

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 0A1 / Noyau 0A1
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

Title - Sujet ADVANCED COMBAT UNIFORMS	
Solicitation No. - N° de l'invitation W6399-12DD74/B	Date 2013-04-05
Client Reference No. - N° de référence du client W6399-12DD74	
GETS Reference No. - N° de référence de SEAG PW-\$\$PR-751-62553	
File No. - N° de dossier pr751.W6399-12DD74	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-05-09	Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Doré, Catherine	Buyer Id - Id de l'acheteur pr751
Telephone No. - N° de téléphone (819) 956-1247 ()	FAX No. - N° de FAX (819) 956-5454
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: 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
6B1, Place du Portage
Gatineau, Québec K1A 0S5

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

This cancels and supersedes the previous request for proposal W6399-12DD74/A, dated April 19, 2012 which was due June 26, 2012 at 2 p.m.

PART 1 - GENERAL INFORMATION

1. SECURITY REQUIREMENT
2. REQUIREMENT
3. DEBRIEFINGS

PART 2 - BIDDER INSTRUCTIONS

1. STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS
2. SUBMISSION OF BIDS
3. ENQUIRIES - BID SOLICITATION
4. APPLICABLE LAWS
5. TRANSPORTATION COSTS INFORMATION

PART 3 - BID PREPARATION INSTRUCTIONS

1. BID PREPARATION INSTRUCTIONS

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. EVALUATION PROCEDURES
2. BASIS OF SELECTION
3. CONTRACT FINANCIAL SECURITY
4. SECURITY DEPOSIT DEFINITION

PART 5 - CERTIFICATIONS

1. MANDATORY CERTIFICATIONS PRECEDENT TO CONTRACT AWARD
2. ADDITIONAL CERTIFICATIONS PRECEDENT TO CONTRACT AWARD
3. ADDITIONAL CERTIFICATIONS REQUIRED WITH THE BID

PART 6 - RESULTING CONTRACT CLAUSES

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

Solicitation No. - N° de l'invitation

W6399-12DD74/B

Amd. No. - N° de la modif.

File No. - N° du dossier

pr751W6399-12DD74

Buyer ID - Id de l'acheteur

pr751

CCC No./N° CCC - FMS No/ N° VME

W6399-12DD74

LIST OF ANNEXES

ANNEX A - REQUIREMENT

1. TECHNICAL REQUIREMENT
2. ADDRESS
3. DELIVERABLES
4. "AS AND WHEN REQUESTED" QUANTITIES-SPECIAL SIZES
5. OPTION QUANTITIES

PART 1 - GENERAL INFORMATION

1. SECURITY REQUIREMENT

There is no security requirement associated with the requirement.

2. REQUIREMENT

The "Requirement" is detailed under Annex A of the resulting contract clauses.

3. DEBRIEFINGS

After contract award, 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 of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

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 (2012-11-19) 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: sixty (60) calendar days

Insert: one hundred and twenty (120) calendar days

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.

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 questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

4. APPLICABLE LAWS

Solicitation No. - N° de l'invitation

W6399-12DD74/B

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pr751W6399-12DD74

Buyer ID - Id de l'acheteur

pr751

CCC No./N° CCC - FMS No/ N° VME

W6399-12DD74

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.

5. 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

1. BID PREPARATION INSTRUCTIONS

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

Section I - Technical Bid (3 hard copies)

Section II - Financial Bid (1 hard copy)

Section III - Certifications (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) <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 (reference Part 4, Evaluation Procedures, 1.1.1 Mandatory Technical Criteria).

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Goods and Services Tax (GST) or Harmonized Sales Tax (HST) is to be shown separately, if applicable.

1.1 Exchange Rate Fluctuation

C3011T 2010/01/11 Exchange Rate Fluctuation

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

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 will evaluate the bids.

(c) The evaluation team will determine first if there are three (3) 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 three 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.

1.1 TECHNICAL EVALUATION

1.1.1 MANDATORY TECHNICAL CRITERIA

As part of the technical evaluation, to confirm a Bidder's capability of meeting the technical requirements, the information detailed in Annex C must be provided with the bid at time and place of bid closing. Failure to submit the required information within the specified time frame will result in the bid being declared non-responsive.

1.2 FINANCIAL EVALUATION

1.2.1 MANDATORY FINANCIAL CRITERIA

- a. The Bidder must submit firm unit prices in Canadian dollars, GST/HST extra, DDP (300 km from the National Capital Region (NCR), Ottawa, Ontario) 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.

1.2.2 SACC MANUAL CLAUSE

A9033T 2012/07/16 Financial Capability

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.

The responsive bid with the lowest evaluated aggregate price will be recommended for award of a contract (1 contract only). Evaluation will be established using the firm quantities for the all items, including 100% of the option quantities and 100% of the “as and when requested” quantities.

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 unexpired, 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. 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

Bidders must provide the required certifications and related documentation to be awarded a contract. Canada will declare a bid non-responsive if the required certifications and related documentation are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify the bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications, to provide the related documentation or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

1. MANDATORY CERTIFICATIONS REQUIRED PRECEDENT TO CONTRACT AWARD

1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies as per section 01 of Standard Instructions 2003, for himself and his affiliates, to be in compliance with the Code of Conduct and Certifications clause of the Standard instructions. The related documentation therein required will help Canada in confirming that the certifications are true.

2. ADDITIONAL CERTIFICATIONS PRECEDENT TO CONTRACT AWARD

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

2.1 FEDERAL CONTRACTORS PROGRAM - CERTIFICATION

2.1.1 FEDERAL CONTRACTORS PROGRAM - \$200,000 OR MORE

1. The Federal Contractors Program (FCP) requires that some suppliers, including a supplier who is a member of a joint venture, bidding for federal government contracts, valued at \$200,000 or more (including all applicable taxes), make a formal commitment to implement employment equity. This is a condition precedent to contract award. If the Bidder, or, if the Bidder is a joint venture and if any member of the joint venture, is subject to the FCP, evidence of its commitment must be provided before the award of the Contract.

Suppliers who have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive government contracts over the threshold for solicitation of bids as set out in the *Government Contract Regulations*. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

2. If the Bidder does not fall within the exceptions enumerated in 3.(a) or (b) below, or does not have a valid certificate number confirming its adherence to the FCP, the Bidder must fax (819-953-8768) a copy of the signed form LAB 1168, Certificate of Commitment to Implement Employment Equity, <http://www.servicecanada.gc.ca/cgi-bin/search/eforms/index.cgi?app=profile&form=lab1168&dept=sc&lang=e> to the Labour Branch of HRSDC.

3. The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- (a) () is not subject to the FCP, having a workforce of less than 100 full time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- (b) () is not subject to the FCP, being a regulated employer under the *Employment Equity Act*, S.C. 1995, c. 44;
- (c) () is subject to the requirements of the FCP, having a workforce of 100 or more full time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC, (having not bid on requirements of \$200,000 or more), in which case a duly signed certificate of commitment is attached;
- (d) () is subject to the FCP, and has a valid certificate number as follows: _____ (e.g. has not been declared an ineligible contractor by HRSDC).

Further information on the FCP is available on the following HRSDC Website:

<http://www.hrsdc.gc.ca/en/labour/equality/fcp/index.shtml>

3. **ADDITIONAL CERTIFICATIONS REQUIRED WITH THE BID**

Bidders must submit the following duly completed certifications with their bid.

3.1 CANADIAN CONTENT CERTIFICATION

SACC MANUAL CLAUSE

A3050T 2010/01/11 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:

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 goods 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.

PART 6 - RESULTING CONTRACT CLAUSES

1. **SECURITY REQUIREMENT**

There is no security requirement associated with the requirement.

2. **REQUIREMENT**

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

3. **STANDARD CLAUSES AND CONDITIONS**

All instructions, 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.

3.1 General Conditions

2010A (2013/03/21), General Conditions - Goods (Medium complexity) apply to and form part of the Contract.

4. **TERM OF CONTRACT**

4.1 Delivery Date

Delivery Required (Desirable) - Firm Quantity

All firm deliverables are requested complete by September 2013.

Item 1 - Delivery - Firm Quantity - Phased

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

Item 2 - Delivery - Firm Quantity - Phased

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

Item 3 - Delivery - Firm Quantity - Phased

The first delivery must be made within _____ calendar days from the 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.

Item 7, 10, 13 and 16 - Delivery - Option Quantity

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 and the quantity must be _____ units. The balance must be shipped at a rate of _____ units weekly after the first delivery until completion of the option quantity.

Item 8, 11, 14 and 17 - Delivery - Option Quantity

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 and the quantity must be _____ units. The balance must be shipped at a rate of _____ units weekly after the first delivery until completion of the option quantity.

Item 9, 12, 15 and 18 - Delivery - Option Quantity

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 and the quantity must be _____ units. The balance must be shipped at a rate of _____ pairs weekly after the first delivery until completion of the option quantity.

4.1.1 Shipping Instructions - Delivery at Destination

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

- (a) Delivered Duty Paid (DDP) (300 km from the NCR, Ottawa, Ontario) Incoterms 2000 for shipments from commercial contractor.

4.1.2 Packaging - Individual

Each garment must be folded and packaged individually. The package must consist of a polyethylene (or other transparent film) bag or envelope, made of material not less than one (1) mil thickness. The bags must be taped or stapled to effect closure and must 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.

4.1.3 Packaging - Quantity

For standard sizes, 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) must not exceed 1.5 meters (59 inches) and the box size and content quantity must remain the same for the duration of the contract;
- (c) Maximum weight of the box and contents must 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.

4.2 SACC Manual Clauses

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

5. AUTHORITIES

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Catherine Doré
 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 : 819-956-1247 Facsimile: 819-956-5454
 E-mail address: catherine.dore@tpsgc-pwgc.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.

5.2 Technical Authority

The Technical Authority for this Contract is:

Mailing/Shipping Address

(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.

5.3 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. PAYMENT

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 Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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.

6.2 SACC Manual Clauses

H1001C 2008/05/12 Multiple Payments

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
Canadian Special Operations Forces Command (CANSOFCOM)
COS FD
101 Colonel By Drive
Ottawa, ON K1A 0K2
Attn: Sanela Braunstein (CANSOFCOM Procurement)

(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.

8. CERTIFICATIONS

8.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation 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.

8.2 SACC Manual Clauses

A3060C 2008/05/12 Canadian Content Certification

9. APPLICABLE LAWS

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

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 2010A (2013/03/21), General Conditions - Goods (Medium Complexity);
- c) Annex A, Requirement;
- d) Annex B, Performance and Technical Specifications for the Advanced Combat Uniform;
- e) the Contractor's bid dated _____

11. DEFENCE CONTRACT

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

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.

13. 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 of the Design Change/Deviation form DND 672 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.

14. PLANT CLOSING

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

2013-2014

Summer Holiday FROM _____ TO _____

Christmas Holiday FROM _____ TO _____

2014-2015

Summer Holiday FROM _____ TO _____

Christmas Holiday FROM _____ TO _____

Solicitation No. - N° de l'invitation

W6399-12DD74/B

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

pr751

Client Ref. No. - N° de réf. du client

W6399-12DD74

File No. - N° du dossier

pr751W6399-12DD74

CCC No./N° CCC - FMS No/ N° VME

2015-2016

Summer Holiday FROM _____ TO _____

Christmas Holiday FROM _____ TO _____

2016-2017

Summer Holiday FROM _____ TO _____

Christmas Holiday FROM _____ TO _____

2017-2018

Summer Holiday FROM _____ TO _____

Christmas Holiday FROM _____ TO _____

15. PLANT LOCATION

Items will be manufactured at: _____

16. 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.

17. OVERSHIPMENT

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

18. PRE-PRODUCTION SAMPLES

1. The Contractor must provide pre-production samples of the three garments to the Technical Authority for acceptance within 60 calendar days from date of contract award as follows:

- (a) ACU Direct Action (DA) Shirts - Sizes X-Small, Small, Medium, Large, X-Large, XX-Large and XXX-Large;
- (b) ACU Special Reconnaissance (SR) Shirts - Sizes X-Small, Small, Medium, Large, X-Large, XX-Large and XXX-Large; and
- (c) ACU Pants - Waist sizes [cm (in)] 68.6 (28), 73.5 (30), 78.4 (32), 83.3 (34), 88.2 (36), 93.1 (38), 98.0 (40), and 102.9 (42).

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

2. If the first samples are rejected, the Contractor must submit the second samples within 30 calendar days of notification of rejection from the Technical Authority.

3. If the second samples are rejected, the Contractor must submit the third samples within 30 calendar days of notification of rejection from the Technical Authority.

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

5. The Contractor must provide the samples, and a copy of the inspection and test reports or certificates of compliance, to the Technical Authority, transportation charges prepaid, and without charge to Canada. The samples submitted by the Contractor will remain the property of Canada. A copy of the test reports and certificates of compliance must also be provided to the Contracting Authority.

The conformance to specified materials (Annex B, Section 3.3) must be proven by the Contractor by submitting test results from accredited independent laboratories familiar with textile testing or certification of compliance from the material manufacturer with the pre-production samples. Testing carried out by university textile testing laboratories is also acceptable. Should a non-accredited laboratory be required for specific tests, approval must be sought and received in writing from the DND TA in advance.

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

7. 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 samples are acceptable. Any production of items before sample acceptance will be at the sole risk of the Contractor.

8. Rejection by the Technical Authority of the third samples submitted by the Contractor for failing to meet the contract requirements, will be grounds for termination of the Contract for default.

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

CERTIFICATE OF COMPLIANCE - DEFINITION

A Certificate of Compliance (C of C) is a written statement from the material manufacturer guaranteeing the full compliance of the product to the specification, or portion of the specification, referenced. This document must be on official company stationery; it must be within six months of the solicitation posting date; it must make reference to the applicable specification and have the original signature of the company's designated representative. Canada reserves the right to verify the statements made in the C of C. Full test results, demonstrating the product's compliance, will be accepted in lieu of a C of C.

QUALITY ASSESSMENT

The material of the pre-production sample garments must be free of imperfections or blemishes that may adversely affect its appearance, quality or serviceability. 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, 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.

19. SPECIFICATIONS AND STANDARDS

19.1 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

Telephone: (819) 956-0425 or 1-800-665-CGSB (Canada only)

Fax: (819) 956-5740

E-mail: ncr.cgsb-ongc@pwgsc-tpsgc.gc.ca

CGSB Website: <http://www.tpsgc-pwgsc.gc.ca/ongc-cgsb/index-eng.html>

20. 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 the Department of National Defence (DND) with Advanced Combat Uniform (ACU) that includes one Direct Action (DA) Shirt with elbow pads, one Special Reconnaissance (SR) Shirt with elbow pads and Pants with knee pads in standard and special sizes in accordance with the Annex B-Performance and Technical Specifications for the Advance Combat Uniform.

The Contractor must provide to the Technical Authority (TA), in English, a list of 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. ADDRESS

300 km from the NCR, Ottawa, Ontario. To be advised at contract.

3. DELIVERABLES

CONTRACT QUANTITY

Firm Quantity

Item	Description	Firm Quantity	Unit of Issue	Firm Unit Price, DDP, Transportation costs included, HST extra
1	Direct Action Shirt	3,800	Each	\$ _____
2	Special Reconnaissance Shirt	3,800	Each	\$ _____
3	Pant	3,800	Each	\$ _____

The size roll will be provided at contract award.

“As and When Requested” Quantities - Special sizes

Item	Description	Unit of Issue	Year	Estimated Quantity	Firm Unit Price, DDP, Transportation costs included, HST extra
4	Direct Action Shirt Special sizes	Each	1	200	\$ _____
			2	100	\$ _____
			3	100	\$ _____
			4	100	\$ _____
			5	100	\$ _____
5	Special	Each	1	200	\$ _____

Item	Description	Unit of Issue	Year	Estimated Quantity	Firm Unit Price, DDP, Transportation costs included, HST extra
	Reconnaissance Shirt Special sizes		2	100	\$ _____
			3	100	\$ _____
			4	100	\$ _____
			5	100	\$ _____
			6	Pant Special sizes	Each
			2	100	\$ _____
			3	100	\$ _____
			4	100	\$ _____
			5	100	\$ _____

Year 1: Within 12 months from contract award date.

Year 2: 13 to 24 months from contract award date.

Year 3: 25 to 36 months from contract award date.

Year 4: 37 to 48 months from contract award date.

Year 5: 49 to 60 months from contract award date.

OPTION 1

Item	Description	Estimated Quantity	Unit of Issue	Firm Unit Price, DDP, Transportation costs included, HST extra
7	Direct Action Shirt	1,900	Each	\$ _____
8	Special Reconnaissance Shirt	1,900	Each	\$ _____
9	Pant	1,900	Each	\$ _____

OPTION 2

Item	Description	Estimated Quantity	Unit of Issue	Firm Unit Price, DDP, Transportation costs included, HST extra
10	Direct Action Shirt	1,900	Each	\$ _____
11	Special Reconnaissance Shirt	1,900	Each	\$ _____
12	Pant	1,900	Each	\$ _____

OPTION 3

Item	Description	Estimated Quantity	Unit of Issue	Firm Unit Price, DDP, Transportation costs included, HST extra
13	Direct Action Shirt	1,900	Each	\$ _____
14	Special Reconnaissance Shirt	1,900	Each	\$ _____
15	Pant	1,900	Each	\$ _____

OPTION 4

Item	Description	Estimated Quantity	Unit of Issue	Firm Unit Price, DDP, Transportation costs included, HST extra
16	Direct Action Shirt	1,900	Each	\$ _____
17	Special Reconnaissance Shirt	1,900	Each	\$ _____
18	Pant	1,900	Each	\$ _____

4. "AS AND WHEN REQUESTED" QUANTITIES - SPECIAL SIZES - Identified as Items 4 to 6

The term "special sizes" is defined as garments whose sizes are outside the Scale of Measurements (see 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. 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.

Under this Contract, the Contractor is required to provide certain goods (special sizes) 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. DND reserves the right to order standard sizes in lieu of special sizes where the demand for special sizes is not utilized.

The quantity of "as and when requested" goods specified under items 4 to 6 is only an approximation of requirements.

Solicitation No. - N° de l'invitation

W6399-12DD74/B

Client Ref. No. - N° de réf. du client

W6399-12DD74

Amd. No. - N° de la modif.

File No. - N° du dossier

pr751W6399-12DD74

Buyer ID - Id de l'acheteur

pr751

CCC No./N° CCC - FMS No/ N° VME

Order for “as and when requested” quantities will be made on Form 942.

The period for placing “as and when requested” orders will be within 60 months from contract award date.

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.

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) 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 7 to 18

The Contractor grants to Canada the irrevocable option to acquire the goods described above under the same terms and conditions and at the prices stated in the Contract. The option 1 and 2 may only be exercised for a minimum of 950 units up to a maximum of 1,900 units per item by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment. The option 3 and 4 may only be exercised for a maximum of 1,900 units per item by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option 1 within 24 months after contract award date by sending a written notice to the Contractor.

The Contracting Authority may exercise the option 2 within 36 months after contract award date by sending a written notice to the Contractor.

The Contracting Authority may exercise the option 3 within 48 months after contract award date by sending a written notice to the Contractor.

The Contracting Authority may exercise the option 4 within 60 months after contract award date by sending a written notice to the Contractor.

Only one amendment per option may be issued to exercise this option.

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

**PERFORMANCE AND TECHNICAL SPECIFICATIONS
FOR THE
ADVANCED COMBAT UNIFORM (ACU)**

1.0 SCOPE

1.1. Scope

This specification defines the performance and technical requirements for the Advanced Combat Uniform (ACU).

2.0 GENERAL

2.1. Applicable Documents

The following documents form part of this specification to the extent specified herein, and are supportive of the specification when referenced; all other document references are to be considered supplemental information only. Unless otherwise specified, the issue or amendment of documents effective for this contract must be those in effect on the date of contract award. In the event of a conflict between the documents referenced herein and the contents of the specification, then the contents of the specification must take precedence.

- FED-STD-595C - Colors Used in Government Procurement (www.everyspec.com)
- ASTM D6413M-11ae1 - Test Method for Flame Resistance of Textiles (Vertical Test) (www.astm.org)
- NFPA 2112 (2012) - Standard on Flame Resistant Garments for Protection of Industrial Personnel Against Flash Fire (www.nfpa.org)
- EN 1149-3:2004 - Electrostatic Properties of Protective Clothing: Measurements of Surface Resistivity (www.cen.eu)
- ASTM F1930-11 - Standard Test Method for Evaluation of Flame Resistant Clothing for Protection against Flash Fire Simulations using an Instrumented Manikin (www.astm.org)

2.2. Definitions

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.
Earth Tone	By definition, earth tone is considered a color scheme that draws from a color palette of browns, tans, grays, greens, oranges, whites and some reds. The colors in an earth tone scheme are muted and flat in an emulation of the natural colors found in soils, moss, trees and rocks. For the purpose of this specification, the earth tone color (where specified) must be based on the predominantly brown, tan and gray color series (lusterless) within FED STD-595C, where those colors do not include any elements of orange, red and white.
Gusseted Underarms/Seat	Additional piece of fabric inserted into the seam to add breadth or reduce stress on tight-fitting clothing and shape the clothing to fit the body of the wearer
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®.
Modacrylic	Modified acrylic fibers made from acrylonitriles with large amounts of other polymers added to make the copolymers.
MULTICAM®	A proprietary design for a computer generated digital camouflage pattern patented

	by Crye Precision Inc.
No-melt, no-drip fire resistant materials	Fabrics that will not ignite or fuse to the skin when exposed to flame, and will self-extinguish when the ignition source is removed.
Slide Fastener	A fastener for locking together two toothed edges by means of a sliding tab, commonly referred to as a zipper.
X-STATIC®	An anti-microbial, odor control, anti-static additive manufactured by Noble Biomaterials.

2.3. Layout Sketches

Schematic layout sketches for the ACU Shirts and Pant 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, colour scheme or form of the final garments. The following sketches are included in Appendix 1:

- (a) Figure 1: ACU DA Shirt;
- (b) Figure 2: ACU SR Shirt; and
- (c) Figure 3: ACU Pant.

3.0 **REQUIREMENTS**

3.1. Garments

The performance and technical requirements for the ACU are detailed in the following sections. The ACU consists of three (3) garments as follows:

- (a) ACU Direct Action (DA) Shirt;
- (b) ACU Special Reconnaissance (SR) Shirt; and
- (c) ACU Pant.

3.2. Material

The following applies:

- (a) The garments, except the torso of the ACU DA shirt (see Figure 1) and portions of the ACU Pant (see Figure 3), must be constructed of a composite rip-stop, inherently flame-resistant (FR) 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. 64% Lenzing FR® Rayon;
 - b. 24% Para-Aramid;
 - c. 10% Nylon; and
 - d. 2% Static-Control™;
 - ii. Standards:
 - a. Flame and thermal protection in accordance with ASTM D6413M-11a e1 and NFPA 2112 (2012);
 - b. Anti-Static in accordance with EN 1149-3:2004; and

- c. Flash fire exposure in accordance with ASTM F1930-11 manikin test: Afterflame, Afterglow, Char Length and Melt/Drip), with a resulting whole body burn (2nd and 3rd degree) of no more than 27%;
 - iii. Weight - A nominal weight of 220 grams per square meter (6.5 ounces per square yard) with a variation of no more than $\pm 5\%$ between production lots;
- (b) The torso of the ACU DA shirt (see Figure 1) must be constructed of a light-weight, moisture wicking, flame-resistant, no melt no drip knit material in a non-florescent earth-tone colour, with the following properties:
- i. Composition ($\pm 1\%$ each):
 - a. 80% Modacrylic;
 - b. 15% Viscose; and
 - c. 5% X-STATIC®;
 - ii. Standards:
 - a. Flammability in accordance with ASTM D6413M-11ae1; and
 - b. No melt no drip in accordance with ASTM D6413M-11ae1;
 - iii. Weight - A nominal weight of 176 grams per square meter (5.2 ounces per square yard) with a variation of no more than $\pm 5\%$ between production lots;
- (c) The area above the knees and at the back of the waist of the ACU Pant (see Figure 3) must be constructed of a light-weight, moisture wicking, flame retardant stretch material in a non-florescent earth-tone colour;
- (d) The thread, used in the manufacture of the ACU shirts and pant must be made of no-melt, no-drip fire resistant materials;
- (e) All other materials, including buttons, slide fasteners, backing and fill material, cords and fasteners, used in the manufacture of the ACU shirts and pant must be made of no-melt, no-drip materials; and
- (f) All material must be sourced and supplied by the Contractor.

3.3. Sizing

The garments must be available in the following sizes:

Table 1: DA Shirt

Size	Chest [cm(in)]		Fits Height [cm(in)]
Extra-Small (XS)	71.1 - 80.9 (29 - 33)	Short	162.6 - 172.7 (64 - 68)
		Regular	172.7 - 182.9 (68 - 72)
		Long	182.9 - 193.0 (72 - 76)
		Extra-Long	193.0 - 198.1 (76 - 78)
Small(S)	83.8 - 94.0 (33-37)	Short	162.6 - 172.7 (64 - 68)
		Regular	172.7 - 182.9 (68 - 72)
		Long	182.9 - 193.0 (72 - 76)
		Extra-Long	193.0 - 198.1 (76 - 78)
Medium(M)	96.5 - 104.1 (38 - 41)	Short	162.6 - 172.7 (64 - 68)
		Regular	172.7 - 182.9 (68 - 72)
		Long	182.9 - 193.0 (72 - 76)
		Extra-Long	193.0 - 198.1 (76 - 78)
Large (L)	106.7 - 114.3	Short	162.6 - 172.7 (64 - 68)

	(42 - 45)	Regular	172.7 - 182.9 (68 - 72)
		Long	182.9 - 193.0 (72 - 76)
		Extra-Long	193.0 - 198.1 (76 - 78)
Extra-Large (XL)	116.8 - 124.5 (46 - 49)	Short	162.6 - 172.7 (64 - 68)
		Regular	172.7 - 182.9 (68 - 72)
		Long	182.9 - 193.0 (72 - 76)
Extra-Extra-Large (XXL)	127.0 - 134.6 (50 - 53)	Short	162.6 - 172.7 (64 - 68)
		Regular	172.7 - 182.9 (68 - 72)
		Long	182.9 - 193.0 (72 - 76)
Extra-Extra-Extra-Large (XXXL)	134.6 - 144.8 (53 - 57)	Short	162.6 - 172.7 (64 - 68)
		Regular	172.7 - 182.9 (68 - 72)
		Long	182.9 - 193.0 (72 - 76)
		Extra-Long	193.0 - 198.1 (76 - 78)

Table 2: SR Shirt

Size	Chest [cm(in)]		Fits Height [cm(in)]
Extra-Small (XS)	71.1 - 80.9 (29 - 33)	Short	162.6 - 172.7 (64 - 68)
		Regular	172.7 - 182.9 (68 - 72)
		Long	182.9 - 193.0 (72 - 76)
Small(S)	83.8 - 94.0 (33-37)	Short	162.6 - 172.7 (64 - 68)
		Regular	172.7 - 182.9 (68 - 72)
		Long	182.9 - 193.0 (72 - 76)
Medium(M)	96.5 - 104.1 (38 - 41)	Short	162.6 - 172.7 (64 - 68)
		Regular	172.7 - 182.9 (68 - 72)
		Long	182.9 - 193.0 (72 - 76)
Large (L)	106.7 - 114.3 (42 - 45)	Short	162.6 - 172.7 (64 - 68)
		Regular	172.7 - 182.9 (68 - 72)
		Long	182.9 - 193.0 (72 - 76)
Extra-Large (XL)	116.8 - 124.5 (46 - 49)	Short	162.6 - 172.7 (64 - 68)
		Regular	172.7 - 182.9 (68 - 72)
		Long	182.9 - 193.0 (72 - 76)
Extra-Extra-Large (XXL)	127.0 - 134.6 (50 - 53)	Short	162.6 - 172.7 (64 - 68)
		Regular	172.7 - 182.9 (68 - 72)
		Long	182.9 - 193.0 (72 - 76)
Extra-Extra-Extra-Large (XXXL)	134.6 - 144.8 (53 - 57)	Short	162.6 - 172.7 (64 - 68)
		Regular	172.7 - 182.9 (68 - 72)
		Long	182.9 - 193.0 (72 - 76)

Table 3: Pants

Size [cm(in)]	Waist [cm(in)]		Inseam [cm(in)]
68.6 (28)	68.6 - 78.7 (28 - 31)	Short	67.3 - 74.9 (26.5 - 29.5)
		Regular	74.9 - 82.6 (29.5 - 32.5)
		Long	82.6 - 90.2 (32.5 - 35.5)
73.5 (30)	73.5 - 80.9 (30 - 33)	Short	67.3 - 74.9 (26.5 - 29.5)
		Regular	74.9 - 82.6 (29.5 - 32.5)
		Long	82.6 - 90.2 (32.5 - 35.5)
78.4 (32)	78.4 - 85.8 (32 - 35)	Short	67.3 - 74.9 (26.5 - 29.5)

		Regular	74.9 - 82.6 (29.5 - 32.5)
		Long	82.6 - 90.2 (32.5 - 35.5)
83.3 (34)	83.3 - 90.7 (34 - 37)	Short	67.3 - 74.9 (26.5 - 29.5)
		Regular	74.9 - 82.6 (29.5 - 32.5)
		Long	82.6 - 90.2 (32.5 - 35.5)
88.2 (36)	88.2 - 90.7 (36 - 39)	Short	67.3 - 74.9 (26.5 - 29.5)
		Regular	74.9 - 82.6 (29.5 - 32.5)
		Long	82.6 - 90.2 (32.5 - 35.5)
93.1 (38)	93.1 - 100.5 (38 - 41)	Short	67.3 - 74.9 (26.5 - 29.5)
		Regular	74.9 - 82.6 (29.5 - 32.5)
		Long	82.6 - 90.2 (32.5 - 35.5)
98.0 (40)	98.0 - 105.4 (40 - 43)	Short	67.3 - 74.9 (26.5 - 29.5)
		Regular	74.9 - 82.6 (29.5 - 32.5)
		Long	82.6 - 90.2 (32.5 - 35.5)
102.9 (42)	102.9 - 110.3 (42 - 45)	Short	67.3 - 74.9 (26.5 - 29.5)
		Regular	74.9 - 82.6 (29.5 - 32.5)
		Long	82.6 - 90.2 (32.5 - 35.5)

3.4. Similarity of Manufacture

The ACU shirts (DA and SR) and pant, based on the details within this specification, must be of the same make, colour, 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 shirt or size 34-36 pant and are for the purpose of describing the approximate scale of the features. Final size grading to the sizes specified above, including dimensions of the individual garments features, to be completed prior to production.

3.6. Advanced Combat Uniform - Direct Action (DA) Shirt

The requirements for the ACU DA Shirt are detailed in the following sections.

3.6.1. General Features

The ACU DA Shirt must:

- (a) Have double-stitched seams throughout;
- (b) Have slide fasteners, hook and loop fasteners and stitching that are colour coordinated with the MULTICAM® camouflage pattern;
- (c) Permit single-hand operation of fasteners, pocket flaps and elbow pad insertion and removal;
- (d) Have no raised seams where this type of equipment would apply acute pressure including the shoulders, waist and back when the user is wearing generic body armour and/or a tactical load bearing vest;
- (e) **Not** utilize snaps or buttons in any area of the design; and
- (f) Have an attached label that includes:

- i. Date of manufacture;
- ii. Size; and
- iii. Washing instructions.

3.6.2. Design Features

The ACU DA Shirt is to be designed in accordance with the following requirements:

- (a) **General** - The ACU DA Shirt must consist of a pull-over shirt with full-length arms as follows:
 - i. Have shoulders, arms, collar, neck and pockets/flaps constructed of the MULTICAM® camouflage pattern material in accordance with Section 3.2 (a);
 - ii. Include a v-shaped band of the MULTICAM® camouflage pattern material that extends below the collar in the front of the shirt down to the mid-chest area below the slide fastener for the collar (see Figure 1) as follows:
 - a. At least the width of the collar at the top of the band; and
 - b. Nominally 75 mm (3 in) wide at the base below the slide fastener;
 - iii. Have a torso that is made of a the a light-weight, moisture wicking, flame-resistant, no melt no drip knit material in accordance with Section 3.2 (b) that extends under the armpit for ventilation; and
 - iv. **Not** have an adjustable bottom hem;
- (b) **Collar** - The ACU DA Shirt collar must:
 - i. Be a high flat collar that extends 76-102 mm (3-4 in) above the shoulders;
 - ii. Be double layer construction of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards;
 - iii. Have a slide fastener centered in the front of the collar between the shoulders as follows:
 - a. Sized to permit donning/doffing the shirt (variation of length between shirt sizes is permitted);
 - b. Opens downward (neck to waist) such that the collar is open at the top when the slide fastener is in the lower position;
 - c. Has a low-profile design on the inner side of the fastener that does not have any sharp or protruding surfaces that would cause irritation to the wearer; and
 - d. Has a placket of material of a soft design at the top of the slide fastener that covers the slide in the upper position to prevent chaffing the neck of the wearer;
- (c) **Sleeve Pockets** - The ACU DA Shirt must:
 - i. Have an external pleated pocket made of the MULTICAM® camouflage pattern material with the finished surface facing outwards on the upper exterior portion of each sleeve in the shoulder area, with the lower portion of the pocket just above the elbow area with nominal dimensions as follows:
 - a. 152 mm (6 in) wide; and
 - b. 178 mm (7 in) high;
 - ii. Have a double-layer flap across the top of each pocket as follows:
 - a. Made of the MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outwards;
 - b. Be the width of the pocket and nominally 64 mm (2.5 in) high, and open upwards
 - c. Secured using hook and loop fasteners, with the male patch attached to the underside of the flap that contacts the female patch on the exterior of the pocket;
 - iii. Have hook and loop fastener female patches, of the same design as the patches on the ACU SR shirt, bonded and sewn to the exterior of each sleeve pocket and flap (left and right) with nominal dimensions as follows:
 - a. Pocket patches 102 mm (4 in) wide by 140 mm (5.5 in) high; and

- b. Flap patches 102 mm (4 in) wide by 50 mm (2 in) high;
 - iv. Have total four (4) strong elasticized loops on each sleeve pocket as follows:
 - a. Two (2) loops on the inner side of the pocket and two (2) loops on the outer side of the pocket;
 - b. Constructed of 25 mm (1 in) wide flat elasticized material folded in half to form the loop that is 25 mm (1 in) wide and 19 mm (0.75 in) in diameter;
 - c. Stitched into place between the outer layer of the shirt and the pocket material in a manner that provides strength without being bulky (no plastic or metal fasteners permitted);
 - d. Lower loops centered at 45 mm (1.75 in) from the bottom of the pocket; and
 - e. Upper loops centered at 108 mm (4.25 in) from the bottom of the pocket.
 - v. Have one (1) internal pen pocket within each sleeve pocket made of the MULTICAM® camouflage pattern material;
- (d) **Cuffs** - The ACU DA Shirt cuff must:
 - i. Have a double-layer construction made of the MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outwards, that extends nominally 50 mm (2 in) from the sleeve opening; and
 - ii. Have a cuff adjuster on each cuff of a low profile hook and loop fastener construction as follows:
 - a. Male patch attached to a double-layer tab of the MULTICAM® camouflage pattern material (with the finished material surface facing inwards and outwards);
 - b. The MULTICAM® camouflage pattern material tab is in turn attached to the double cuff such that it closes the cuff outward to inward; and
 - c. Female patch stitched onto the double cuff and extends nominally half the circumference of the sleeve opening;
- (e) **Elbow Pads** - The ACU DA Shirt must:
 - i. Have an external pouch made of the MULTICAM® camouflage pattern material with the finished material surface facing outwards at each elbow that extends from the elbow to the wrist suitable for holding a removable elbow/forearm pad as follows:
 - a. The pouch must be stitched to the MULTICAM® camouflage arm material to form a closed perimeter pouch that has a width at the elbow to accommodate the elbow pad, and tapered toward each end in order to hold the elbow pad into place;
 - b. Has a central opening to insert the elbow pad that accommodates the exposure of the hard shell cap of the elbow pad to the exterior of the pouch; and
 - c. Secures the elbow pad into place using hook and loop fasteners;
 - ii. Have elbow pads for each elbow that fit into the external pouches as follows:
 - a. Easily removable/replaceable by the user without having to remove the shirt;
 - b. Made of a semi-rigid, flexible foam material that is anatomically formed to the shape of the elbow and forearm that is nominally 229 mm (9 in) in height and 102 mm (4 in) in width at the elbow, and tapered toward each end;
 - c. Reinforced with an externally bonded synthetic material; and
 - d. Has an integral polymer hard shell elbow cap that is resistant to abrasion.

3.7. Advanced Combat Uniform - Special Reconnaissance (SR) Shirt

The requirements for the ACU SR Shirt are detailed in the following sections.

3.7.1. General Features

The ACU SR Shirt must:

- (a) Have double-stitched seams throughout;
- (b) Have slide fasteners, hook and loop fasteners and stitching that are colour coordinated with the MULTICAM® camouflage pattern material;
- (c) Permit single-hand operation of fasteners, pocket flaps and elbow pad insertion and removal; and
- (d) Have an attached label that includes:
 - i. Date of manufacture;
 - ii. Size; and
 - iii. Washing instructions.

3.7.2. Design Features

The ACU SR Shirt is to be designed in accordance with the following requirements:

- (a) **General** - The ACU SR Shirt must consist of a full-length front opening shirt with full-length arms constructed entirely of the MULTICAM® camouflage pattern material;
- (b) **Collar** - The ACU SR Shirt collar must:
 - i. Be a high flat collar that extends 76-102 mm (3-4 in) above the shoulders;
 - ii. Be double layer construction of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards;
 - iii. Have an overlapping flap to secure the collar at the front with hook and loop fasteners as follows:
 - a. Female patch bonded and sewn to the exterior of one flap; and
 - b. Male patch bonded and sewn to the interior of the opposing flap such that it engages the female patch on the other flap;
 - c. Have a placket of material of a soft design on the inner side of the overlapping flap to prevent the hook and loop fastener from chaffing the neck/chest of the wearer;
- (c) **Front Full-Length Fasteners** - The ACU SR Shirt must:
 - i. Have an open front down the center of the shirt with reinforced bands on either side of the opening that extend from the overlapping collar flap to the hem and are wide enough to accommodate the buttons as follows:
 - a. The inner shirt band must be on the right side opening of the wearer and be constructed of a double layer of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards; and
 - b. The outer shirt band must be on the left side opening of the wearer and be constructed of a two double layers of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards as follows:
 - 1. The inner double layer must have button holes that match with the location of the corresponding buttons on the inner flap; and
 - 2. The outer double layer must not have button holes in order to conceal the buttons except for the top button which may pass through both layers to reveal the button;
 - ii. Have a front fastening system consisting of five (5) buttons attached to the inner shirt band as follows:
 - a. Top button nominally 25 mm (1 in) below the overlapping collar flap;

- b. Bottom button nominally 152 mm (6 in) above the hem; and
 - c. The remaining three (3) buttons evenly spaced between the top and bottom button;
 - iii. Have buttons that are a nominally 25 mm (1 in) in diameter; and
 - iv. Have two (2) spare buttons sewn inside the shirt (at the waist or inside a pocket);
- (d) **Pockets** - The ACU SR Shirt must have pockets as follows:
- i. **Chest Pocket** - An external pleated pocket on the upper exterior portion of each side of the chest that are as follows:
 - a. Constructed from the MULTICAM® camouflage pattern material with the finished material surface facing outwards area with nominal dimensions as follows:
 - 1. 152 mm (6 in) wide ; and
 - 2. 178 mm (7 in) high;
 - b. Slanted inwards at the top at approximately 30 degrees from vertical and located in the center of the left and right sides of the chest (see Figure 2);
 - c. Accessible from the top and inner side as follows:
 - 1. A double-layer flap across the top of each pocket as follows:
 - a. Made of the MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outwards;
 - b. Be the width of the pocket and nominally 64 mm (2.5 in) high, and open upwards;
 - c. Secured using hook and loop fasteners, with the male patch attached to the underside of the flap that contacts the female patch on the exterior of the pocket; and
 - 2. A vertical slide fastener located on the inward side of the pocket that is nominally 152 mm (6 in) in effective opening length and open upwards (waist to chin motion);
 - ii. **Sleeve Pocket** - An external double layer pleated pocket on the upper exterior portion of each sleeve that is as follows:
 - a. Constructed from two layers of the MULTICAM® camouflage pattern material with the finished material surface facing outwards as follows:
 - 1. The two layers in conjunction with the base sleeve material form two (2) integrated pockets, one above the other, as follows:
 - a. Both pockets nominally 152 mm (6 in) wide by 178 mm (7 in) high;
 - b. The inner pocket is accessible from the top via a double-layer flap across the top of the pocket made of the MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outwards as follows:
 - 1. The width of the pocket and 64 mm (2.5 in) high;
 - 2. Opens upwards; and
 - 3. Secured using hook and loop, with the male patch attached to the underside of the flap that contacts the female patch on the exterior of the pocket;
 - c. The outer pocket is accessible from the side via a vertical slide fastener located on the inward side of the pocket that has a nominal 127 mm (5 in) in effective opening length and opens upwards (elbow to shoulder motion);

- b. Have hook and loop fastener female patches, of the same design as the patches on the ACU DA shirt, bonded and sewn to the exterior of each sleeve pocket and flap (left and right) with nominal dimensions as follows:
 - 1. Pocket patches 102 mm (4 in) wide by 140 mm (5.5 in) high; and
 - 2. Flap patches 102 mm (4 in) wide by 50 mm (2 in) high;
 - c. Have total four (4) strong elasticized loops on each sleeve pocket as follows:
 - 1. Two (2) loops on the inner side of the pocket and two (2) loops on the outer side of the pocket;
 - 2. Constructed of 25 mm (1 in) wide flat elasticized material folded in half to form the loop that is 25 mm (1 in) wide and 19 mm (0.75 in) in diameter;
 - 3. Stitched into place between the outer layer of the shirt and the pocket material in a manner that provides strength without being bulky (no plastic or metal fasteners permitted);
 - 4. Lower loops centered at 45 mm (1.75 in) from the bottom of the pocket; and
 - 5. Upper loops centered at 108 mm (4.25 in) from the bottom of the pocket.
 - d. Have one (1) internal pen pocket within each sleeve pocket made of the MULTICAM® camouflage pattern material;
- (e) **Cuffs** - The ACU SR Shirt cuff must:
- i. Have a double-layer construction made of the MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outwards, that extends nominally 50 mm (2 in) from the sleeve opening; and
 - ii. Have a cuff adjuster on each cuff of a low profile hook and loop fastener construction as follows:
 - a. Male patch attached to a double-layer tab of the MULTICAM® camouflage pattern material (with the finished material surface facing inwards and outwards);
 - b. The MULTICAM® camouflage pattern material tab is in turn attached to the double cuff such that it closes the cuff outward to inward; and
 - c. Female patch stitched onto the double cuff and extends nominally half the circumference of the sleeve opening;
- (f) **Hem** - The ACU SR Shirt must have a bottom hem that is adjustable by means of an integral elastic draw cord;
- (g) **Elbow Pads** - The ACU SR Shirt must:
- i. Have an external pouch made of the MULTICAM® camouflage pattern material with the finished material surface facing outwards at each elbow that extends from the elbow to the wrist suitable for holding a removable elbow/forearm pad that is:
 - a. Secured at the bottom using hook and loop fasteners; and
 - b. Conformed to hold the elbow pad into place;
 - ii. Have elbow/forearm pads for each arm that fit into the external pouches and are:
 - a. Easily removable/replaceable by the user without having to remove the shirt;
 - b. Made of a semi-rigid, flexible foam material that is anatomically formed to the shape of the elbow and forearm that is nominally 229 mm (9 in) in height and 102 mm (4 in) in width at the elbow, and tapered toward each end; and
 - c. Reinforced with an externally bonded material.

3.8. **Advanced Combat Uniform - Pant**

The requirements for the ACU Pant are detailed in the following sections.

3.8.1. General

The ACU Pant must:

- (a) Have double-stitched seams throughout;
- (b) Have slide fasteners, hook and loop fasteners and stitching that are colour coordinated with the MULTICAM® camouflage pattern;
- (c) Permit single-hand operation of fasteners, pocket flaps and knee pads;
- (d) Not utilize snaps or buttons in any area of the design; and
- (e) Have an attached label that includes:
 - i. Date of manufacture;
 - ii. Size; and
 - iii. Washing instructions;

3.8.2. Design

The ACU Pant is to be designed in accordance with the following requirements:

- (a) **General** - The ACU Pant must consist of a full-length pant as follows;
 - i. Constructed of the MULTICAM® camouflage pattern material except where specified;
 - ii. Have a double-layer seat constructed of the MULTICAM® camouflage pattern material; and
 - iii. Have stretch-woven material inserts in accordance with Section 3.2(c) as follows:
 - a. At the knees to accommodate ease of movement when kneeling that is the width of the pant leg (front) and extends from the mid-thigh area to below the knee; and
 - b. At the lower back below the waistband to accommodate ease of movement when bending over that extends the width of the back and is nominally 50 mm (2 in) high at the center of the back and tapers towards the sides;
- (b) **Waist** - The ACU Pant waist must:
 - i. Have an integral waistband that is of double layer construction of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards with nominal dimensions as follows:
 - a. Width of 63 mm (2.5 in) in the center back area; and
 - b. Tapering to 89 mm (3.5 in) at the front;
 - ii. Be padded between the double waistband layers with nominal 3 mm (0.125 in) of a flexible foam material;
 - iii. Have a gusseted crotch area;
 - iv. Have a center front fly as follows:
 - a. Have a slide fastener as follows:
 - 1. Nominal 127 mm (5 in) in length 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 an inner side of a low-profile design that does not have any sharp or protruding surfaces that would cause irritation to the wearer; and
 - 3. Incorporates a placket of the 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 a hook and loop fastener as follows:
 - 1. Include a double layer extension tab (finished material surface facing inwards and outwards) that is made of the MULTICAM® camouflage pattern material and extends from the left side of the fly opening on the waistband;
 - 2. Male patch attached to the waistband on the left side of the fly opening and extends on to the double-layer tab; and
 - 3. Female patch attached to the waistband on the right side of the fly opening;
 - c. The combined effective open length of the slide fastener and the hook and loop securing fastener must be nominally 178 mm (7 in);
 - v. Have a low-profile waist adjustment that utilizes a hook and loop fastener(s) and provides nominally 50 mm (2 in) of waist expansion over the rated size of the pants; and
 - vi. Have a minimum of five (5) belt loops made of a double layer of the MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outwards as follows:
 - a. Two (2) loops in the front of the pants;
 - b. Three (3) loops in the back of the pants;
 - c. Each loops nominally 25 mm (1 in) in width and have an effective belt opening of 63 mm (2.5 in);
 - d. Loops stitched to the waistband at the top and bottom in a manner that provides strength without being bulky and does not utilize plastic or metal fasteners; and
 - e. Incorporate a small loop of material suitable for hanging small items at the bottom of each belt loop as follows:
 - 1. Same width as the belt loop and has an effective nominal diameter of 12 mm (1/2 in);
 - 2. Made of a double layer of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards; and
 - 3. Stitched into or integral with the lower portion of the belt loop below the belt loop stitching;
- (c) **Pockets** - The ACU Pant must have pockets as follows:
- i. **Waist front pocket** - An internal flat pocket beneath the waistband on each front hip that is as follows:
 - a. Constructed from two pieces of the MULTICAM® camouflage pattern material with the finished material surfaces facing the inside of the pocket, which are suspended from the waistband and pant shell at the top of the pocket;
 - b. Be nominally 203 mm (8 in) wide at the top, 152 mm (6 in) wide at the bottom, and 228 mm (9 in) deep;
 - c. Accessible from an opening at the top of the pocket that angles from the waistband downwards towards the outer hip area with a nominal opening of 152 mm (6 in); and
 - d. Has an integral smaller pocket constructed from the MULTICAM® camouflage pattern material with the finished material surface facing outwards on the inner layer of the main pocket suitable for carrying a pocket knife or small flashlight, accessible from the top angled opening of the main pocket;
 - ii. **Hip rear pocket** - An internal flat pocket beneath the waistband on each rear hip centered on each leg that is as follows:

- a. Constructed from two pieces of the MULTICAM® camouflage pattern material with the finished material surfaces facing the inside of the pocket, which are suspended from the waistband and pant shell at the top of the pocket;
 - b. Be nominally 152 mm (6 in) wide and 228 (9 in) deep; and
 - c. Accessible from the top via a double-layer flap across the top of each pocket as follows:
 - 1. Made of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards;
 - 2. Be the width of the pocket and nominally 45 mm (1.75 in) high, and open upwards; and
 - 3. Secured using 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 pocket;
- iii. Thigh front pocket - An external pleated pocket on each front thigh centered between the waist and the knee that is as follows:
- a. Constructed from the MULTICAM® camouflage pattern material with the finished material surface facing outwards;
 - b. Nominally 102 mm (4 in) wide by 152 mm (6 in) deep; and
 - c. Accessible from the top via a double-layer flap across the top of each pocket as follows:
 - 1. Made of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards;
 - 2. Be the width of the pocket and nominally 50 mm (2 in) high, and open upwards; and
 - 3. Secured using 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 pocket;
- iv. Thigh side pocket - An external pleated pocket on each outer rear thigh centered between the waist and the knee that is as follows:
- a. Constructed from the MULTICAM® camouflage pattern material with the finished material surface facing outwards;
 - b. Nominally 190 mm (7.5 in) wide by 254 mm (10 in) deep;
 - c. Accessible from the top via a double-layer flap across the top of each pocket as follows:
 - 1. Made of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards;
 - 2. Be the width of the pocket and nominally 75 mm (3 in) high, and open upwards; and
 - 3. Secured using 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 pocket;
 - d. Have an internal mechanism for securing contents (such as a water bottle, weapon magazine or other equipment) in an upright position as follows:
 - 1. Utilize a soft and flexible;
 - 2. Be fully adjustable; and
 - 3. Have no hard parts such as metal or plastic fasteners;
 - e. Have a single hand draw string adjusters at the top of the pocket to decrease the size of the top opening;
- v. Calf side pocket - An external pleated pocket on each lower outer side calf centered between the knee and the bottom cuff that is as follows:

- a. Constructed from the MULTICAM® camouflage pattern material with the finished material surface facing outwards;
 - b. Nominally 102 mm (4 in) wide by 152 mm (6 in) deep; and
 - c. Accessible from the top via a double-layer flap across the top of each pocket as follows:
 - 1. Made of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards;
 - 2. Be the width of the pocket and nominally 50 mm (2 in) high, and open upwards; and
 - 3. Secured using 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 pocket;
- (d) **Cuffs** - The ACU Pant cuff must:
- i. Have a double-layer construction of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards that extends nominally 50 mm (2 in) up from the bottom opening; and
 - ii. Have a cuff adjuster on each cuff of a low profile hook and loop fastener construction as follows:
 - a. Male patch attached to a double-layer tab of the MULTICAM® camouflage pattern material (with the finished material surface facing inwards and outwards);
 - b. The MULTICAM® camouflage pattern material tab is in turn attached to the double cuff such that it closes the cuff outward to inward; and
 - c. Female patch stitched onto the double cuff and extends nominally one third to one half the circumference of the bottom opening;
- (e) **Knee Pads** - The ACU Pant knee pad must;
- i. Have an external pouch made of the MULTICAM® camouflage pattern material with the finished material surface facing outwards at each knee that extends from the knee to the mid-shin area suitable for holding a removable knee pad as follows:
 - a. The pouch must be stitched to the knit woven insert and the MULTICAM® camouflage pant leg material to form a closed perimeter pouch that is nominally 280 mm (11in) in height and 178 mm (7 in) in width at the knee, and tapered toward each end in order to hold the knee pad into place;
 - b. Has a central opening to insert the knee pad that accommodates the exposure of the hard shell knee cap of the knee pad to the exterior of the pouch;
 - c. Secures the knee pad into place using hook and loop fasteners; and
 - d. Has a cover flap to that encloses the kneepad opening when the knee pad is not in place;
 - ii. Have a kneepad securing system to hold the kneepad into position as follows:
 - a. A vertical height adjuster within each waist front pocket as follows:
 - 1. Provides nominally 50 mm (2 in) of vertical adjustment; and
 - 2. Utilize a soft and flexible material, be fully adjustable, and have no hard parts such as metal or plastic fasteners;
 - b. A radial adjuster behind each knee of a low profile hook and loop construction to hold the knee pad close to the knee as follows:
 - 1. Male patch attached to a double-layer tab of the MULTICAM® camouflage pattern material with the finished material surface facing outwards;

2. The MULTICAM® camouflage pattern material tab is in turn attached to the outer side of the pant at the knee that it closes outward to inward; and
 3. Female patch attached to the pant leg material behind the knee that extends at least half the width of the pant leg;
 - iii. Have knee pads for each knee that fit into the external pouches as follows:
 - a. Easily removable/replaceable by the user without having to remove the pants;
 - b. Made of a semi-rigid, flexible foam material that is anatomically formed to the shape of the knee that is nominally 280 mm (11 in) in height and 152 mm (6 in) in width at the knee, and tapered toward the lower end;
 - c. Reinforced with an externally bonded synthetic material; and
 - d. Has an integral polymer hard shell knee cap that is resistant to abrasion.

APPENDIX 1 ACU SKETCHES

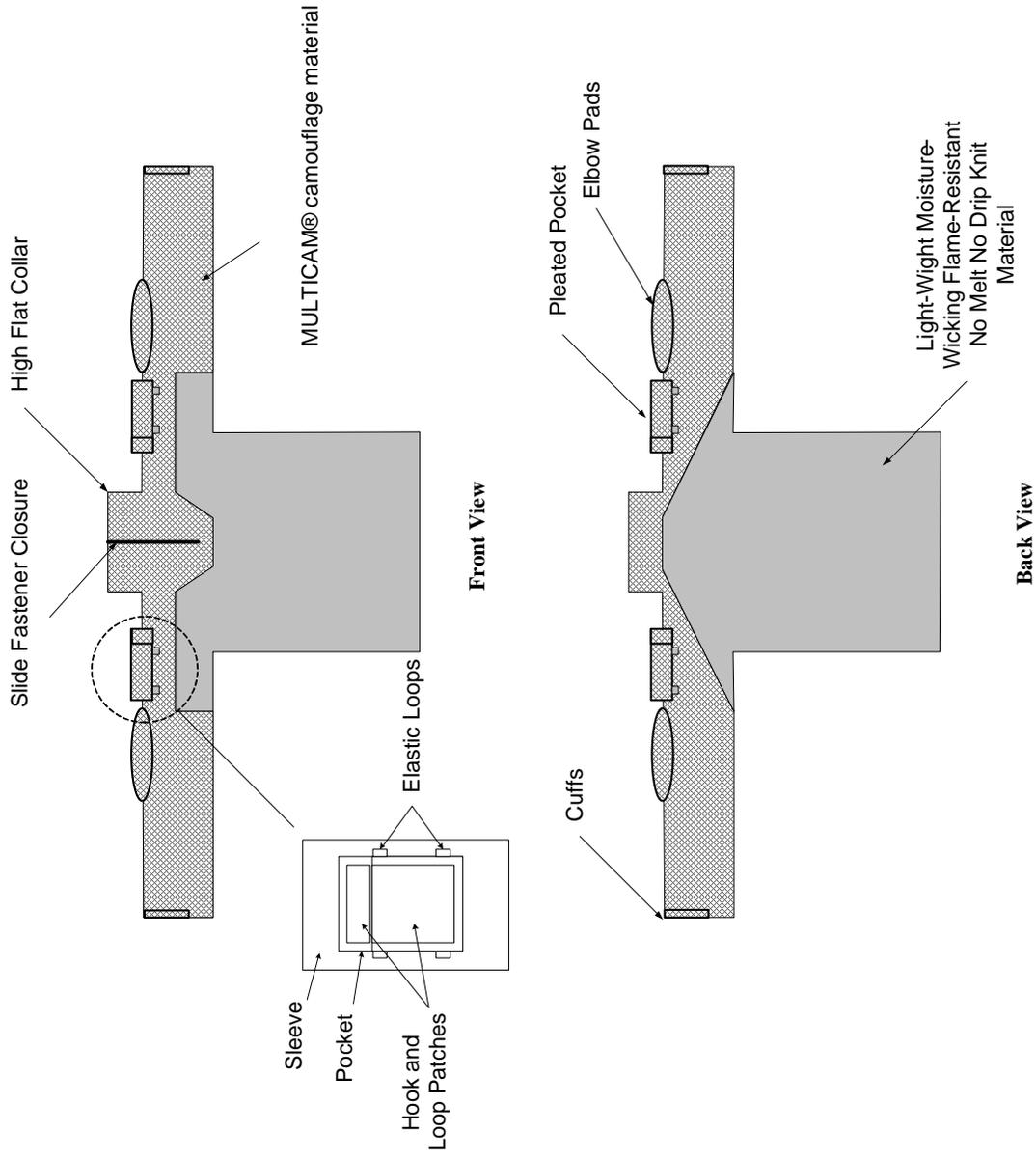


Figure 1: ACU DA Shirt

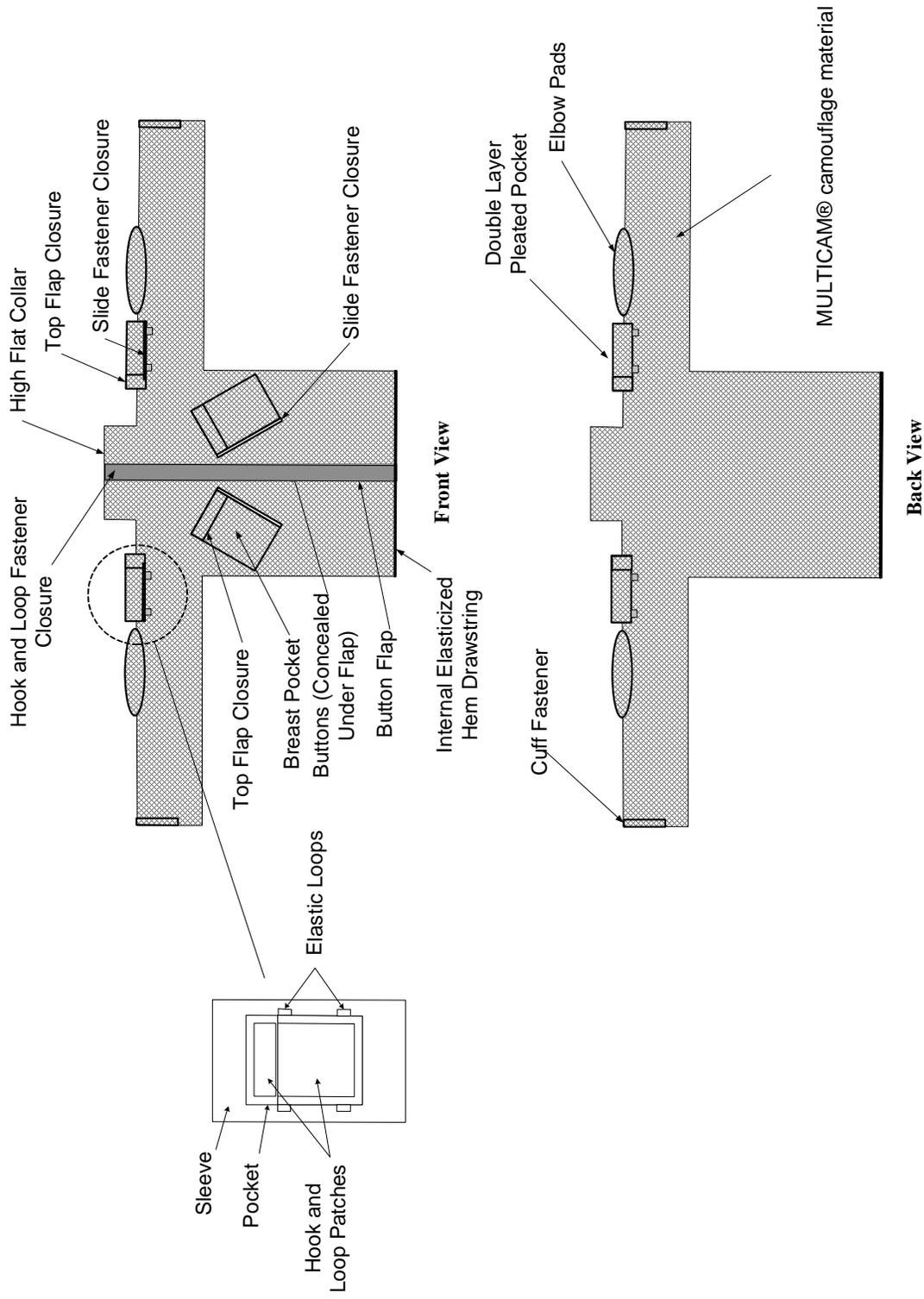


Figure 2: ACU SR Shirt

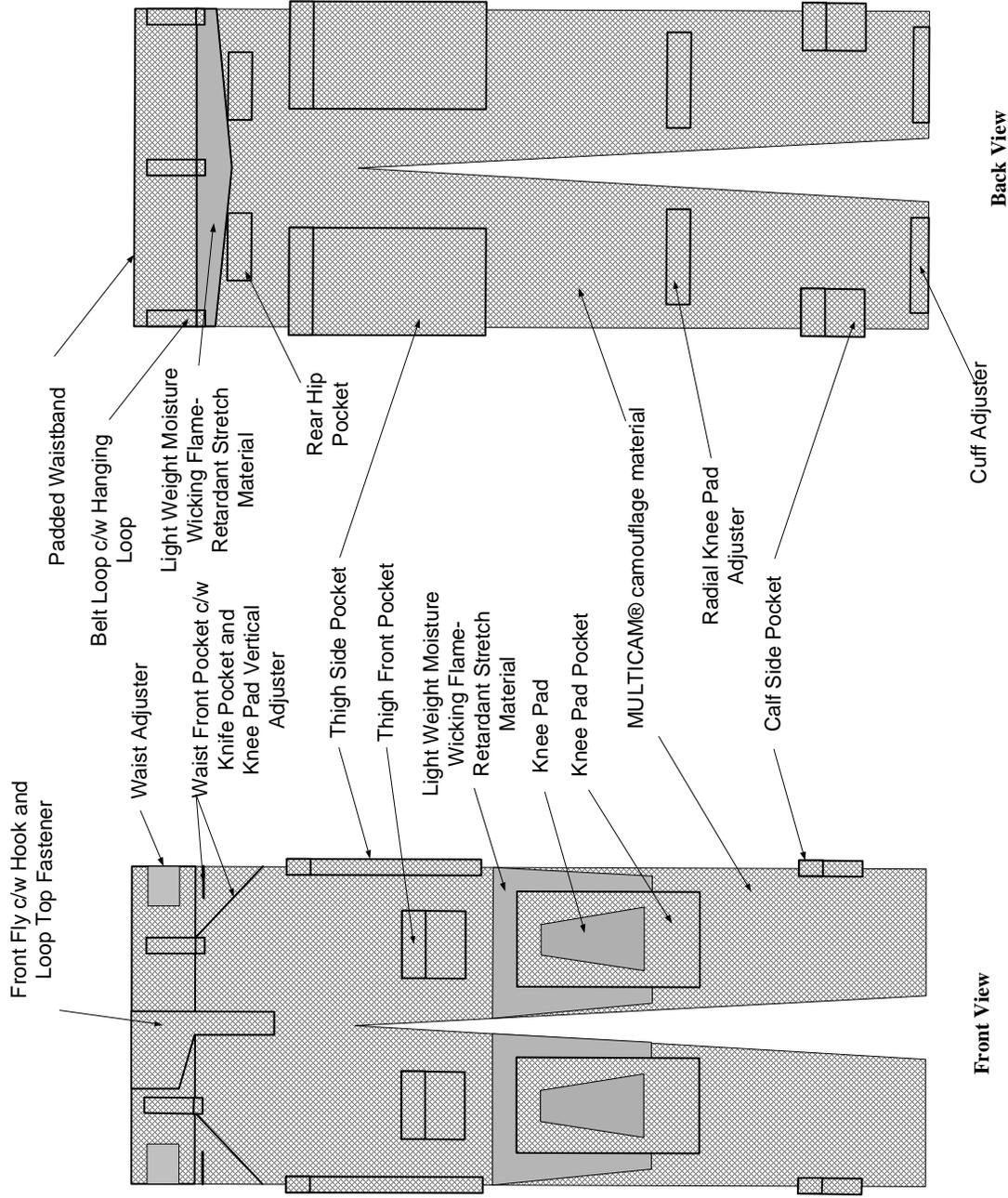


Figure 3: ACU Pant

**PROPOSAL REQUIREMENTS AND EVALUATION PLAN
FOR THE
ADVANCED COMBAT UNIFORM (ACU)**

1.0 GENERAL

1.1 Purpose

This document outlines the proposal requirements and evaluation process for the Advance Combat Uniform (ACU).

1.2 Instructions

Bidders will be assessed in accordance with the criteria detailed in this document. Mandatory requirements are identified by the word "must". All mandatory requirements must be met.

2.0 PROPOSAL REQUIREMENTS

The proposal requirements are as follows:

- (a) The Bidder is requested to provide a completed Compliance Matrix (Table 1); and
- (b) The Bidder must provide:
 - i. 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 supplier 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;
 - ii. 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 it must be dated within six months of the solicitation posting date; and
 - iii. Where a third part certification is required, the certification shall be from the component or fabric manufacturer that certifies that the component or fabric fully meets or exceeds the stated requirement;
- (c) Documentation provided with the bid must be type written (hand written submissions will not be considered).

3.0 TECHNICAL EVALUATION

3.1 Technical Evaluation

DND will assemble a Technical Evaluation Team who will evaluate the proposals in accordance with the Mandatory Requirements in Section 4.0 Table 1. The evaluation will be conducted on the supplied information only. All mandatory criteria must be met or the bid submission will be

deemed non-compliant. Failure to provide sufficient detail in the bid submission to evaluate the proposal 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.

4.0 MANDATORY REQUIREMENTS

Table 1: Compliance Matrix

Item #	Annex B Para	Requirement	Proof of Compliance	Bid Reference
1	N/A	<p><u>Expertise and Proven Design</u> The Bidder must have an existing similar product and have sold a minimum of one thousand (1000) 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.</p>	<p>The Bidder must provide: (1) Contract number, award date, model and quantities delivered; AND (2) Customer contact information; AND (3) Written Attestation that they have provided one thousand (1000) uniforms similar to the ACU Shirts and Pant to an ABCA military force or a North American (Canadian or US) police agency in the last five (5) years.</p>	
2	3.2 (a)	<p>The garments, except the torso of the ACU DA shirt (see Annex B Figure 1) and portions of the ACU Pant (see Annex B Figure 3), must be constructed of a composite rip-stop, inherently flame-resistant (FR) material printed with the MULTICAM® camouflage pattern, referred to as the MULTICAM® camouflage pattern material in this specification, with the following properties:</p>	<p>The Bidder must provide: (1) Written Attestation that the material has the composition as specified; AND</p>	

		<p>i. Composition ($\pm 1\%$ each):</p> <ul style="list-style-type: none"> a. 64% Lenzing FR® Rayon; b. 24% Para-Aramid; c. 10% Nylon; and d. 2% Static-Control™; <p>ii. Standards:</p> <ul style="list-style-type: none"> a. Flame and thermal protection in accordance with ASTM D6413M-11ae1 and NFPA 2112 (2012); b. Anti-Static in accordance with EN 1149-3:2004; and c. Flash fire exposure in accordance with ASTM F1930-11 manikin test: Afterflame, Afterglow, Char Length and Melt/Drip), with a resulting whole body burn (2nd and 3rd degree) of no more than 27%; <p>iii. Weight:</p> <ul style="list-style-type: none"> a. A nominal weight of 220 grams per square meter (6.5 ounces per square yard) with a variation of no more than $\pm 5\%$ between production lots; 	<p>(2) Full test results and/or third party certification that confirms that the material meets the standards specified;</p> <p>AND</p> <p>(3) Written Attestation that the material has a nominal weight as specified.</p>	
3	3.2 (b)	<p>The torso of the ACU DA shirt (see Annex B Figure 1) must be constructed of a light-weight, moisture wicking, flame-resistant, no melt no drip knit material in a non-fluorescent earth-tone colour, with the following properties;</p> <ul style="list-style-type: none"> i. Composition ($\pm 1\%$ each): <ul style="list-style-type: none"> a. 80% Modacrylic; b. 15% Viscose; and c. 5% X-STATIC®; ii. Standards: <ul style="list-style-type: none"> a. Flammability in accordance with ASTM D6413M-11ae1; and b. No melt no drip in accordance with ASTM D6413M-11ae1; iii. Weight: <ul style="list-style-type: none"> a. A nominal weight of 176 grams per square meter (5.2 ounces per square yard) with a variation of no more than $\pm 5\%$ between production lots; 	<p>The Bidder must provide:</p> <ul style="list-style-type: none"> (1) Written Attestation that the material has the composition as specified; <p>AND</p> <ul style="list-style-type: none"> (2) Full test results and/or third party certification that confirms that the material meets the standards specified; <p>AND</p> <ul style="list-style-type: none"> (3) Written Attestation that the material has a nominal weight as specified. 	
4	3.2 (c)	<p>The area above the knees and at the back of the waist of the ACU Pant (see Annex B Figure 3) must be constructed of a light-weight, moisture wicking,</p>	<p>The Bidder must provide Written Attestation that the</p>	

		flame retardant stretch material in a non-flourescent earth-tone colour;	material used in the area above the knees and at the back of the waist of the ACU Pant will be constructed of the specified material.	
5	3.2 (d)	The thread, used in the manufacture of the ACU shirts and pant must be made of no-melt, no-drip fire resistant materials;	The Bidder must provide Written Attestation that the thread used in the manufacture of the ACU Shirts and Pant will be as specified including: (1) The type of material; and (2) The standard to which the material is certified including, but not limited to, ASTM D6413 and NFPA 2112.	
6	3.2 (e)	All other materials, including buttons, slide fasteners, backing and fill material, cords and fasteners, used in the manufacture of the ACU shirts and pant must be made of no-melt, no-drip materials; and	The Bidder must provide Written Attestation that each other material used in the manufacture of the ACU Shirts and Pant will be as specified including: (1) The type of material; and (2) The standard to which the material is certified including, but not limited to, ASTM D6413 and NFPA 2112.	
7	3.2 (f)	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 ACU Shirts and Pant.	
8	3.2 3.4.	The garments must be available in the sizes specified in Annex B Section 3.4.	The Bidder must provide Written Attestation that the garments will be graded to the sizes specified prior to	

9	SOW (2.0 (b))	The garments must be available in custom sizes.	production. The Bidder must provide Written Attestation that custom sizing of garments will be available.
10	3.4	<u>Similarity of Manufacture</u> The ACU shirts (DA and SR) 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 ACU shirts (DA and SR) and pant will be of the same make, colour, material and design.
11	3.6	<u>Advanced Combat Uniform - Direct Action (DA) Shirt</u> The requirements for the ACU DA Shirt are detailed in the following sections. 3.6.1 <u>General Features</u> The ACU DA Shirt must: a) Have double-stitched seams throughout; b) Have slide fasteners, hook and loop fasteners and stitching that are colour coordinated with the MULTICAM® camouflage pattern; c) Permit single-hand operation of fasteners, pocket flaps and elbow pad insertion and removal; d) Have no raised seams where this type of equipment would apply acute pressure including the shoulders, waist and back when the user is wearing generic body armour and/or a tactical load bearing vest; e) Not utilize snaps or buttons in any area of the design; and f) Have an attached label that includes: i. Date of manufacture; ii. Size; and iii. Washing instructions. 3.6.2 <u>Design Features</u> The ACU DA Shirt is to be designed in accordance with the following requirements: a) General - The ACU DA Shirt must consist of a pull-over shirt with full-length arms as follows:	<u>ACU DA Shirt</u> The Bidder must provide Written Attestation that the ACU DA Shirt will be designed and constructed to meet the ACU DA Shirt requirements.

		<p>i. Have shoulders, arms, collar, neck and pockets/flaps constructed of the MULTICAM® camouflage pattern material in accordance with Annex B Section 3.3 (a);</p> <p>ii. Include a v-shaped band of the MULTICAM® camouflage pattern material that extends below the collar in the front of the shirt down to the mid-chest area below the slide fastener for the collar (see Annex B Figure 1) as follows:</p> <ul style="list-style-type: none"> a. At least the width of the collar at the top of the band; and b. Nominally 75 mm (3 in) wide at the base below the slide fastener; <p>iii. Have a torso that is made of a the a light-weight, moisture wicking, flame-resistant, no melt no drip knit material in accordance with Annex B Section 3.3 (b) that extends under the armpit for ventilation; and</p> <p>iv. Not have an adjustable bottom hem;</p> <p>(b) Collar - The ACU DA Shirt collar must:</p> <ul style="list-style-type: none"> i. Be a high flat collar the extends 76-102 mm (3-4 in) above the shoulders; ii. Be double layer construction of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards; iii. Have a slide fastener centered in the front of the collar between the shoulders as follows: <ul style="list-style-type: none"> a. Sized to permit donning/doffing the shirt (variation of length between shirt sizes is permitted); b. Opens downward (neck to waist) such that the collar is open at the top when the slide fastener is in the lower position; c. Has a low-profile design on the inner side of the fastener that does not have any sharp or protruding surfaces that would cause irritation to the wearer; and d. Has a placket of material of a soft design at the top of the slide fastener that covers the slide in the upper position to prevent chaffing the neck of the wearer; 	
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	<p>(c) Sleeve Pockets - The ACU DA Shirt must:</p> <ul style="list-style-type: none"> i. Have an external pleated pocket made of the MULTICAM® camouflage pattern material with the finished surface facing outwards on the upper exterior portion of each sleeve in the shoulder area, with the lower portion of the pocket just above the elbow area with nominal dimensions as follows: <ul style="list-style-type: none"> a. 152 mm (6 in) wide; and b. 178 mm (7 in) high; ii. Have a double-layer flap across the top of each pocket as follows: <ul style="list-style-type: none"> a. Made of the MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outwards; b. Be the width of the pocket and nominally 64 mm (2.5 in) high, and open upwards c. Secured using hook and loop fasteners with the male patch attached to the underside of the flap that contacts the female patch on the exterior of the pocket; iii. Have hook and loop fastener female patches, of the same design as the patches on the ACU SR shirt, bonded and sewn to the exterior of each sleeve pocket and flap (left and right) with nominal dimensions as follows: <ul style="list-style-type: none"> a. Pocket patches 102 mm (4 in) wide by 140 mm (5.5 in) high; and b. Flap patches 102 mm (4 in) wide by 50 mm (2 in) high; iv. Have total four (4) strong elasticized loops on each sleeve pocket as follows: <ul style="list-style-type: none"> a. Two (2) loops on the inner side of the pocket and two (2) loops on the outer side of the pocket; b. Constructed of 25 mm (1 in) wide flat elasticized material folded in half to form the loop that is 25 mm (1 in) wide and 19 mm (0.75 in) in diameter; c. Stitched into place between the outer layer of the shirt and the pocket material in a manner that 		
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	<p>provides strength without being bulky (no plastic or metal fasteners permitted);</p> <ul style="list-style-type: none"> d. Lower loops centered at 45 mm (1.75 in) from the bottom of the pocket; and e. Upper loops centered at 108 mm (4.25 in) from the bottom of the pocket. <p>v. Have one (1) internal pen pocket within each sleeve pocket made of the MULTICAM® camouflage pattern material;</p> <p>(d) Cuffs - The ACU DA Shirt cuff must:</p> <ul style="list-style-type: none"> i. Have a double-layer construction made of the MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outwards, that extends nominally 50 mm (2 in) from the sleeve opening; and ii. Have a cuff adjuster on each cuff of a low profile hook and loop fastener construction as follows: <ul style="list-style-type: none"> a. Male patch attached to a double-layer tab of the MULTICAM® camouflage pattern material (with the finished material surface facing inwards and outwards); b. The MULTICAM® camouflage pattern material tab is in turn attached to the double cuff such that it closes the cuff outward to inward; and c. Female patch stitched onto the double cuff and extends nominally half the circumference of the sleeve opening; 	
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12	3.6.2 (e)	<p>Elbow Pads - The ACU DA Shirt must;</p> <p>i. Have an external pouch made of the MULTICAM® camouflage pattern material with the finished material surface facing outwards at each elbow that extends from the elbow to the wrist suitable for holding a removable elbow/forearm pad as follows:</p> <p>a. The pouch must be stitched to the MULTICAM® camouflage arm material to form a closed perimeter pouch that has a width at the elbow to accommodate the elbow pad, and tapered toward each end in order to hold the elbow pad into place;</p> <p>b. Has a central opening to insert the elbow pad that accommodates the exposure of the hard shell cap of the elbow pad to the exterior of the pouch; and</p> <p>c. Secures the elbow pad into place using hook and loop fasteners;</p> <p>ii. Have elbow pads for each elbow that fit into the external pouches as follows:</p> <p>a. Easily removable/replaceable by the user without having to remove the shirt;</p> <p>b. Made of a semi-rigid, flexible foam material that is anatomically formed to the shape of the elbow and forearm that is nominally 229 mm (9 in) in height and 102 mm (4 in) in width at the elbow, and tapered toward each end;</p> <p>c. Reinforced with an externally bonded synthetic material; and</p> <p>d. Has an integral polymer hard shell elbow cap that is resistant to abrasion.</p>	<p>The Bidder must provide Written Attestation that confirms that the elbow pads will be designed and constructed to meet the ACU DA Shirt Elbow Pads requirements.</p>
13	3.7	<p><u>Advanced Combat Uniform - Special Reconnaissance (SR) Shirt</u></p> <p>The requirements for the ACU SR Shirt are detailed in the following sections.</p> <p>3.7.1 <u>General Features</u></p>	<p>ACU SR Shirt</p> <p>The Bidder must provide Written Attestation that the ACU SR Shirt will be designed and constructed to meet the</p>

	<p>The ACU SR Shirt must:</p> <ul style="list-style-type: none"> a) Have double-stitched seams throughout; b) Have slide fasteners, hook and loop fasteners and stitching that are colour coordinated with the MULTICAM® camouflage pattern material; c) Permit single-hand operation of fasteners, pocket flaps and elbow pad insertion and removal; and d) Have an attached label that includes: <ul style="list-style-type: none"> i. Date of manufacture; ii. Size; and iii. Washing instructions. <p>3.7.2 <u>Design Features</u></p> <p>The ACU SR Shirt is to be designed in accordance with the following requirements:</p> <ul style="list-style-type: none"> (a) General - The ACU SR Shirt must consist of a full-length front opening shirt with full-length arms constructed entirely of the MULTICAM® camouflage pattern material; (b) Collar - The ACU SR Shirt collar must: <ul style="list-style-type: none"> i. Be a high flat collar the extends 76-102 mm (3-4 in) above the shoulders; ii. Be double layer construction of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards; iii. Have an overlapping flap to secure the collar at the front with hook and loop fasteners as follows: <ul style="list-style-type: none"> a. Female patch bonded and sewn to the exterior of one flap; and b. Male patch bonded and sewn to the interior of the opposing flap such that it engages the female path on the other flap; c. Have a placket of material of a soft design on the inner side of the overlapping flap to prevent the hook and loop fastener from chaffing the neck/chest of the wearer; (c) Front Full-Length Fasteners - The ACU SR Shirt must: 	<p>ACU SR Shirt requirements.</p>
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		<p>i. Have an open front down the center of the shirt with reinforced bands on either side of the opening that extend from the overlapping collar flap to the hem and are wide enough to accommodate the buttons as follows:</p> <ul style="list-style-type: none"> a. The inner shirt band must be on the right side opening of the wearer and be constructed of a double layer of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards; and b. The outer shirt band must be on the left side opening of the wearer and be constructed of a two double layers of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards as follows: <ul style="list-style-type: none"> 1. The inner double layer must have button holes that match with the location of the corresponding buttons on the inner flap; and 2. The outer double layer must not have button holes in order to conceal the buttons except for the top button which may pass through both layers to reveal the button; <p>ii. Have a front fastening system consisting of five (5) buttons attached to the inner shirt band as follows:</p> <ul style="list-style-type: none"> a. Top button nominally 25 mm (1 in) below the overlapping collar flap; b. Bottom button nominally 152 mm (6 in) above the hem; and c. The remaining three (3) buttons evenly spaced between the top and bottom button; <p>iii. Have buttons that are a nominally 25 mm (1 in) in diameter; and</p> <p>iv. Have two (2) spare buttons sewn inside the shirt (at the waist or inside a pocket);</p> <p>(d) Pockets - The ACU SR Shirt must have pockets as follows:</p> <ul style="list-style-type: none"> i. <u>Chest Pocket</u> - An external pleated pocket on the upper exterior portion of each side of the chest that are as follows:
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		<p>a. Constructed from the MULTICAM® camouflage pattern material with the finished material surface facing outwards area with nominal dimensions as follows:</p> <ol style="list-style-type: none"> 1. 152 mm (6 in) wide ; and 2. 178 mm (7 in) high; <p>b. Slanted inwards at the top at approximately 30 degrees from vertical and located in the center of the left and right sides of the chest (see Figure 2);</p> <p>c. Accessible from the top and inner side as follows:</p> <ol style="list-style-type: none"> 1. A double-layer flap across the top of each pocket as follows: <ol style="list-style-type: none"> a. Made of the MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outwards; b. Be the width of the pocket and nominally 64 mm (2.5 in) high, and open upwards; c. Secured using hook and loop fasteners, with the male patch attached to the underside of the flap that contacts the female patch on the exterior of the pocket; and 2. A vertical slide fastener located on the inward side of the pocket that is nominally 152 mm (6 in) in effective opening length and open upwards (waist to chin motion); <p>ii. <u>Sleeve Pocket</u> - An external double layer pleated pocket on the upper exterior portion of each sleeve that is as follows:</p> <ol style="list-style-type: none"> a. Constructed from two layers of the MULTICAM® camouflage pattern material with the finished material surface facing outwards as follows: <ol style="list-style-type: none"> 1. The two layers in conjunction with the base sleeve material form two (2) integrated pockets, one above the other, as follows: 	
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		<p>a. Both pockets nominally 152 mm (6 in) wide by 178 mm (7 in) high;</p> <p>b. The inner pocket is accessible from the top via a double-layer flap across the top of the pocket made of the MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outwards as follows:</p> <ol style="list-style-type: none"> 1. The width of the pocket and 64 mm (2.5 in) high; 2. Opens upwards; and 3. Secured using hook and loop fasteners, with the male patch attached to the underside of the flap that contacts the female patch on the exterior of the pocket; <p>c. The outer pocket is accessible from the side via a vertical slide fastener located on the inward side of the pocket that has a nominal 127 mm (5 in) in effective opening length and opens upwards (elbow to shoulder motion);</p> <p>b. Have hook and loop fastener female patches, of the same design as the patches on the ACU DA shirt, bonded and sewn to the exterior of each sleeve pocket and flap (left and right) with nominal dimensions as follows:</p> <ol style="list-style-type: none"> 1. Pocket patches 102 mm (4 in) wide by 140 mm (5.5 in) high; and 2. Flap patches 102 mm (4 in) wide by 50 mm (2 in) high; <p>c. Have total four (4) strong elasticized loops on each</p>	
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	<p>sleeve pocket as follows:</p> <ol style="list-style-type: none"> 1. Two (2) loops on the inner side of the pocket and two (2) loops on the outer side of the pocket; 2. Constructed of 25 mm (1 in) wide flat elasticized material folded in half to form the loop that is 25 mm (1 in) wide and 19 mm (0.75 in) in diameter; 3. Stitched into place between the outer layer of the shirt and the pocket material in a manner that provides strength without being bulky (no plastic or metal fasteners permitted); 4. Lower loops centered at 45 mm (1.75 in) from the bottom of the pocket; and 5. Upper loops centered at 108 mm (4.25 in) from the bottom of the pocket. <p>d. Have one (1) internal pen pocket within each sleeve pocket made of the MULTICAM® camouflage pattern material;</p> <p>(e) Cuffs - The ACU SR Shirt cuff must:</p> <ol style="list-style-type: none"> i. Have a double-layer construction made of the MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and outwards, that extends nominally 50 mm (2 in) from the sleeve opening; and ii. Have a cuff adjuster on each cuff of a low profile hook and loop fastener construction as follows: <ol style="list-style-type: none"> a. Male patch attached to a double-layer tab of the MULTICAM® camouflage pattern material (with the finished material surface facing inwards and outwards); b. The MULTICAM® camouflage pattern material tab is in turn attached to the double cuff such that it closes the cuff outward to inward; and c. Female patch stitched onto the double cuff and 	
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14	3.7.2(g)	<p>extends nominally half the circumference of the sleeve opening;</p> <p>Hem - The ACU SR Shirt must have a bottom hem that is adjustable by means of an integral elastic draw cord;</p> <p>Elbow Pads - The ACU SR Shirt must;</p> <p>i. Have an external pouch made of the MULTICAM® camouflage pattern material with the finished material surface facing outwards at each elbow that extends from the elbow to the wrist suitable for holding a removable elbow/forearm pad that is:</p> <p>a. Secured at the bottom using hook and loop fasteners; and</p> <p>b. Conformed to hold the elbow pad into place;</p> <p>ii. Have elbow/forearm pads for each arm that fit into the external pouches and are:</p> <p>a. Easily removable/replaceable by the user without having to remove the shirt;</p> <p>b. Made of a semi-rigid, flexible foam material that is anatomically formed to the shape of the elbow and forearm that is nominally 229 mm (9 in) in height and 102 mm (4 in) in width at the elbow, and tapered toward each end; and</p> <p>c. Reinforced with an externally bonded synthetic material.</p>	<p>ACU SR Shirt Elbow Pads The Bidder must provide Written Attestation that confirms that the elbow pads will be designed and constructed to meet the ACU SR Shirt Elbow Pads requirements.</p>	
15	3.8	<p>Advanced Combat Uniform - Pant The requirements for the ACU Pant are detailed in the following sections.</p> <p>3.8.1 General The ACU Pant must:</p> <p>a) Have double-stitched seams throughout;</p> <p>(b) Have slide fasteners, hook and loop fasteners and stitching that are colour coordinated with the MULTICAM® camouflage pattern;</p> <p>(c) Permit single-hand operation of fasteners, pocket flaps and knee pads;</p> <p>(d) Not utilize snaps or buttons in any area of the design; and</p>	<p>ACU Pant The Bidder must provide Written Attestation that ACU Pant will be designed and constructed to meet the ACU Pant requirements.</p>	

<p>(e) Have an attached label that includes:</p> <ul style="list-style-type: none"> i. Date of manufacture; ii. Size; and iii. Washing instructions; 			
<p>3.8.2 <u>Design</u> The ACU Pant is to be designed in accordance with the following requirements:</p>			
<p>(a) General - The ACU Pant must consist of a full-length pant as follows;</p> <ul style="list-style-type: none"> i. Constructed of the MULTICAM® camouflage pattern material except where specified; ii. Have a double-layer seat constructed of the MULTICAM® camouflage pattern material; and iii. Have stretch-woven material inserts in accordance with Annex B Section 3.3 (c) as follows: <ul style="list-style-type: none"> a. At the knees to accommodate ease of movement when kneeling that is the width of the pant leg (front) and extends from the mid-thigh area to below the knee; and b. At the lower back below the waistband to accommodate ease of movement when bending over that extends the width of the back and is nominally 50 mm (2 in) high at the center of the back and tapers towards the sides; 			
<p>(b) Waist - The ACU Pant waist must:</p> <ul style="list-style-type: none"> i. Have an integral waistband that is of double layer construction of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards with nominal dimensions as follows: <ul style="list-style-type: none"> a. Width of 63 mm (2.5 in) in the center back area; and b. Tapering to 89 mm (3.5 in) at the front; ii. Be padded between the double waistband layers with nominal 3 mm (0.125 in) of a flexible foam material; iii. Have a gusseted crotch area; iv. Have a center front fly as follows: 			

		<p>a. Have a slide fastener as follows:</p> <ol style="list-style-type: none"> 1. Nominal 127 mm (5 in) in length 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 an inner side of a low-profile design that does not have any sharp or protruding surfaces that would cause irritation to the wearer; and 3. Incorporates a placket of the MULTICAM® camouflage pattern material on the inner side of the slide fastener to prevent the slide fastener from chaffing the waist of the wearer; <p>b. Secured at the top with a hook and loop fastener as follows:</p> <ol style="list-style-type: none"> 1. Include a double layer extension tab (finished material surface facing inwards and outwards) that is made of the MULTICAM® camouflage pattern material and extends from the left side of the fly opening on the waistband; 2. Male patch attached to the waistband on the left side of the fly opening and extends on to the double-layer tab; and 3. Female patch attached to the waistband on the right side of the fly opening; <p>c. The combined effective open length of the slide fastener and the hook and loop securing fastener must be nominally 178 mm (7 in);</p> <p>v. Have a low-profile waist adjustment that utilizes a hook and loop fastener(s) and provides nominally 50 mm (2 in) of waist expansion over the rated size of the pants; and</p> <p>vi. Have a minimum of five (5) belt loops made of a double layer of the MULTICAM® camouflage pattern material with the finished material surfaces facing inwards and</p>		
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		<p>outwards as follows:</p> <ol style="list-style-type: none"> a. Two (2) loops in the front of the pants; b. Three (3) loops in the back of the pants; c. Each loop nominally 25 mm (1 in) in width and have an effective belt opening of 63 mm (2.5 in); d. Loops stitched to the waistband at the top and bottom in a manner that provides strength without being bulky and does not utilize plastic or metal fasteners; and e. Incorporate a small loop of material suitable for hanging small items at the bottom of each belt loop as follows: <ol style="list-style-type: none"> 1. Same width as the belt loop and has an effective nominal diameter of 12 mm (1/2 in); 2. Made of a double layer of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards; and 3. Stitched into or integral with the lower portion of the belt loop below the belt loop stitching; <p>(c) Pockets - The ACU Pant must have pockets as follows:</p> <ol style="list-style-type: none"> i. Waist front pocket - An internal flat pocket beneath the waistband on each front hip that is as follows: <ol style="list-style-type: none"> a. Constructed from two pieces of the MULTICAM® camouflage pattern material with the finished material surfaces facing the inside of the pocket, which are suspended from the waistband and pant shell at the top of the pocket; b. Be nominally 203 mm (8 in) wide at the top, 152 mm (6 in) wide at the bottom, and 228 mm (9 in) deep; c. Accessible from an opening at the top of the pocket that angles from the waistband downwards towards the outer hip area with a nominal opening of 152 	
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		<p>mm (6 in); and</p> <p>d. Has an integral smaller pocket constructed from the MULTICAM® camouflage pattern material with the finished material surface facing outwards on the inner layer of the main pocket suitable for carrying a pocket knife or small flashlight, accessible from the top angled opening of the main pocket;</p> <p>ii. <u>Hip rear pocket</u> - An internal flat pocket beneath the waistband on each rear hip centered on each leg that is as follows:</p> <p>a. Constructed from two pieces of the MULTICAM® camouflage pattern material with the finished material surfaces facing the inside of the pocket, which are suspended from the waistband and pant shell at the top of the pocket;</p> <p>b. Be nominally 152 mm (6 in) wide and 228 (9 in) deep; and</p> <p>c. Accessible from the top via a double-layer flap across the top of each pocket as follows:</p> <ol style="list-style-type: none"> 1. Made of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards; 2. Be the width of the pocket and nominally 45 mm (1.75 in) high, and open upwards; and 3. Secured using 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 pocket; <p>iii. <u>Thigh front pocket</u> - An external pleated pocket on each front thigh centered between the waist and the knee that is as follows:</p> <ol style="list-style-type: none"> a. Constructed from the MULTICAM® camouflage pattern material with the finished material surface facing outwards; b. Nominally 102 mm (4 in) wide by 152 mm (6 in) deep; and
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	<p>c. Accessible from the top via a double-layer flap across the top of each pocket as follows:</p> <ol style="list-style-type: none"> 1. Made of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards; 2. Be the width of the pocket and nominally 50 mm (2 in) high, and open upwards; and 3. Secured using 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 pocket; <p>iv. <u>Thigh side pocket</u> - An external pleated pocket on each outer rear thigh centered between the waist and the knee that is as follows:</p> <ol style="list-style-type: none"> a. Constructed from the MULTICAM® camouflage pattern material with the finished material surface facing outwards; b. Nominally 190 mm (7.5 in) wide by 254 mm (10 in) deep; c. Accessible from the top via a double-layer flap across the top of each pocket as follows: <ol style="list-style-type: none"> 1. Made of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards; 2. Be the width of the pocket and nominally 75 mm (3 in) high, and open upwards; and 3. Secured using 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 pocket; d. Have an internal mechanism for securing contents (such as a water bottle, weapon magazine or other equipment) in an upright position as follows: <ol style="list-style-type: none"> 1. Utilize a soft and flexible material; 2. Be fully adjustable; and 3. Have no hard parts such as metal or plastic 	
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	<p>fasteners;</p> <ul style="list-style-type: none"> e. Have a single hand draw string adjusters at the top of the pocket to decrease the size of the top opening; <p>v. <u>Calf side pocket</u> - An external pleated pocket on each lower outer side calf centered between the knee and the bottom cuff that is as follows:</p> <ul style="list-style-type: none"> a. Constructed from the MULTICAM® camouflage pattern material with the finished material surface facing outwards; b. Nominally 102 mm (4 in) wide by 152 mm (6 in) deep; and c. Accessible from the top via a double-layer flap across the top of each pocket as follows: <ul style="list-style-type: none"> 1. Made of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards; 2. Be the width of the pocket and nominally 50 mm (2 in) high, and open upwards; and 3. Secured using 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 pocket; <p>(d) <u>Cuffs</u> - The ACU Pant cuff must:</p> <ul style="list-style-type: none"> i. Have a double-layer construction of the MULTICAM® camouflage pattern material with the finished material surface facing inwards and outwards that extends nominally 50 mm (2 in) up from the bottom opening; and ii. Have a cuff adjuster on each cuff of a low profile hook and loop fastener construction as follows: <ul style="list-style-type: none"> a. Male patch attached to a double-layer tab of the MULTICAM® camouflage pattern material (with the finished material surface facing inwards and outwards); b. The MULTICAM® camouflage pattern material tab is in turn attached to the double cuff such that it closes the cuff outward to inward; and 	

16	3.8.2 (e)	<p>c. Female patch stitched onto the double cuff and extends nominally one third to one half the circumference of the bottom opening;</p> <p>d.</p> <p><u>Knee Pads</u> - The ACU Pant knee pad must;</p> <p>i. Have an external pouch made of the MULTICAM® camouflage pattern material with the finished material surface facing outwards at each knee that extends from the knee to the mid-shin area suitable for holding a removable knee pad as follows:</p> <p>a. The pouch must be stitched to the knit woven insert and the MULTICAM® camouflage pant leg material to form a closed perimeter pouch that is nominally 280 mm (11in) in height and 178 mm (7 in) in width at the knee, and tapered toward each end in order to hold the knee pad into place;</p> <p>b. Has a central opening to insert the knee pad that accommodates the exposure of the hard shell knee cap of the knee pad to the exterior of the pouch;</p> <p>c. Secures the knee pad into place using hook and loop fasteners; and</p> <p>d. Has a cover flap to that encloses the kneepad opening when the knee pad is not in place;</p> <p>ii. Have a kneepad securing system to hold the kneepad into position as follows:</p> <p>a. A vertical height adjuster within each waist front pocket as follows:</p> <ol style="list-style-type: none"> 1. Provides nominally 50 mm (2 in) of vertical adjustment; and 2. Utilize a soft and flexible material, be fully adjustable, and have no hard parts such as metal or plastic fasteners; <p>b. A radial adjuster behind each knee of a low profile hook and loop fastener construction to hold the knee pad close to the knee as follows:</p> <ol style="list-style-type: none"> 1. Male patch attached to a double-layer tab of 	<p><u>ACU Pant Knee Pads</u> The Bidder must provide Written Attestation that the knee pads will be designed and constructed to meet the ACU Pant Knee Pads requirements.</p>
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		<p>the MULTICAM® camouflage pattern material with the finished material surface facing outwards;</p> <p>2. The MULTICAM® camouflage pattern material tab is in turn attached to the outer side of the pant at the knee that it closes outward to inward; and</p> <p>3. Female patch attached to the pant leg material behind the knee that extends at least half the width of the pant leg;</p> <p>iii. Have knee pads for each knee that fit into the external pouches as follows:</p> <ol style="list-style-type: none"> a. Easily removable/replaceable by the user without having to remove the pants; b. Made of a semi-rigid, flexible foam material that is anatomically formed to the shape of the knee that is nominally 280 mm (11 in) in height and 152 mm (6 in) in width at the knee, and tapered toward the lower end; c. Reinforced with an externally bonded synthetic material; and d. Has an integral polymer hard shell knee cap that is resistant to abrasion. 	
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