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Gatineau, Québec K1A 0S5

Bid Fax: (819) 997-9776

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

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

L'Esplanade Laurier,

East Tower 7th Floor

Tour est 7e étage

140 O'Connor, rue O'Connor,

Ottawa

Ontario

K1A 0R5

Title - Sujet Hard Body Armour Plates	
Solicitation No. - N° de l'invitation 5P051-180632/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client 5P051-180632	Date 2018-12-04
GETS Reference No. - N° de référence de SEAG PW-\$\$PR-765-75929	
File No. - N° de dossier pr765.5P051-180632	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-01-14	
Time Zone Fuseau horaire Eastern Standard Time EST	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Dubé, Jonah	Buyer Id - Id de l'acheteur pr765
Telephone No. - N° de téléphone (613) 859-0788 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	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

SOLICITATION AMENDMENT 001

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SECTION A - QUESTIONS AND ANSWERS

Question 1:

Can you review the specification provided with the ref RFP and advise if the specification should be on Plates.

Answer 1:

Please refer to Change 1 below.

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SECTION B – CHANGES TO THE BID SOLICITATION

Change 1:

DELETE Annex B

INSERT Annex B attached.

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ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED

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Specification

Parks Canada Agency

Law Enforcement Branch

Hard Armour Rifle Plate (Hard Body Armour)

Date: October 1st, 2018

Version: 1.0



1. Definitions

- 1.1 This specification must govern the manufacture and inspection of the Hard Armour Rifle Plate.
- 1.2 This specification or other information issued in connection therewith, may only be used for specific enquiries, tenders, or orders placed on behalf of the Parks Canada Agency.

2. Applicable Specifications

- 2.1 The following publications are applicable to this specification and to the issues in effect on the date of the Request for Proposal, unless otherwise specified.
- 2.2 NIJ Standard 0101.06 Ballistic Resistance of Body Armour (2008).
- 2.3 U.S. MIL-STD-662F, Military Standard: V50 Ballistic Test for Armor.

3. General Requirements

- 3.1 The article or material covered by this specification must be free from imperfections or blemishes such as may affect its appearance or serviceability.
- 3.2 Design - The Hard Armour Rifle Plate must be of a multi-curve shape with shooter's cut (angled top corners), with a composite strike face that absorbs the impact from projectiles. Projectiles must not break apart upon impact and instead deform into the plate. The plates are designed to protect a limited part of the torso against penetration and severe blunt trauma effects generated by small calibre ball projectiles.

4. Detailed Requirements

4.1 **General Requirements**

- 4.1.1 **Ballistic Protection Level, General** – The Plate, Rifle, General Duty must meet the NIJ Standard 0101.06 Level III when tested in conjunction with NIJ Standard 0101.06 level II Soft Body Armour (SBA) against the following ballistic threats:

- a. 7.62 mm ball rounds (NIJ0101.06 level III)
- b. 7.62 mm M43 or M67 **mild** steel core (AK47); velocity of 700 m/s (+/- 9.1)
- c. 5.56 mm ball rounds (M193 and LE223T3); velocity of 937 m/s (+/- 20)

- 4.1.2 **Ballistic Protection Level, Special** – The Hard Armour Rifle Plate must satisfy the following requirements when tested in conjunction with NIJ Standard 0101.06 level II SBA:

- a. 30-06 SPRG, JSP 180gr, 822 m/s. 4 shot/plate as per NIJ.06 testing methodology.
- b. 300 WIN. MAG, JSP 180gr, 902 m/s. 2 shot/plate as per *modified** NIJ.06 testing methodology. ***2nd shot minimum spacing 6 inches.**



c. 12 GA 2 3/4" 1 oz, HP Rifled Slug, 488 m/s. 2 shot/plate as per NIJ.06 testing methodology.

4.2 Plate Construction – The Hard Armour Rifle Plate must be constructed from a one-piece composite material strike face to obtain the necessary performance characteristics. The Hard Armour Rifle Plate must have a non-removable cover on the front, back and sides. The cover must have no excess material that will hinder use of the plate or the insertion of the plate into any Parks Canada Agency Personal Protective Equipment Vest (PPEV) (purchased separately). The Hard Armour Rifle Plate may have non-ballistic backing material to reduce backface deformation and/or increase multi-hit capability and durability. The backing material must encompass the entire rear surface of the plate. Such composite construction must not deleteriously affect the long term durability, shelf life, and ‘field’ use performance. All components of the Hard Armour Rifle Plate must be permanently bonded together for their expected useful ‘life’, with no excess bonding agent showing on the plate surface. Any such excess must be removed prior to completion.

4.2.1 Non-Ballistic Backing Material – Non-ballistic backing material must be of a type that may be bonded together with the composite ballistic material and any other material used in the manufacture of the Hard Armour Rifle Plate. It must not be deleteriously affected by any process during the manufacture of the plate.

4.2.2 Cover Material – The cover material must be a fabric or other suitable cover green or black in colour. The cover material must not be removable.

4.2.3 Shape, Weight and Dimensions - The Hard Armour Rifle Plate must be rectangular in shape with multi-curvature and having a shooter’s cut (angled top corners). It must be available in the following sizes:

Plate	Width (cm)	Height (cm)	Max. Thickness (mm)	Max. Weight (g)
Medium	24.1	30.5	26	1050
Small	20.3	25.4	26	800
Tolerance	-5 mm		+/- 1	+ 50

4.3 Buoyancy – The Hard Armour Rifle Plate must be positively buoyant and float in water.

4.4 Water Resistance – The Hard Armour Rifle Plate must meet NIJ 0101.06 water immersion protocol.

4.5 Extreme Environmental Durability – The Hard Armour Rifle Plate must not experience any visual degradation when stored between -15 and +65 degrees Celsius.

4.6 Extreme Environmental Resistance – The Hard Armour Rifle Plate must perform ballistically when stored between -15 and +90 degrees Celsius.

4.7 Blunt Impact Durability – The Hard Armour Rifle Plate must perform ballistically after being subject to the NIJ 0101.06 Section 6.3.4 Blunt Impact Test.



- 4.8 **Life Expectancy** - The Hard Armour Rifle Plate must have a minimum life expectancy of five (5) years during normal use.
- 4.9 **Workmanship** – The finished product must reflect high standards of workmanship and must be free from all defects that would affect quality, appearance, safety or proper functioning in service.
- 4.10 **Labelling** – A permanent label, 10 cm width x 15 cm height minimum dimensions, must be placed on each plate on the wear (body) side. Labelling must conform to the requirements of U.S. NIJ 0101.06 with the required information on each plate label, in both English and French in black legible, indelible, permanent lettering on a white background material. Each plate must have the strike face identified using 10 mm high (minimum) upper case block letters in permanent, indelible white letters, spelling out the words “STRIKE FACE”.
- 4.11 **Label Durability** – The label must remain attached to the protective cover after being exposed to extreme temperatures from -15 to +90 degrees Celsius.
- 4.12 **Label Chemical Resistance** – The label must resist visual degradation when tested to NIJ 0101.06 Section 4.1.5.3: Label Permanency and Durability.

5. Quality Assurance Provisions

- 5.1 **Responsibility for Inspection** – Unless otherwise stipulated in the Contract, it is the Contractor’s responsibility to satisfy the Parks Canada Agency that the material and services supplied conform to this specification. This may be accomplished by performing the tests specified in this specification or by demonstrating to the satisfaction of the Parks Canada Agency that conformity to this specification of manufacturing processes is assured.
- 5.2 The Parks Canada Agency, Law Enforcement Branch reserve the right to perform any inspection considered necessary to ensure the material and services conform to the specified requirements. For the purpose of inspection, a portion of each delivery not exceeding ten (10) out of one hundred (100), may be put to tests that could destroy the articles. If found to be inferior or not in accordance with this specification, all articles so destroyed must be replaced by others of proper quality and pattern at the expense of the Contractor. The entire delivery may also be rejected if it is found that articles previously rejected due to non-repairable defects are redelivered for inspection and continue to not conform to the specified requirements.
- 5.3 The Contractor will be promptly notified when any articles are not accepted and such articles will be returned at the Contractor’s risk and expense.
- 5.4 Each production batch must be accompanied by a certificate of conformance (CFC) that must indicate that the batch has passed internal conformance test U.S. MIL-STD-662F, Military Standard: V50 Ballistic Test for Armor, in relation to M80 ball projectile.