



National Defence

Défense nationale

National Defence Headquarters  
Ottawa, Ontario  
K1A 0K2

Quartier général de la Défense nationale  
Ottawa (Ontario)  
K1A 0K2

**REQUEST FOR INFORMATION  
DEMANDE DE  
RENSEIGNEMENTS**

**RETURN RFI TO:  
RETOURNER LES DDR À:**

Jason.larose@forces.gc.ca

**Proposal To: National Defence 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 and services listed herein and on any attached sheets at the price(s) set out therefore.

**Proposition à : Défense nationale 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 et services énumérés ici et sur toute feuille ci-annexée, au(x) prix indiqué(s).

**Solicitation Closes –  
L’invitation prend fin**

At – à :

**14 :00 / 2 :00 PM**

On - le :

**19/04/2019**

<b>Title/Titre</b> SMALL WATER FILTRATION UNIT / PETIT APPAREIL DE FILTRATION D’EAU	<b>RFI No – N° de DDR</b> W8485-205575
<b>Date of Solicitation – Date de l’invitation</b> 04/04/2019	
<b>Address Enquiries to – Adresser toutes questions à</b>  National Defence Headquarters 101 Colonel By Drive Ottawa ON K1A 0K2 Attn: Jason M. Larose, DAP 2-2-7 Jason.larose@forces.gc.ca	
<b>Telephone No. – N° de téléphone</b> 819-939-0825	<b>FAX No – N° de fax</b>

**Instructions:**

**Municipal taxes are not applicable. Unless otherwise specified herein all prices quoted must include all applicable Canadian customs duties, GST/HST, excise taxes and are to be delivered Delivery Duty Paid including all delivery charges to destination(s) as indicated. The amount of the Goods and Services Tax/Harmonized Sales Tax is to be shown as a separate item.**

**Instructions: Les taxes municipales ne s’appliquent pas. Sauf indication contraire, les prix indiqués doivent comprendre les droits de douane canadiens, la TPS/TVH et la taxe d’accise. Les biens doivent être livrés « rendu droits acquittés », tous frais de livraison compris, à la ou aux destinations indiquées. Le montant de la taxe sur les produits et services/taxe de vente harmonisée doit être indiqué séparément.**

Delivery required - Livraison exigée	Delivery offered - Livraison proposée
<b>NOT APPLICABLE / PAS APPLICABLE</b>	
Vendor Name and Address - Raison sociale et adresse du fournisseur	
Name and title of person authorized to sign on behalf of vendor (type or print) - Nom et titre de la personne autorisée à signer au nom du fournisseur (caractère d'imprimerie)	
Name/Nom _____	Title/Titre _____
Signature _____	Date _____

STATEMENT OF WORK  
FOR  
A  
SMALL WATER FILTRATION UNIT

## 1.0 SCOPE

### 1.1 Purpose.

The purpose of this Statement of Work (SOW) is to define requirements for the provisioning of a Small Water Filtration Unit (SWFU) for the Royal Canadian Air Force (RCAF).

### 1.2 Background.

Following the obsolescence of its legacy SWFU (NATO Stock Number (NSN): 4610-99-001-9947, PN: SWP-50), the RCAF elected to use chlorine water purification tablets (NSN: 6850-20-002-1961, P/N MICROPUR MP1) to disinfect and purify water in an emergency situation. The tablets are used in conjunction with the platypus water canteen (NSN 8465-01-518-9896, P/N 0760) and stored in Life Preserver pockets to be used when required in an emergency. Operational usage has determined that the continued use of the water purification tablet would require a supplemental filtration system that remove the particulates following disinfection and making the drinking water palatable, which would cause additional bulk to aircrew, and is undesirable.

As such, DND has a requirement for a Commercial Off The Shelf (COTS) SWFU that is mobile and compact to be stored in personal life preserver pocket and meets the mandatory requirements specified in this SOW to ensure potable water is available in emergency scenarios.

### 1.3 List of Acronyms and Abbreviations

Abbreviation	Description
COTS	Commercial Off The Shelf
DND	Department of National Defence
NSN	NATO Stock Number
PN	Part Number
RCAF	Royal Canadian Air Force
SOW	Statement of Work
SFWU	Small Water Filtration Unit

## 2.0 APPLICABLE DOCUMENTS

2.1 The following references are provided with the Request for Proposal. Where indicated, the following Standards shall be used for the preparation of deliverables to the extent specified in this SOW:

### 2.2 Specifications, Standards, and Publications:

Reference	Promulgation	Reference Title
D-01-100-211/SF-000	1991-06-01	SPECIFICATION – PRESERVATION, STORAGE AND HANDLING INSTRUCTION
D-LM-008-001/SF-001	1983-02-03	METHODS OF PACKAGING
D-LM-008-002/SF-001	1991-08-01	SPECIFICATION FOR MARKING FOR STORAGE AND SHIPMENT
D-LM-008-036/SF-000	2013-12-01	DND MINIMUM REQUIREMENT FOR MANUFACTURER'S STANDARD PACK

### 3.0 REQUIREMENTS

#### 3.1 General.

3.2 The proposed SWFU system shall meet the following mandatory technical criteria. The system:

3.2.1 Shall meet, or exceed, NSF Protocol P248 for reduction of microbiological contaminants and be effective against Bacteria, Virus, and Cysts (Giardia and Cryptosporidium)

3.2.2 Shall not require follow-on disinfection for potability

3.2.3 Shall offer multiple barriers to microbiological and chemical contaminants

3.2.4 Shall be able to treat 50 litres of water at 200 mL/min flow

3.2.5 Size shall not exceed a length by width by depth of 7 x 2 x 1.5 inches

3.2.6 Weight shall not exceed 100 grams

3.2.7 Shall provide performance monitoring and/or an warning or indicator at the end of element life to prevent production of contaminated water

3.2.8 Shall be operable at 0 to 3,000 meters above mean sea level

3.2.9 Shall be operable by end user with minimal training (no more than 1 hour of instruction)

3.2.10 Shall be operable in RCAF operational temperature ranges (0 to 45 °C)

3.2.11 Shall operate in a survival scenario without use of any power sources

3.2.12 Should be easily maintained by second line maintenance technicians (i.e. easily change filters, components etc.)

3.2.13 Should meet or be certificated to NSF/ANSI Protocols 53 and/or 58 for reduction of chemical contaminants

### 4.0 DELIVERABLE

4.1 The bidder shall provide three (s) samples that shall be used for technical evaluation. Samples from non-compliant bids shall be returned to the bidder.

4.2 Upon contract award, the bidder shall be able to provide maximum quantity 2000 within 6 months of contract award with follow-on sparing at maximum quantity 200/year for 3 years.