



National Defence

National Defence Headquarters
Ottawa, Ontario
K1A 0K2

Défense nationale

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

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

RETURN BIDS TO: RETOURNER LES SOUMISSIONS À :

Email – Courriel :
Kaman.Law@forces.gc.ca

Solicitation Closes - L'invitation prend fin

At - à :
2:00 PM - 14:00

On - le :
2022-01-26

Time Zone - Fuseau Horaire :
Eastern Standard Time (EST)
Heure normale de l'Est (HNE)

Title - Sujet Signal, Smoke and Illumination (Signal, Distress Day & Night No.1 MK5)		Amendment No. - N° modif. 001
Solicitation No. N° de l'invitation W8486-217639/A	Date of Amendment Date de modification 2022-01-10	
Address enquiries to: - Adresser toute demande de renseignements à : Kaman Law, DLP 3-1-6		
Telephone No. - N° de telephone 343-553-4368	E-Mail Address - Courriel Kaman.Law@forces.gc.ca	
Destination See herein - Voir aux présentes		

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 requested Livraison demandée See herein - Voir aux présentes	Delivery offered Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Person authorized to sign on behalf of Vendor/Firm (type or print): La personne autorisée à signer au nom du fournisseur/de l'entrepreneur (taper ou écrire en caractères d'imprimerie) :	
Name - Nom	Title - Titre
Signature	Date

THIS SOLICITATION AMENDMENT IS RAISED TO:

1. Provide clarification and answers to questions from potential suppliers;
2. Extend the solicitation closing date;
3. Modify the Attachment 1 to Part 4 – Evaluation Criteria;
4. Modify the Annex A – Requirement; and
5. Modify the Attachment 1 to Part 5 – Certifications and Additional Information.

QUESTIONS AND ANSWERS:

Question 1	In reference to Mandatory Technical Requirement A1 of the Attachment 1 to Part 4 – Evaluation Criteria of the Request for Proposal, would product that is 190mm in length be considered?
Answer 1	No, Mandatory Technical Requirement A1 is to remain at no more than 137mm in length in order to fit the item in survival kits. Section 3.2.2.1 of the Annex A – Requirement and Mandatory Technical Requirement A1 of the Attachment 1 to Part 4 – Evaluation Criteria are amended per the enclosed.

Question 2	In reference to Mandatory Technical Requirement A2 of the Attachment 1 to Part 4 – Evaluation Criteria of the Request for Proposal, would product that is 60mm in diameter be considered?
Answer 2	No, Mandatory Technical Requirement A2 is to remain at no more than 45mm in diameter in order to fit the item in survival kits. Section 3.2.2.2 of the Annex A – Requirement and Mandatory Technical Requirement A2 of the Attachment 1 to Part 4 – Evaluation Criteria are amended per the enclosed.

Question 3	In reference to Section 3.2.4 of the Annex A – Requirement and Mandatory Technical Requirements A9, A10, A11, A12 and A13 of the Attachment 1 to Part 4 – Evaluation Criteria of the Request for Proposal, it would be difficult to provide the Required Justification at time of bid closing. Would Canada consider amending the Requirement to allow for flexibility?
Answer 3	Recommendation accepted. Annex A – Requirement and Attachment 1 to Part 4 – Evaluation Criteria are amended per the enclosed.

Question 4	In reference to Mandatory Technical Requirements A15 of the Attachment 1 to Part 4 – Evaluation Criteria of the Request for Proposal, it would be difficult to provide the Required Justification at time of bid closing. Would Canada accept a written confirmation from the Bidder instead?
Answer 4	Recommendation accepted. Attachment 1 to Part 4 – Evaluation Criteria and Attachment 1 to Part 5 – Certifications and Additional Information are amended per the enclosed.

THIS SOLICITATION IS HEREBY AMENDED AS FOLLOWS:

- 1.1 DELETE from Page 1, Solicitation Closes - L'invitation prend fin, "2022-01-10", and REPLACE with "2022-01-26";
- 1.2 DELETE Attachment 1 to Part 4 – Evaluation Criteria in its entirety and REPLACE with Attachment 1 to Part 4 – Evaluation Criteria Rev A.

- 1.3 DELETE Annex A – Requirement in its entirety and REPLACE with Annex A – Requirement Rev A.
- 1.4 DELETE Attachment 1 to Part 5 – Certifications and Additional Information in its entirety and REPLACE with Attachment 1 to Part 5 – Certifications and Additional Information Rev A.

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.

ATTACHMENT 1 TO PART 4 - EVALUATION CRITERIA REV A

See attached document entitled:

“Compliance Verification Matrix – Signal, Smoke and Illumination (Signal Distress Day & Night No.1 MK5)”.

Compliance Verification Matrix – Signal, Smoke and Illumination (Signal Distress Day & Night No.1 MK5)

1. BID REQUIREMENTS

1.1 Bid Documentation

1.1.1 Bidders are requested to complete the following Compliance Verification Matrix and include it in their bid.

1.1.2. Documentation to support the required justification may include any or all of the following:

1.1.2.1. A system brochure that details the components and operating characteristics of the system;

1.1.2.2. Drawing or schematic which clearly depicts the product's dimensions and scale; and

1.1.2.3. Any additional documentation that provides product information.

1.2 Test Results

1.2.1. Where Test Results are required as part of the required justification, they must:

1.2.1.1. Be for the model offered or be for a previous model which the model offered is based upon, and include a detailed explanation why the results are valid for the model offered; and

1.2.1.2. Be signed by the technical authority that completed the testing.

1.2.1.3. Note: Test results may include the test data and summary, or just the summary confirming the system passed the tests. Canada reserves the right to verify the summary by requesting and reviewing the test data.

1 ID	2 Criteria	3 Product Requirements Signal, Smoke and Illumination (Signal Distress Day & Night No.1 Mk5) (Hereinafter referred to as Signal Distress D/N)	4 Required Justification	5 Information to be Provided by the Bidder a) Indicate if Criterion is Met or Not Met b) Specification Achieved by the Proposed Goods c) Justification Provided
A1	Physical Characteristic	The Signal Distress D/N must be no more than 137mm in length.	This must be demonstrated by including technical data, including that specified in Section 1.1.2 of this attachment or other technical documentation that clearly shows that it meets this requirement.	Sample Response: a) ____ Met. The proposed goods fully comply with this requirement; or ____ Not Met. b) The <u>(insert specification from Column 3)</u> for the proposed goods is <u>(detail specification achieved by proposed goods)</u> . c) The Documentation and/or Test Results for the proposed goods details the <u>(insert specification from Column 3)</u> and is included at Annex ____ of the Technical Bid.
A2	Physical Characteristic	The Signal Distress D/N must be no more than 45mm in diameter.	This must be demonstrated by including technical data, including that specified in Section 1.1.2 of this attachment or other technical documentation that clearly shows that it meets this requirement.	
A3	Performance Requirement	The Signal Distress D/N (FLARE) must produce a bright red flame.	This must be demonstrated by including technical data, including that specified in Section 1.1.2 of this attachment or other technical documentation that clearly shows that it meets this requirement.	
A4	Performance Requirement	The Signal Distress D/N (FLARE) must have a burn time of between 17 and 25 seconds.	This must be demonstrated by including technical data, including that specified in Section 1.1.2 of this attachment or other technical documentation that clearly shows that it meets this requirement. OR This must be demonstrated by providing test results as specified in Section 1.2.1 of this attachment.	
A5	Performance Requirement	The Signal Distress D/N (FLARE) must provide a minimum light intensity of at least 10,000 candelas and be visible from at least 5 km by day and 8 km by night.	This must be demonstrated by including technical data, including that specified in Section 1.1.2 of this attachment or other technical documentation that clearly shows that it meets this requirement. OR This must be demonstrated by providing test results as specified in Section 1.2.1 of this attachment.	

1 ID	2 Criteria	3 Product Requirements Signal, Smoke and Illumination (Signal Distress Day & Night No.1 Mk5) (Hereinafter referred to as Signal Distress D/N)	4 Required Justification	5 Information to be Provided by the Bidder a) Indicate if Criterion is Met or Not Met b) Specification Achieved by the Proposed Goods c) Justification Provided
A6	Performance Requirement	The Signal Distress D/N (SMOKE) must produce a dense orange smoke.	This must be demonstrated by including technical data, including that specified in Section 1.1.2 of this attachment or other technical documentation that clearly shows that it meets this requirement.	
A7	Performance Requirement	The Signal Distress D/N (SMOKE) produce must be between 15 and 25 seconds.	This must be demonstrated by including technical data, including that specified in Section 1.1.2 of this attachment or other technical documentation that clearly shows that it meets this requirement. OR This must be demonstrated by providing test results as specified in Section 1.2.1 of this attachment.	
A8	Performance Requirement	The Signal Distress D/N (SMOKE) must be visible from at least 5 km by day.	This must be demonstrated by including technical data, including that specified in Section 1.1.2 of this attachment or other technical documentation that clearly shows that it meets this requirement. OR This must be demonstrated by providing test results as specified in Section 1.2.1 of this attachment.	
A9	Environmental Requirement	The Signal Distress D/N must be waterproof to a depth of 30m.	This must be demonstrated by including technical data, including that specified in Section 1.1.2 of this attachment or other technical documentation that clearly shows that it meets this requirement. OR This must be demonstrated by providing test results as specified in Section 1.2.1 of this attachment.	
A10	Packaging Requirement	The Signal Distress D/N must have an approved Hazard Class and Compatibility Group from a National Competent Authority.	This must be demonstrated by providing a copy of a Certificate of Authorization and Classification of explosives from a National Competent Authority.	
A11	Service Life Requirement	The Signal Distress D/N must have a shelf life of at least 5 years.	This must be demonstrated by written confirmation from the Bidder.	
A12	Service Life Requirement	The Signal Distress D/N must have less than 6 months of age from the date of manufacture at time of delivery.	This must be demonstrated by written confirmation from the Bidder.	

ANNEX A – REQUIREMENT REV A

See attached document entitled:

“Statement of Work for Procurement of the Signal, Smoke and Illumination (Signal Distress Day & Night No.1 MK5)”

STATEMENT OF WORK

FOR

PROCUREMENT OF THE

Signal, Smoke and Illumination
(Signal Distress Day & Night No.1 Mk5)

Solicitation No. W8486-217639/A

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1. SCOPE

1.1 Purpose

1.1.1 The purpose of this Statement of Work (SOW) is to describe the Department of National Defence (DND) requirements for the acquisition and support of the Signal, Smoke and Illumination (Signal Distress Day & Night No.1 Mk5), hereinafter referred to as Signal Distress D/N.

1.2 Background

1.2.1 The Signal Distress D/N use survival signals for alerting potential rescuers of the position of an individual in distress. The waterproof tubular canister contains a flare at one end and a smoke signal on the other end. This signal is packaged in all life rafts aboard Canadian Forces (CF) aircraft and is also frequently carried by aircrews, soldiers in wilderness environments, and sailors deployed at sea.

1.2.2 DND In Service Item

Description: Signal Smoke & Illumination (Signal Distress Day & Night No.1 MK5)
NATO Stock Number: 1370-99-406-3426

1.3 List of Acronyms and Abbreviations

1.3.1 The following is a list of acronyms used in this document:

CF	Canadian Forces
CFAD	Canadian Forces Ammunition Depot
DND	Department of National Defence
EX Number	Export Number
NRCan	Natural Resources Canada
SOW	Statement of Work
S3	Safety and Suitability for Service
STANAG	NATO Standardization Agreement
TA	Technical Authority
TDP	Technical Data Package

2. APPLICABLE DOCUMENTS

2.1 General

2.1.1 The following references are provided. Where mentioned, they must be used for the preparation of deliverables to the extent specified in this SOW.

2.2 Referenced Documents

2.2.1 DND Specifications, Standards, and Publications:

2.2.1.1 D-09-002-010/SG-000, Assessment of the Safety and Suitability for Service of Ammunition and Explosives, 01 March 2007

2.2.2 Other Standards and Publications:

2.2.2.1 MIL-HDBK-61A Configuration Management Guidance (www.everyspec.com/)

2.3 Order of Precedence

2.3.1 In the event of a conflict between the content in this SOW and the referenced documents, the content of this SOW takes precedence.

3. REQUIREMENTS

3.1 General

3.1.1 The Contractor must supply a Signal Distress D/N and associated documentation meeting all requirements identified within this SOW.

3.2 Product Requirements

3.2.1 The proposed Signal Distress D/N must meet requirements identified within this section.

3.2.2 Dimensional Requirements. In order to fit into existing survival kits, the Signal Distress D/N must be:

3.2.2.1 no more than 137mm in length; and

3.2.2.2 no more than 45mm in diameter.

3.2.3 Performance Requirements. The Signal Distress D/N must include a:

3.2.3.1 Flare unit that must:

3.2.3.1.1 produce a bright red flame;

3.2.3.1.2 have a burn time of between 17 and 25 seconds; and

3.2.3.1.3 provide a minimum light intensity of at least 10,000 candelas visible from at least 5 km by day and 8 km by night.

3.2.3.2 Smoke unit that must:

3.2.3.2.1 produce a dense orange smoke;

3.2.3.2.2 have a smoke duration of between 15 and 25 seconds; and

3.2.3.2.3 be visible from at least 5 km by day.

3.2.4 Environmental Requirements. The Signal Distress D/N must:

3.2.4.1 be waterproof to a depth of 30m.

3.2.5 Packaging Requirements. The Signal Distress D/N must have an approved Hazard Class and Compatibility Group from a National Competent Authority.

3.2.6 Service Life Requirements. The Signal Distress D/N must:

3.2.6.1 have a shelf life of at least 5 years; and

3.2.6.2 have less than 6 months of age from the date of manufacture at time of delivery.

3.3 Safety and Suitability for Service (S3) Documentation Requirements

3.3.1 The Contractor must provide all available qualification test results and reports relating to the essential performance, environmental, packaging, and service life requirements detailed in Section 3.2

3.3.2 S3 Assessment. DND will conduct a S3 assessment in accordance with Ref 2.2.1.1 based on the data, information, test results, and reports to be provided by the Contractor. To further support the S3 assessment, the Contractor must provide the following information for the Signal Distress D/N:

3.3.2.1 storage and operational temperature limits;

3.3.2.2 initial service life limits, including shelf life and installed life, if available;

3.3.2.3 range safety template or firing template, if available;

3.3.2.4 name and mass of energetic materials;

3.3.2.5 mitigating measures for ensuring the item's safety and suitability for service throughout its life cycle, if applicable; and

3.3.2.6 instructions on methods of disposal and render safe procedures.

- 3.3.2.7 unpackaged drop height after which the item is able to function at and does not show any evidence of damage, if available.
- 3.3.2.8 vibrations the item can withstand from the following modes of transportation without showing any evidence of damage (if available): shipboard, jet aircraft cargo, helicopter cargo, ship and tactical wheeled vehicle – all terrain.

3.4 Technical Documentation Requirements

3.4.1 The Contractor must provide a limited Technical Data Package (TDP) that contains the following technical documentation for the Signal Distress D/N:

- 3.4.1.1 NCAGE if available;
- 3.4.1.2 Name and address of the true manufacturer, or Design Control Authority;
- 3.4.1.3 Manufacturer's unique bar code number if available;
- 3.4.1.4 Manufacturer's unique part number and level 2 drawings for cataloging purposes;

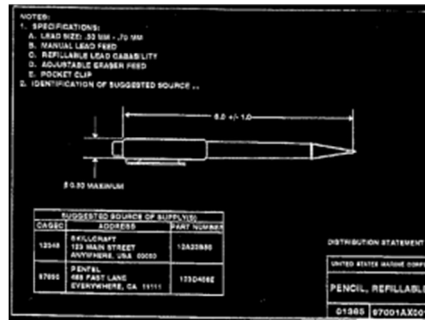


Fig 1. Example of a Level 2 drawing

- 3.4.1.5 NATO Stock Number (NSN) if available;
- 3.4.1.6 Safety Data Sheet including detailed chemical composition with amounts;
- 3.4.1.7 A copy of the Natural Resources Canada (NRCAN) Authorization and Classification Certificate for the Signal Distress D/N that has been approved by the Chief Inspector of Explosives from the NRCAN Explosives Safety and Security Branch (ESSB);
- 3.4.1.8 United States Department of Transport Explosive Registration Number (EX number) in accordance with the Contract;
- 3.4.1.9 Confirmation of approved packaging in accordance with Transport Canada and/or UN regulations; and
- 3.4.1.10 Technical documentation required to create a Canadian Forces Technical Order, including:
 - 3.4.1.10.1 general description of item and components;
 - 3.4.1.10.2 technical specifications and product data sheet;
 - 3.4.1.10.3 description of how the item functions/works; and
 - 3.4.1.10.4 description of packaging including material, quantity, mass and Net Explosive Weight (NEW) or Net Explosive Quantity (NEQ). Include inner and outer packaging as applicable; and
 - 3.4.1.10.5 diagrams or engineering drawing of Sectional View, Markings, and Packaging.

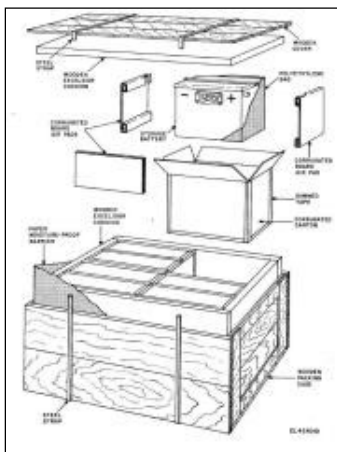


Fig 2. Example of a diagram of packaging

3.4.2 NRCan – Authorization for Explosives:

3.4.2.1 Any Explosives, as defined in section 2 of the *Explosives Act* R.S.C., 1985, c. E-17, that as part of the Work, are to be imported into, manufactured, transported, stored, possessed, delivered, or used in Canada must appear on the List of Authorized Explosives or be covered by a permit, certificate or special authority issued by the Explosives Regulatory Division of Natural Resources Canada (NRCan). Information concerning applications and requests for Authorization and Classification Certificates can be found at:

<https://www.nrcan.gc.ca/science-data/research-centres-labs/canadian-explosives-research-laboratory/9855>

3.4.2.2 The Contractor must ensure that the NRCan Authorization and Classification Certificate for the Signal Distress D/N remains valid for the manufacture (if applicable), import (if applicable), transport, delivery, and use of the goods under the Contract.

3.5 **Configuration Control**

3.5.1 The Contractor must have an established, DND verifiable, Configuration Management (CM) Program with control systems in place in accordance with MIL-HDBK-61A or alternate CM Program, and must provide configuration identification, control and status accounting of all new and/or modified hardware, firmware, software and documentation. All Signal Distress D/N delivered must have the same product baseline. The established product baseline must be maintained during warranty repair and any deviation from the baseline must be approved in advance by the TA.

3.6 **Ammunition Data Cards**

3.6.1 The Contractor must prepare the ammunition data cards in accordance with the Contract (Annex E).

3.7 **Lotting Instructions**

3.7.1 The Contractor must prepare the ammunition lot numbers in accordance with the Contract (Annex C).

3.8 **Packaging Marking Instructions**

3.8.1 The Contractor must prepare the ammunition packaging markings in accordance with the Contract (Annex D).

4. DELIVERABLES

4.1 General

Item	Item Description	Quantity	Delivery Dates (on or before)	Delivery Location	Controlled Goods (CTAT or ITARS)	Quality Assurance Code
Firm 1	Signal Distress Day & Night No.1 Mk5	2,880	01 June 2022	CFAD Dundurn	Yes	Q
Opt 1		2,880	01 Mar 2023			
Firm 2		2,880	01 Mar 2024			
Opt 2		2,880	01 Mar 2025			
Firm 3		2,880	01 Mar 2026			
Opt 3		2,880	01 Mar 2027			

4.2 S3 Data

4.2.1 The Contractor must deliver the S3 documentation within ninety (90) days after contract award or ninety (90) days before the first delivery of the goods as identified in Section 4.1, whichever occurs first. All of the S3 documentation listed in Section 3.3 must come in one complete package. The Contractor must deliver one digital copy of the S3 documentation in Word or PDF format to the Technical Authority (TA) at the address identified in the Contract.

4.3 Technical Data

4.3.1 The Contractor must deliver a limited TDP within ninety (90) days after contract award or ninety (90) days before the first delivery of the goods as identified in Section 4.1, whichever occurs first. All of the technical documentation listed in Section 3.4 must come in one complete package. The Contractor must deliver one digital copy of the TDP in Word or PDF format to the TA at the address identified in the Contract.

ATTACHMENT 1 TO PART 5 - CERTIFICATIONS AND ADDITIONAL INFORMATION **REV A**

1. Compliance Certifications

A. The Bidder hereby certifies that the proposed goods:

- (i) must have a shelf life of at least 5 years.
- (ii) must have less than 6 months of age from the date of manufacture at time of delivery.

Signature of Bidder's Authorized Representative

Date