

**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 MULTI-GAS DETECTOR KITS	
Solicitation No. - N° de l'invitation W8486-136425/A	Date 2012-10-04
Client Reference No. - N° de référence du client W8486-136425	
GETS Reference No. - N° de référence de SEAG PW-\$\$PV-935-61332	
File No. - N° de dossier pv935.W8486-136425	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-11-13	Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Anderson, Karen	Buyer Id - Id de l'acheteur pv935
Telephone No. - N° de téléphone (819) 994-1928 ()	FAX No. - N° de FAX (819) 994-0894
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

Scientific, Medical and Photographic Division / Division de
l'équipement scientifique, des produits photographiques et
pharmaceutiques
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	

Destination Code - Code destinataire	Destination Address - Adresse de la destination	Invoice Code - Code bur.-comptable	Invoice Address - Adresse de facturation
D - 1	To be determined CANADA	W8486	DEPARTMENT OF NATIONAL DEFENCE 101 COLONEL BY DR. ATT: P. LIZOTTE DLP 3-4-1 OTTAWA Ontario K1A0K2 Canada
WB941	DEPARTMENT OF NATIONAL DEFENCE CFSD MONTREAL 6363 RUE NOTRE DAME ST E. MONTREAL Quebec H1N1V9 Canada	W8486	DEPARTMENT OF NATIONAL DEFENCE 101 COLONEL BY DR. ATT: P. LIZOTTE DLP 3-4-1 OTTAWA Ontario K1A0K2 Canada

Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire FOB/FAM		Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
1	MGDK - CSE	WB941	W8486	170	Each	\$		XXXXXXXXXXXX	See Herein	
2	MGDK - CSE Calibration Gas Cylinder	WB941	W8486	170	Each	\$		XXXXXXXXXXXX	See Herein	
3	MGDK - CSE Operator Training	WB941 D - 1 Total	W8486 W8486	0 35 35	Each Each Each	\$ \$ \$		XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX	See Herein See Herein	
4	MGDK - CSE Initial Cadre Training	WB941 D - 1 Total	W8486 W8486	0 2 2	Each Each Each	\$ \$ \$		XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX	See Herein See Herein	
5	MGDK-HVOC	WB941 D - 1 Total	W8486 W8486	80 0 80	Each Each Each	\$ \$ \$		XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX	See Herein See Herein	
6	MGDK - HVOC Calibration Gas Cylinder	WB941 D - 1 Total	W8486 W8486	80 0 80	Each Each Each	\$ \$ \$		XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX	See Herein See Herein	
7	MGDK - CSE & HVOC Docking Station	WB941 D - 1 Total	W8486 W8486	44 0 44	Each Each Each	\$ \$ \$		XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX	See Herein See Herein	
8	MGDK - HVOC Operator Training	WB941 D - 1 Total	W8486 W8486	0 35 35	Each Each Each	\$ \$ \$		XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX	See Herein See Herein	

Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire		Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
						Destination	FOB/FAM			
9	MGDK - HVOC Initial Cadre Training	WB941 D - 1 Total	W8486 W8486	0 3 3	Each Each Each	\$ \$ \$	XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX		See Herein See Herein	
10	MGDK - CSE	WB941 D - 1 Total	W8486 W8486	180 0 180	Each Each Each	\$ \$ \$	XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX		See Herein See Herein	
11	MGDK - CSE Calibration Gas Cylinde r	WB941 D - 1 Total	W8486 W8486	180 0 180	Each Each Each	\$ \$ \$	XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX		See Herein See Herein	
12	MGDK - HVOC	WB941 D - 1 Total	W8486 W8486	122 0 122	Each Each Each	\$ \$ \$	XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX		See Herein See Herein	
13	MGDK - HVOC Calibration Gas Cylind er	WB941 D - 1 Total	W8486 W8486	122 0 122	Each Each Each	\$ \$ \$	XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX		See Herein See Herein	
14	MGDK - CSE & HVOC Docking Station	WB941 D - 1 Total	W8486 W8486	26 0 26	Each Each Each	\$ \$ \$	XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX		See Herein See Herein	
15	MGDK - CSE Consumables - As requir ed	WB941 D - 1 Total	W8486 W8486	0 1 1	Each Each Each	\$ \$ \$	XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX		See Herein See Herein	

Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire FOB/FAM		Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
16	MGDK -CSE & HVOC Consumables	WB941 D - 1 Total	W8486 W8486	0 1 1	Each Each Each	\$ \$ \$		XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX	See Herein See Herein	
17	MGDK - CSE Option Quantities	WB941 D - 1 Total	W8486 W8486	200 0 200	Each Each Each	\$ \$ \$		XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX	See Herein See Herein	
18	MGDK - CSE Option - Consumables - 3 yrs	WB941 D - 1 Total	W8486 W8486	0 1 1	Each Each Each	\$ \$ \$		XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX	See Herein See Herein	
19	MGDK - CSE Option Operator Trainin g	WB941 D - 1 Total	W8486 W8486	0 10 10	Each Each Each	\$ \$ \$		XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX	See Herein See Herein	
20	MGDK - CSE Option Initial Cadre Tr aining	WB941 D - 1 Total	W8486 W8486	0 6 6	Each Each Each	\$ \$ \$		XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX	See Herein See Herein	
21	MGDK - CSE & HVOC Option	WB941 D - 1 Total	W8486 W8486	100 0 100	Each Each Each	\$ \$ \$		XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX	See Herein See Herein	
22	MGDK - CSE & HVOC Consumables	WB941 D - 1 Total	W8486 W8486	1 0 1	Each Each Each	\$ \$ \$		XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX	See Herein See Herein	

Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire		Del. Offered Liv. offerte
						Destination	FOB/FAM Plant/Usine	
23	MGDK - CSE & HVOC Option Docking Station	WB941	W8486	35	Each	\$	XXXXXXXXXXXXXX	See Herein See Herein
		D - 1	W8486	0	Each	\$	XXXXXXXXXXXXXX	
		Total		35	Each	\$	XXXXXXXXXXXXXX	
24	MGDK - CSE & HVOC Option Training	WB941	W8486	10	Each	\$	XXXXXXXXXXXXXX	See Herein See Herein
		D - 1	W8486	0	Each	\$	XXXXXXXXXXXXXX	
		Total		10	Each	\$	XXXXXXXXXXXXXX	
25	MGDK - CSE & HVOC Option ICT	WB941	W8486	6	Each	\$	XXXXXXXXXXXXXX	See Herein See Herein
		D - 1	W8486	0	Each	\$	XXXXXXXXXXXXXX	
		Total		6	Each	\$	XXXXXXXXXXXXXX	

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PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with the requirement.

2. Requirement

The Work to be performed is detailed under Article 2 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 (2012-07-16) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

The text under Subsection 4 of Section 01 - Code of Conduct and Certifications - Bid of 2003 referenced above is replaced by:

Bidders should provide, with their bid or promptly thereafter, a complete list of names of all individuals who are currently directors of the Bidder. If such a list has not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to provide such a list within the required time frame will render the bid non-responsive. Bidders must always submit the list of directors before contract award.

Canada may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (Consent to a Criminal Record Verification form - PWGSC-TPSGC 229) (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaire-forms-eng.html>) for any or all individuals named in the aforementioned list within a specified delay. Failure to provide such Consent Forms within the delay will result in the bid being declared non-responsive.

The text under Subsection 5 of Section 01 - Code of Conduct and Certifications - Bid of 2003 referenced above is replaced by:

The Bidder must diligently maintain the list up-to-date by informing Canada in writing of any change occurring during the validity period of the bid, and must also provide Canada, when requested, with the corresponding Consent Forms. The Bidder will also be required to diligently maintain the list and when requested, provide Consent Forms during the period of any contract arising from this bid solicitation.

1.1 SACC Manual Clauses

B1000T (2007-11-30), Condition of Material

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 ten (10) 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

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.

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)

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

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

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

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement

(<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders are encouraged to:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and/or 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.

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.

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) must 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.

1.1 Technical Evaluation - Refer to Annex C

1.1.1 Mandatory Technical Criteria

1.1.2 Point Rated Technical Criteria

1.2 Financial Evaluation

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

2. Basis of Selection

2.1 Lowest Price Per Point

1.To be declared responsive, a bid must:

- a.comply with all the requirements of the bid solicitation;
- b.meet all mandatory technical evaluation criteria; and
- c.obtain the required minimum points for the technical evaluation criteria which are subject to point rating.

2.Bids not meeting (a) or (b) or (c) will be declared non-responsive. Neither the responsive bid that receives the highest number of points nor the one that proposed the lowest price will necessarily be accepted. The responsive bid with the lowest evaluated price per point will be recommended for award of a contract.

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications to be awarded a contract. Canada will declare a bid non-responsive if the required certifications 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 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 or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

1. Code of Conduct Certifications - Certifications Required Precedent to Contract Award

- 1.1 Bidders should provide, with their bid or promptly thereafter, a complete list of names of all individuals who are currently directors of the Bidder. If such a list has not been received by the time the evaluation of bids is completed, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Bidders must submit the list of directors before contract award, failure to provide such a list within the required time frame will render the bid non-responsive.

The Contracting Authority may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (Consent to a Criminal Record Verification form - PWGSC-TPSGC 229) (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html>) for any or all

individuals named in the aforementioned list within a specified delay. Failure to provide such Consent Forms within the delay will result in the bid being declared non-responsive.

2. 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

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 Contracts 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, 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 HRSDC Web site.

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement associated with the requirement.

2. Requirement

The Department of National Defence (DND) has a requirement for the supply of Multi-Gas Detector Kits as detailed at Annex A and Annex C.

3. Standard Clauses and Conditions

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

3.1 General Conditions

2010A (2012-07-16), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

The text under Subsection 4 of Section 29 - Code of Conduct and Certifications - Contract of 2010A referenced above is replaced by:

During the entire period of the Contract, the Contractor must diligently update, by written notice to the Contracting Authority, the list of names of all individuals who are directors of the Contractor whenever there is a change. As well, whenever requested by Canada, the Contractor must provide the corresponding Consent Forms.

4. Term of Contract

4.1 Period of the Contract

The Contract is valid from the date of contract award to 31 March 2014.

4.2 Option to Extend the Contract

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex A, Annex B, Annex C and Annex D of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option at any time before the expiry of the Contract by sending a written notice to the Contractor.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Karen Anderson
Public Works and Government Services Canada
Acquisitions Branch
Commercial Consumer Products Directorate
11 Laurier Street, 6A2, Phase III
Place du Portage, Hull, Quebec, K1A 0S5
Telephone: (819) 994-1928
Facsimile: (819) 994-0894
E-mail address: Karen.Anderson@tpsgc-pwgs.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 The Technical Authority for the Contract is:

The Technical Authority for the Contract is:

National Defence Headquarters
Mgen Pearkes Bldg
101 Colonel By Drive
Ottawa, Ontario
K1A 0K2
Attention: _____, DCSEM 5-3-3
Phone: 819-994-4698
Fax: 819-994-1573
E-mail: _____@forces.gc.ca

The Technical Authority named above 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 Requisition Authority

The Requisition Authority for the contract is:

National Defence Headquarters
 Mgen Pearkes Bldg
 101 Colonel By Drive
 Ottawa, Ontario
 K1A 0K2
 Attention: _____, DLP 9-5-5
 Phone: 819-997-2372
 Fax: 819-994-0894
 E-mail: _____@forces.gc.ca

The Requisitioning Authority is responsible for DND Contract Management. It is the only organization that can request PWGSC to authorize additional work against the Contract.

5.4 Contractor's Representative

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

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 B and Annex D. 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.

6.4 SACC Manual Clauses

SACC Reference	Section	Date
H1001C	Multiple Payment	2008-05-12

7. Invoicing Instructions

The Contractor must submit invoices in accordance with the information required in Section 10, Invoice Submission of the 2010A General Conditions - Goods.

Distribution:

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

Department of National Defence
 Mgen George R. Pearkes Bldg

101 Colonal By Drive
Ottawa, ON
K1A 0K2
Attn: DLP 9-5-5

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

(c) One copy must be sent with the shipment.

8. Certifications

8.1 Compliance with the certifications 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 or 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.

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 (2012-07-16);
- (c) Annex A & Annex C - Statement of Work;
- (d) the Contractor's bid dated _____ .

11. Defence Contract

SACC Manual clause A9006C (2012-07-16), Defence Contract

12. SACC Manual Clauses

SACC Reference	Section	Date
A1009C	Work Site Access	2008-05-12
A9131C	Controlled Goods Program	2011-05-16
B1501C	Electrical Equipment	2006-06-16
B4060C	Controlled Goods	2011-05-16
D2025C	Wood Packaging Materials	2008-12-12
D3010C	Dangerous Goods/Hazardous Products	2012-07-16
D3015C	Dangerous Goods/Hazardous Products	2007-11-30
D5328C	Inspection and Acceptance	2007-11-30
D5545C	ISO 9001:2008 Quality Management Systems -	2010-08-16

	Requirements (QAC C)	
D6010C	Palletization	2007-11-30
D9002C	Incomplete Assemblies	2007-11-30

13. Existing Technical Publications - Translation

The Contractor grants to Canada a non-exclusive, perpetual, irrevocable and royalty-free license to translate and reproduce for government use all or any part of the technical publications supplied with the equipment delivered under the Contract. Copyright in the translation made by Canada or by independent contractors engaged by Canada will belong to Canada.

14. Shipping Instructions

Goods must be consigned and delivered to the destination specified in the contract:

Incoterms 2000 "DDP Delivered Duty Paid", in accordance with Annex B and Annex D.

15. Preparation for Delivery

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

The Contractor must package items in a quantity of 1 by package.

ANNEX A

STATEMENT OF WORK

**MULTI-GAS DETECTOR KIT
FOR
CONFINED SPACE ENTRY**

21 August 2012



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées.

1.0 Scope.

1.1. Purpose

The Department of National Defence has a requirement for a quantity of up to three hundred and seventy-five (375) Multi-Gas Detector Kits for Confined Space Entry. The purpose of this Statement of Work (SOW) is to define the requirement and to provide the technical, training and support requirements.

1.2. Background

1.2.1 The Department of National Defence (DND) has a requirement for a multi-gas detector that will continuously measure the presence of oxygen, explosive vapours and hazardous substances in confined spaces that are known to exceed the safe concentrations identified in the Canada Occupational Health and Safety Regulations under the Canada Labour Code. At present there are in excess of four-hundred and fifty (450+) confined space entry kits used by firefighters, linesmen, navy hull technicians, construction engineers, fuel and environment technicians and various other construction engineering trades. The required kit will be used by the CF Firefighters and Navy Hull Technicians.

1.2.2 The Multi-Gas Detector Kit is expected to have an in-service life expectancy of 10 years from date of delivery. *This shall not be interpreted as a requirement to provide any specific parts or service support, but rather as a statement of DND's intent, which is to procure a reliable and supportable Confined Space entry kit.*

1.3. Terminology

AC	Alternating Current
ACGIH	American Conference of Governmental Industrial Hygienists
Bilingual	Canadian official languages, English and French
CD	Compact Disk
CF	Canadian Forces
CFB	Canadian Forces Base
CFTO's	Canadian Forces Technical Orders
CO	Carbon Monoxide
CSA	Canadian Standards Association
DND	Department of National Defence
DVD	Digital Versatile Disc (formerly Digital Video Disk)
EMC	Electro-Magnetic Compatibility
EMI	Electro-Magnetic Interference
EU	European Union
H ₂ S	Hydrogen Sulfide
ICT	Initial Cadre Training
IEC	International Electrotechnical Commission
IP	Ingress Protection (Rating)

K FACTORS	Correction factors
LCD	Liquid Crystal Display
LEL	Lower Exposure Level
MSDS	Material safety Data Sheet
NSN	NATO Stock Number
O ₂	Oxygen
ppm	parts per million
PC	Personal Computer
PID	Photo-Ionizing Detection
QA	Quality Assurance
QC	Quality Control
QAP	Quality Assurance Plan
QAR	Quality Assurance Representative
RFI	Radio Frequency Interference
RFP	Request for Proposal
RSPL	Recommended Spare Parts List
SOW	Statement of Work
STEL	Short Term Exposure Limit
TAC	Technical Accuracy Certificate
TAT	Turn Around Time
TLVs	Threshold Limit Value
TWA	Time Waited Average
USB	Universal Serial Bus

2. 0. Applicable Documents.

2.1. Applicability

- 2.1.1. The following documents of the exact issue and their current revision form a part of the Statement of Work (SOW) to the extent specified herein. In the event of conflict between the documents referenced herein and the content of the SOW, the content of the SOW shall apply.

2.2. Canadian Forces Technical Orders (CFTOs)

- 2.2.1. D-01-100-207/SF-000 - Specification - Preparation of Parts Identification Lists
- 2.2.2. D-LM-008-036/SF-000 - DND Minimum Requirement for Manufacturers Standard Pack
- 2.2.3. C-01-100-100/AG-005 - Adaptation of commercial and Foreign Government Publications
- 2.2.4. D-02-006-008/SG-001 - Design Change Procedures

2.3. Standards

- 2.3.1. General Safety Standards – Chapter 7, Annex A Hazardous Confined Spaces Directive, 1 Jan 2003 in C-02-040-009/AG-001
- 2.3.2. CSA Standard C22.2 No. 157-92 Intrinsic Safety
- 2.3.3. CSA Standard C22.2 No.152 – M1984 Combustible Gas Detection
- 2.3.4. IEC or EU Directive 2004/108/CE Electromagnetic Compatibility
- 2.3.5. IP 65
- 2.3.6. Electro-Magnetic Compatibility (EMC) directive 89/336/ECC

2.4. Government Regulations

- 2.4.1. Canada Occupational Health and Safety Regulations (SOR/86-304); Section 11.4 – Confined Space Entry

2.5. Definitions

- 2.5.1. The Multi-Gas Detector Kit for Confined Space Entry (qty 375) shall include the monitor and all ancillary equipment identified below:
 - 2.5.1.1. sampling pump;
 - 2.5.1.2. batteries and battery charger;
 - 2.5.1.3. calibration kit;
 - 2.5.1.4. data down loading kit
 - 2.5.1.5. operator's manual/CD (hard and soft copy);
 - 2.5.1.6. laminated fault finding chart;
 - 2.5.1.7. kit checklist;
 - 2.5.1.8. consumables list; and
 - 2.5.1.9. carrying case.

3.0 Requirements

All essential requirements are identified with “shall” statements. Any equipment not meeting these requirements will be found non compliant. All desirable requirements are indicated with a “should” statement. These requirements are not mandatory, however they are requested and if available should be included with the equipment when bidders submit their response.

3.1. Multi-Gas Detector Kit Essential Characteristics

- 3.1.1. Monitor
 - The monitor shall be:
 - 3.1.1.1. hand held and capable of providing accurate and instant results with alarms and continuous displays;

- 3.1.1.2. provided with an adjustable, removable carrying harness enabling the monitor to be worn comfortably on the chest, shoulder and on the waist;
- 3.1.1.3. capable of being turned on-off, mode changed, zeroed and calibrated and be easily manipulated while the operator is wearing protective gloves;
- 3.1.1.4. a hand held portable instrument with 4-sensors, and shall have the capability of adding a 5th sensor

NOTE:

Due to the lowering of the ACGIH level of detection of H₂S it is our understanding that combined CO/ H₂S sensors are presently unable to detect H₂S at the recommended levels. For this reason we believe that a fifth sensor may have to be fitted. We rely on the bidders to recommend whether a fifth sensor is required to meet the requirements as outlined within the SOW.

- 3.1.1.5. a microprocessor based technology, with a push button control panel;
- 3.1.1.6. provided with audible, vibration, and visible alarms. As a minimum there must be audible and visible alarms for faulty sensors, low battery, circuit failure and low pump flow;
- 3.1.1.7. capable of being powered by both a rechargeable and a non-rechargeable commercially available battery power source;
- 3.1.1.8. provided with a protective outer shell resistant to natural elements;
- 3.1.1.9. designed such that a diagnostic check is performed as part of the start-up routine, that as a minimum shall verify correct operation of the audible and visual alarms, electronic circuits, the battery state of charge, sensor status and indicate which sensors are installed;
- 3.1.1.10. manufactured from materials that shall be sufficiently corrosion resistant to withstand the marine environment during the useful life of the kit and the hazardous atmosphere that the kit is exposed to during operation;
- 3.1.1.11. capable of operating over a temperature range of -10 degrees Celsius to +40 degrees Celsius;
- 3.1.1.12. capable of operating within a humidity range of 15% to ninety percent 90%, non-condensing within the temperature range specified in Para. 3.1.1.11;
- 3.1.1.13. water and dirt resistant In Accordance With (IAW) Ingression Protection (IP) 65;

- 3.1.1.14. Canadian Standards Association (CSA) certified as intrinsically safe IAW C22.2 No. 157-92 to Class I, Division 1, Groups A, B, C and D;
- 3.1.1.15. Electro-Magnetic Interference (EMI) and Radio Frequency Interference (RFI) certified IAW Electro-Magnetic Compatibility (EMC) directive 89/336/ECC; and
- 3.1.1.16. capable of data transfer with a Personal Computer (PC).
- 3.1.2. Display
The monitor display shall be:
 - 3.1.2.1. of the Liquid Crystal Display (LCD) type, with readout of a minimum of 5-sensor readings, peak gas readings, alarm conditions, fault conditions, date and time, low battery, elapsed time and operator prompt messages;
 - 3.1.2.2. designed with a minimum character height that can easily viewed by the operator;
 - 3.1.2.3. designed with a display back light that will automatically turn on in low light conditions;
 - 3.1.2.4. capable of showing all 5 channel readouts simultaneously, with minimum display ranges as follows:
 - 3.1.2.4.1. 0 - 25% for O₂ (oxygen);
 - 3.1.2.4.2. 0 - 500 ppm for CO (carbon monoxide);
 - 3.1.2.4.3. 0 - 50 ppm for H₂S (hydrogen sulphide); and
 - 3.1.2.4.4. 0 - 100% LEL for explosive gases
 - 3.1.2.5. designed with the capability of displaying either French or English language prompts.
- 3.1.3. Sensors
The monitor shall be:
 - 3.1.3.1. provided with standard 4-sensor types (listed below) as a minimum with the capability to add a 5th sensor. The standard-4 sensors shall be capable of detecting the following:
 - 3.1.3.1.1. oxygen;
 - 3.1.3.1.2. carbon monoxide;
 - 3.1.3.1.3. hydrogen sulphide; and
 - 3.1.3.1.4. LEL of explosive gases (catalytic bead sensor).

- 3.1.3.2. capable of supporting optionally available sensors (but not to be included in the kits) that can measure and detect sulphur dioxide, ammonia, nitric oxide, chlorine, nitrogen dioxide, and hydrogen cyanide;
- 3.1.3.3. designed such that the sensors are easily replaceable in the field, requiring no more than a screwdriver to change the sensors that shall be easily accessible, without substantial disassembly of the monitor;
- 3.1.3.4. capable of accurately monitoring the target gases by simple infusion of the surrounding atmosphere, or by reaction to a remote sample which is pumped into the sensor housing;
- 3.1.3.5. provided with sensors with a minimum 2 year shelf life;
- 3.1.3.6. capable to detect and initiate alarms for the standard gases preset to the DND alarm points and the current American Conference of Governmental Industrial Hygienists (ACGIH) TLVs as follows:
 - 3.1.3.6.1. Oxygen: 22.0% high & 20% low
 - 3.1.3.6.2. Carbon monoxide: Ceiling200 ppm
STEL50 ppm
TWA25 ppm
 - 3.1.3.6.3. Hydrogen Sulphide: Ceiling10 ppm
STEL5 ppm
TWA1 ppm
 - 3.1.3.6.4. LEL 10%
- 3.1.3.7. capable of having all sensor alarm limits set or reset by the operator.
- 3.1.4. Sampling Pump
The sampling pump shall be:
 - 3.1.4.1. easily fitted to the monitor with the use of common tools such as screwdrivers or wrenches;
 - 3.1.4.2. provided with a 6 m and a 10 m suction hose made from chemically resistant material including filter and probe;
 - 3.1.4.3. fitted with a liquid shut down system to exclude the ingestion of fluids;
 - 3.1.4.4. fitted with an audible and a visual low flow alarm for the mechanical sampling pump;
 - 3.1.4.5. CSA certified as intrinsically safe IAW CSA C22.2 No. 157-92 to Class I, Division 1, Groups A, B, C and D;

- 3.1.4.6. EMC/RFI certified IAW EMC directive 89/336/ECC; and
- 3.1.4.7. capable of being turned “On” & “Off” automatically when the monitor is turned “On” & “Off”.
- 3.1.5. Rechargeable Batteries and Battery Charger
 - 3.1.5.1. The rechargeable battery capacity shall support a minimum 10 hour run-time without the sampling pump and a minimum of 8 hours with the pump and back light on.
 - 3.1.5.2. A 110 volt 60 hertz AC battery charger shall be provided capable of charging and trickle charging of the monitor battery.
 - 3.1.5.3. Lights that indicate when the battery is charging, and when charging is complete, shall be mounted on the battery charger;
 - 3.1.5.4. The maximum recharging time shall be 6 hours.
 - 3.1.5.5. A battery holder assembly for commercially available batteries, shall also be provided (if required).
 - 3.1.5.6. Alarm points, data and set-up variables shall be maintained in memory by a secondary battery with a minimum 5 year life.
- 3.1.6. Calibration Kit
The calibration kit shall:
 - 3.1.6.1. include a valve type flow regulator;
 - 3.1.6.2. contain all the necessary hoses, fittings and attachments;
 - 3.1.6.3. have all its components fitted into the main carrying case.
- 3.1.7. Calibration Cylinders
The calibration cylinders shall be:
 - 3.1.7.1. supplied separately and packaged accordingly from the Calibration Kit;
 - 3.1.7.2. metal cylinders containing appropriate compressed calibration gas for the standard 4-sensor configuration;
 - 3.1.7.3. filled with calibration gas which has a shelf life of 1 year minimum (from date of delivery);
 - 3.1.7.4. bilingually labelled with the expiry date clearly marked on the cylinder;

- 3.1.7.5. bilingually labelled to identify the full name of the constituent gases, as well as the appropriate % LEL and ppm units;
- 3.1.7.6. provided with a bilingual Material Safety Data Sheet (MSDS) included with the gas cylinder; and
- 3.1.7.7. of a sufficient volume of gas to provide for 40 standard calibrations.
- 3.1.8. Data Logging & Data Transfer
 - 3.1.8.1. The monitor shall have a minimum data logging capability of 40 hours at 1 minute intervals for all 5 channels.
 - 3.1.8.2. The logged data shall include: date, time, instantaneous readings and calibration dates.
 - 3.1.8.3. The kit shall contain all the necessary cables, adapters for downloading of stored monitoring data onto a printer and/or PC.
 - 3.1.8.4. The kit shall include any data downloading software required on a CD/DVD.
 - 3.1.8.5. The kit shall include bilingual (English & French) data logging and data transfer instructions if they are not included in the main operators manual.
 - 3.1.8.6. The monitor shall be provided with either a USB 2.0 (minimum) port or an interface cable to allow for a connection with a USB 2.0 device, as well as any required software.
- 3.1.9 Carrying Case
 - 3.1.9.1 A water resistant hard shell carrying/transport case shall be provided with each kit. The monitor and all ancillary equipment identified in Para. 2.5.1 shall be fitted in into specific locations within a foam filled case liner; and
 - 3.1.9.2 A name plate with the manufacturers part number, NATO Stock Number (NSN) as well as a calibration required date label shall be affixed to the exterior of the carrying case.
 - 3.1.9.3 Shall have a storage location fitted for the calibration cylinders.
- 3.1.10. Manuals and Instructions. (The following shall be provided with each kit).
 - 3.1.10.1. A bilingual operators manual shall be provided in both a hard copy (bound, with no loose sheets) and in electronic format on a CD/ DVD compatible with Microsoft Windows XP and Microsoft Office 2003. The Contractor shall be

responsible for Technical Accuracy Certificate (TAC) when signing the Certificate of TAC, certifying the accuracy of the translated text.

3.1.10.2. The operator's manual shall:

3.1.10.2.1. include safety warnings and precautions, kit contents, operating instructions, zeroing and calibration instructions, routine maintenance by the operator, trouble shooting, data logging and data downloading instructions, storage criteria and a list of consumable parts; and

3.1.10.2.2. reflect the DND alarm limits and prompts that the operator would see on the monitor display.

3.1.10.3. A bilingual laminated operation and fault finding chart.

3.1.10.4. A bilingual checklist with a complete description of the kit as received in the shipping containers.

3.1.10.5. A bilingual list of consumables and their estimated time of replacement.

3.2. Integrated Logistics Support (ILS)

3.2.1. ILS Information

3.2.1.1. The contractor shall provide the following:

3.2.1.1.1. a List of Recommended Spare Parts List (RSPL) to be maintained by the CF;

3.2.1.1.2. a List of Preventative and Corrective Maintenance activities with an estimated schedule, if available;

3.2.1.1.3. a Parts Manual of those components replaceable by the CF, in bilingual format (separate English and French versions are acceptable;

3.2.1.1.4. a list and/or drawings of the Multi-Gas Detector Kit and its major components for cataloguing and assigning NATO Stock Numbers (NSNs); and

3.2.1.1.5. a copy of the basic training material (handouts, lesson plans and exercises) paper and electronic (format to be compatible with MS Windows XP).

3.2.2. Operator Maintenance

3.2.2.1. The Multi-Gas Detector Kit shall be designed such that the operator can perform calibration, charging of the battery, changing sensors, and setting of alarm points and downloading logged data.

3.2.3. Training

3.2.3.1. Operator Training

- 3.2.3.1.1. The contractor shall provide up to 35 half day operator training sessions, for a class size of approximately 5 to 15 students, at Canadian Forces Bases (CFBs). The training shall be provided in Canada's official languages as required at each specific location. Note: The training sessions may occur prior to the kit delivery to each specific base and may occur in random order, with reference to geographical location. The bidder will provide training kits,

3.2.3.2. Initial Cadre Training (ICT)

- 3.2.3.2.1. The contractor shall provide ICT courses for the user communities instructional personnel that will be of sufficient depth and content to enable them to provide continuity training to the user community. The bidder shall provide training kits This training will be carried out at the following locations:

- 3.2.3.2.1.1. CFB Kingston; and
3.2.3.2.1.2. CFB Gagetown

- 3.2.3.2.2. The training courses (both operator and ITC) are to include the following:

- 3.2.3.2.2.1. Equipment description;
3.2.3.2.2.2. Set up and pack up with/without wireless laptop connection;
3.2.3.2.2.3. Sampling;
3.2.3.2.2.4. Analysis;
3.2.3.2.2.5. Saving, retrieving and sending reports;
3.2.3.2.2.6. Power connections, battery change; and
3.2.3.2.2.7. Calibration.

3.3. Quality Assurance

- 3.3.1. The contractor shall implement and maintain a Quality Assurance Plan (QAP) and Quality Management System.
- 3.3.2. The contractor shall retain Quality Control (QC) inspection and test records for a period of no less than 3 years after completion of the contract.
- 3.3.3. The contractor shall make available to the DND Quality Assurance Representative (QAR) within 2 business days of receiving such request, the QC Inspection and Test Records for the items delivered as part of the contract.

- 3.3.4. DND reserves the right to conduct testing to verify compliance with any or all of the requirements defined within this SOW.
- 3.3.5. DND reserves the right to conduct Quality Assurance (QA) inspections and audits to verify the contractor's quality assurance procedures, practices and methods during production and any other work associated to the contract.

3.4. Warranty

- 3.4.1. The contractor shall provide a minimum 3 year warranty on the monitor electronics and a minimum 2 year non-prorated warranty on the sensors. The contractor is to include a warranty statement listing what is covered by warranty, for how long and the warranty claim procedure. Warranty Turn Around Time (TAT) shall not exceed 90 calendar days.

4.0 Multi-Gas Detector Kit Desirable Characteristics

4.1 The following desirable characteristics are requested but are not mandatory.

4.2 Ergonomics

- 4.2.1 The monitor and sampling pump (including all batteries) should weigh less than 1.0 kg.

4.3 Monitor

- 4.3.1 The monitor should be capable of providing an intermittent audible tone to indicate that the monitor is operating correctly.
- 4.3.2 The monitor should be capable such that that the gas alarms can be set to latching or non-latching position.
- 4.3.3 The monitor should indicate the requirement for pending sensor replacement based on an indication of sensor reserve capacity during calibration or as a selectable diagnostic display.
- 4.3.4 The monitor alarms should have a reset capability to reset all sensor alarm points to the DND default values listed in the mandatory section IAW Para. 3.1.3.6.
- 4.3.5 The monitor should have an operator selectable menu of "K" factors for a minimum of 20 pre-programmed common flammable gases.
- 4.3.6 The monitor should have the capability of allowing the operator to install a "K" factor for a non pre-programmed flammable gas.

- 4.3.7 The contractor should provide equipment software updates for 10 years at no additional cost.
- 4.3.8 The monitor should have an audible “man down” alarm.
- 4.3.9 Sensor should have a three (3) year warranty.

4.4 Display

- 4.4.1 The monitor display should be capable of displaying the date as dd/mm/yy.
Example: 22 July 11
- 4.4.2 The monitor should have the ability to display logged data through the monitor LCD without the use of a computer.

4.5 Rechargeable Battery and Battery Charger

- 4.5.1 The rechargeable monitor battery should provide power to both the monitor and the sampling pump.
- 4.5.2 The rechargeable monitor battery should be designed such that it can be replaced by the operator without the use of tools.
- 4.5.3 The rechargeable monitor batteries should be capable of being charged by 12V vehicle power.
- 4.5.4 The kit should contain an adapter for 12V vehicle power charging.

4.6 Sampling Pump

- 4.6.1 The monitor and motorized sampling pump should be designed such that no tools are required to fit or remove the motorized sampling pump.
- 4.6.2 The sampling pump should be backed up by a manually operated bulb type sampling pump and hose that shall be provided in each kit.

Department of National Defence
DCSEM 5-3

Contract Deliverables Pricing List for the Confined Space Entry Kit

Requisition Number: W8486-136425

Date: 22 August 2012

Prepared by:
DCSEM 5-3
National Defence Headquarters
Major General George R. Pearkes Building
Ottawa, Ontario
K1A 0K2

ANNEX B-Contract Deliverables Pricing List

	TABLE 1 - Deliverables	DELIVERY		UNIT OF ISSUE	QTY	FIRM UNIT PRICE	TOTAL COST
CLIN		Instructions	Destination				
1	CSE AS PER SOW PARA 2.5.1	nlt 29 Mar 13	25 CFSD Montreal, Qc	Ea	170 up to 195		
1a		after 1 Apr 13 and nlt 31 Mar 14	25 CFSD Montreal, Qc	Ea	180		
2	Calibration Gas Cylinders AS PER SOW PARA 3.1.7	nlt 29 Mar 13	25 CFSD Montreal, Qc	Ea	170 up to 195		
2a		after 1 Apr 13 and nlt 31 Mar 14	25 CFSD Montreal, Qc	ea	180		
3	In-situ Operator Training courses as detailed in SOW 3.2.3.1	Serials to be completed NLT 31 Mar 14	To be conducted at CF BASES across Canada	Ea	up to 35		
4	Initial Cadre Training (ICT) courses as detailed in SOW 3.2.3.2	NLT than 29 Mar 13	- CFB Kingston ON; - CFB Gagetown NB	Ea	2		
5	Consumables throughout the delivery period and two full years following acceptance of last delivery of CLIN 1, ordered on as and when required basis from the " Consumable Items Catalogue," up to the maximum approved total cost.	Consumables are considered to be but not limited to.- Calibration gas cylinders - rechargeable batteries - sensors	25 CFSD Montreal, Qc				Up to a maximum of \$120,000.00
Sub-Total Table 1							
GST Table 1							
DELIVERABLES - TOTAL of Table 1 (GSTI)							

Department of National Defence

ANNEX B-Contract Deliverables Pricing List

[illegible]

ANNEX C

STATEMENT OF WORK

**MULTI-GAS DETECTOR KIT
FOR
CONFINED SPACE ENTRY
AND
HEAVY VOLATILE ORGANIC COMPOUNDS**

21 August 2012



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées.

1.0 Scope.

1.1. Purpose

The Department of National Defence has a requirement for a quantity of up to two hundred and thirty (230) Multi-Gas Detector Kits for Confined Space Entry with Heavy Volatile Organic Compounds (HVOC) capability and a further quantity of seventy (70) Automatic Docking Stations.

1.2. Background

1.2.1.1. The Department of National Defence (DND) has a requirement for a multi-gas detector that will continuously measure the presence of oxygen, explosive vapours and hazardous substances in confined spaces that are known to exceed the safe concentrations identified in the Canada Occupational Health and Safety Regulations under the Canada Labour Code. At present there are in excess of four-hundred and fifty (450+) confined space entry kits used by firefighters, linesmen, navy hull technicians, construction engineers, fuel and environment technicians and various other construction engineering trades. This required kit will be used by the CF Firefighters and Navy Hull Technicians.

1.2.1.2. The Multi-Gas Detector Kit and docking station are expected to have an in-service life expectancy of 10 years from date of delivery. *This shall not be interpreted as a requirement to provide any specific parts or any specific service support, but rather as a statement of DND's intent, which is to procure a reliable and supportable Confined Space entry kit.*

1.3. Terminology

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CFTO's	Canadian Forces Technical Orders
CO	Carbon Monoxide
CSA	Canadian Standards Association
DND	Department of National Defence
DVD	Digital Versatile Disc (formerly Digital Video Disk)
EMC	Electro-Magnetic Compatibility
EMI	Electro-Magnetic Interference
EU	European Union

H ₂ S	Hydrogen Sulphide
HVOC	Heavy Volatile Organic Compounds
ICT	Initial Cadre Training
IEC	International Electrotechnical Commission
IP	Ingress Protection (Rating)
K FACTORS	Correction factors
LCD	Liquid Crystal Display
LEL	Lower Exposure Level
MSDS	Material Safety Data Sheet
NSN	NATO Stock Number
O ₂	Oxygen
ppm	parts per million
PC	Personal Computer
PID	Photo-Ionizing Detection
QA	Quality Assurance
QC	Quality Control
QAP	Quality Assurance Plan
QAR	Quality Assurance Representative
RFI	Radio Frequency Interference
RFP	Request for Proposal
RSPL	Recommended Spare Parts List
SOW	Statement of Work
STEL	Short Term Exposure Limit
TAC	Technical Accuracy Certificate
TAT	Turn Around Time
TLVs	Threshold Limit Value
TWA	Time Waited Average
USB	Universal Serial Bus

2. 0. Applicable Documents.

2.1. Applicability

- 2.1.1. The following documents of the exact issue and their current revision form a part of the Statement of Work (SOW) to the extent specified herein. In the event of conflict between the documents referenced herein and the content of the SOW, the content of the SOW shall apply.

2.2. Canadian Forces Technical Orders (CFTOs)

- 2.2.1. D-01-100-207/SF-000 - Specification - Preparation of Parts Identification Lists
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- 2.2.3. C-01-100-100/AG-005 - Adaptation of commercial and Foreign Government Publications
- 2.2.4. D-02-006-008/SG-001 - Design Change Procedures

2.3. Standards

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- 2.3.2. CSA Standard C22.2 No. 157-92 Intrinsic Safety
- 2.3.3. CSA Standard C22.2 No.152 – M1984 Combustible Gas Detection
- 2.3.4. IEC or EU Directive 2004/108/CE Electromagnetic Compatibility
- 2.3.5. IP 65
- 2.3.6. Electro-Magnetic Compatibility (EMC) directive 89/336/ECC

2.4. Government Regulations

- 2.4.1. Canada Occupational Health and Safety Regulations (SOR/86-304); Section 11.4 – Confined Space Entry

2.5. Definitions

- 2.5.1. The Multi-Gas Detector Kit Confined Space Entry Kit and HVOCs (qty 230) shall include the monitor and all ancillary equipment identified below:
 - 2.5.1.1. sampling pump;
 - 2.5.1.2. rechargeable battery and battery charger;
 - 2.5.1.3. calibration kit;
 - 2.5.1.4. data down loading kit
 - 2.5.1.5. operator's training manual/CD (hard and soft copy);
 - 2.5.1.6. laminated fault finding chart;
 - 2.5.1.7. kit checklist;
 - 2.5.1.8. consumables list; and
 - 2.5.1.9. carrying case
- 2.5.2. A docking station (qty 70) shall also be provided that is compatible with the monitor for the purposes of calibration and transfer of data logged by the monitor. The docking station shall not be packed in the carrying case identified in Para. 2.5.1.9.

3.0 Requirements.

3.1. Multi-Gas Detector Kit Essential Characteristics.

All essential requirements are identified with “shall” statements. Any equipment not meeting these requirements will be found non compliant. All desirable requirements are

indicated with a “should” statement. These requirements are not mandatory, however they are requested and if available should be included with the equipment when bidders submit their response.

- 3.1.1. Monitor. The monitor shall be:
 - 3.1.1.1. hand held and capable of providing accurate and instant results with alarms and continuous displays;
 - 3.1.1.2. provided with in an adjustable, removable carrying harness enabling the monitor to be worn comfortably on the chest, shoulder and on the waist;
 - 3.1.1.3. capable of being turned on-off, mode changed, zeroed and calibrated and be easily manipulated while the operator is wearing protective gloves;
 - 3.1.1.4. a hand held portable instrument with 5-sensors, and shall have the capability of adding a 6th sensor;

NOTE:

Due to the lowering of the ACGIH recommended level of detection of H₂S it is our understanding that combined CO/ H₂S sensors are presently unable to detect H₂S at the legislated levels. For this reason we believe that a sixth sensor may have to be fitted. We rely on the bidders to recommend whether a sixth sensor is required to meet the requirements as outlined within the SOW.

- 3.1.1.5. a microprocessor based technology, with a push button control panel;
- 3.1.1.6. provided with audible, vibration, and visible alarms, as a minimum there shall be audible and visible alarms for faulty sensors, low battery, circuit failure and low pump flow;
- 3.1.1.7. capable of being powered by both a rechargeable and a non-rechargeable commercially available battery power source;
- 3.1.1.8. provided with a protective outer shell resistant to the elements;
- 3.1.1.9. designed such that a diagnostic check is performed as part of the start-up routine, and that as a minimum, shall verify correct operation of the audible and visual alarms, electronic circuits, the battery state of charge, sensor status and indicate which sensors are installed;
- 3.1.1.10. manufactured from materials that shall be sufficiently corrosion resistant to withstand the marine environment during the useful life of the kit and the hazardous atmosphere that the kit is exposed to during operation;

- 3.1.1.11. capable of operating over a temperature range of -10 degrees Celsius to +40 degrees Celsius;
- 3.1.1.12. capable of operating within a humidity range of 15% to ninety percent 90%, non-condensing within the temperature range specified in Para. 3.1.1.11;
- 3.1.1.13. water and dirt resistant In Accordance With (IAW) Ingress Protection (IP) 65;
- 3.1.1.14. Canadian Standards Association (CSA) certified as intrinsically safe IAW C22.2 No. 157-92 to Class I, Division 1, Groups A, B, C and D;
- 3.1.1.15. Electro-Magnetic Interference (EMI) and Radio Frequency Interference (RFI) certified IAW Electro-Magnetic Compatibility (EMC) directive 89/336/ECC; and
- 3.1.1.16. capable of data transfer with both a Personal Computer (PC) and the provided automatic docking station.
- 3.1.2. Display. The monitor display shall be:
 - 3.1.2.1. of the Liquid Crystal Display (LCD) type, with readout of a minimum of 6 sensor readings, peak gas readings, alarm conditions, fault conditions, date and time, low battery, elapsed time and operator prompt messages;
 - 3.1.2.2. designed with a minimum character height that can be easily viewed by the operator;
 - 3.1.2.3. designed with a display back light that will automatically turn on in low light conditions;
 - 3.1.2.4. capable of showing all 6 channel readouts simultaneously, with minimum display ranges as follows:
 - 3.1.2.4.1. 0 - 25% for O₂ (oxygen);
 - 3.1.2.4.2. 0 - 500 ppm for CO (carbon monoxide);
 - 3.1.2.4.3. 0 - 50 ppm for H₂S (hydrogen sulphide);
 - 3.1.2.4.4. 0 - 100% LEL for explosive gases; and
 - 3.1.2.4.5. 200 - 2000 ppm isobutylene for HVOCs
 - 3.1.2.5. designed with the capability of displaying both French and English language prompts.
- 3.1.3. Sensors. The monitor shall be:

3.1.3.1. provided with standard 5-sensor types (as listed below) as a minimum with the capability to add a 6th sensor. The standard 5-sensors shall be capable of detecting the following:

- 3.1.3.1.1. oxygen;
- 3.1.3.1.2. carbon monoxide;
- 3.1.3.1.3. hydrogen sulfide;
- 3.1.3.1.4. LEL of explosive gases (electro-chemical sensor); and
- 3.1.3.1.5. Threshold Limit Values (TLVs) for HVOCs (photo ionization sensor).

3.1.3.2. designed with the capability to detect the TLVs of HVOCs such as JP5/JP8 and diesel fuel with the resolution of:

- 3.1.3.2.1. Range: 0 to 200 ppm isobutylene equivalent (Sensitivity: 0.1 ppm isobutylene); and
- 3.1.3.2.2. Range: 200 to 2000 ppm isobutylene equivalent (Sensitivity: 1.0 ppm isobutylene).

3.1.3.3. capable of supporting optionally available sensors (but not to be included in the kits) that can measure and detect sulphur dioxide, ammonia, nitric oxide, chlorine, nitrogen dioxide, and hydrogen cyanide;

3.1.3.4. designed such that the sensors are easily replaceable in the field, requiring no more than a screwdriver to change the sensors that shall be easily accessible, without substantial disassembly of the monitor;

3.1.3.5. capable of accurately monitoring the target gases by simple infusion of the surrounding atmosphere, or by reaction to a remote sample which is pumped into the sensor housing;

3.1.3.6. provided with sensors designed for a minimum of 2 year shelf life;

3.1.3.7. capable to detect and initiate alarms for the standard gases preset to the DND alarm points and the current American Conference of Governmental Industrial Hygienists (ACGIH) TLVs as follows:

- | | | |
|------------|-------------------|----------------------|
| 3.1.3.7.1. | Oxygen: | 22.0% high & 20% low |
| 3.1.3.7.2. | Carbon monoxide: | Ceiling200 ppm |
| | | STEL50 ppm |
| | | TWA25 ppm |
| 3.1.3.7.3. | Hydrogen Sulfide: | Ceiling10 ppm |
| | | STEL5 ppm |
| | | TWA1 ppm |
| 3.1.3.7.4. | LEL | 10% |
| 3.1.3.7.5. | HVOC | STEL.....25 ppm |
| | | TWA.....10 ppm |

- 3.1.3.8. capable of having all sensor alarm limits set or reset by the operator.
- 3.1.4. Sampling Pump. The sampling pump shall be:
 - 3.1.4.1. easily fitted to the monitor with the use of common tools such as screwdrivers or wrenches;
 - 3.1.4.2. provided with a 6 m and a 10 m suction hose made from chemically resistant material including filter and probe;
 - 3.1.4.3. fitted with a liquid shut down system to exclude the ingestion of fluids;
 - 3.1.4.4. fitted with an audible and a visual low flow alarm for the mechanical sampling pump;
 - 3.1.4.5. CSA certified as intrinsically safe IAW C22.2 No. 157-92 to Class I, Division 1, Groups A, B, C and D;
 - 3.1.4.6. EMC/RFI certified IAW EMC directive 89/336/ECC; and
 - 3.1.4.7. turned "On" & "Off" automatically when the monitor is turned "On" & "Off".
- 3.1.5. Rechargeable Battery and Battery Charger
 - 3.1.5.1. The rechargeable battery capacity shall support a minimum 10 hour run-time without the sampling pump and a minimum of 8 hours with the pump and back light on.
 - 3.1.5.2. A 110 volt 60 hertz AC battery charger shall be provided capable of recharging and trickle charging of the monitor battery.
 - 3.1.5.3. Lights that indicate when the battery is charging, and when charging is complete, shall be mounted on the battery charger;
 - 3.1.5.4. The maximum recharging time shall be 6 hours.
 - 3.1.5.5. A battery holder assembly for commercially available non-rechargeable batteries, shall also be provided (if required).
 - 3.1.5.6. Alarm points, data and set-up variables shall be maintained in memory by a secondary battery with a minimum 5 year life.
- 3.1.6. Calibration Kit. The calibration kit shall:
 - 3.1.6.1. include a valve type flow regulator;

- 3.1.6.2. contain all the necessary hoses, fittings and attachments;
- 3.1.6.3. have all its components fitted into the main carrying case.
- 3.1.7. Calibration Cylinders. The calibration cylinders shall be:
 - 3.1.7.1. supplied separately and packaged accordingly from the Calibration Kit as this item will be a separately demandable consumable;
 - 3.1.7.2. metal cylinders containing appropriate compressed calibration gas for the standard 5-sensor configuration;
 - 3.1.7.3. filled with calibration gas which has a shelf life of 1 year minimum (from date of delivery);
 - 3.1.7.4. provided with bilingual labels with the expiry date clearly marked on the cylinder;
 - 3.1.7.5. provided with bilingual labels to identify the full name of the constituent gases, as well as the appropriate % LEL and ppm units;
 - 3.1.7.6. provided with bilingual Material Safety Data Sheet (MSDS) included with the gas cylinder; and
 - 3.1.7.7. of a sufficient volume of gas to provide for 40 standard calibrations.
- 3.1.8. Data Logging & Data Transfer
 - 3.1.8.1. The monitor shall have a minimum data logging capability of 40 hours at 1 minute intervals for all 6 channels.
 - 3.1.8.2. The logged data shall include: date, time, instantaneous readings and calibration dates.
 - 3.1.8.3. The data down loading kit shall contain all the necessary cables, adapters for downloading of stored monitoring data onto a printer and/or PC.
 - 3.1.8.4. The data down loading kit shall include any data downloading software required on a CD/DVD.
 - 3.1.8.5. The kit shall include bilingual data logging and data transfer instructions if they are not included in the main operators manual.

- 3.1.8.6. The monitor shall be provided with either a USB 2.0 (minimum) port or an interface cable to allow for a connection with a USB 2.0 device, as well as any required software.

3.1.9 Carrying Case

- 3.1.9.1 A water resistant hard shell carrying/transport case shall be provided with each kit. The monitor and all ancillary equipment identified in Para. 2.5.1 shall be fitted in into specific locations within a foam filled case liner; and

- 3.1.9.2 A name plate with the manufacturers part number, NATO Stock Number (NSN) as well as a calibration required date label shall be affixed to the exterior of the carrying case.

- 3.1.9.3 Shall include a storage location fitted for the calibration cylinders.

3.1.10 Manuals and Instructions. (The following shall be provided with each kit)

- 3.1.10.1 A bilingual language operators manual shall be provided in both a hard copy (bound, with no loose sheets) and in electronic format on a CD/ DVD compatible with Microsoft Windows XP and Microsoft Office 2003. The Contractor shall be responsible for Technical Accuracy Certificate (TAC) when signing the Certificate of TAC, certifying the accuracy of the translated text.

3.1.10.2 The operator's manual shall:

- 3.1.10.2.1 include safety warnings and precautions, kit contents, operating instructions, zeroing and calibration instructions, routine maintenance by the operator, trouble shooting, data logging and data downloading instructions, storage criteria and a list of consumable parts; and

- 3.1.10.2.2 reflect the DND alarm limits and prompts that the operator would see on the monitor display.

- 3.1.10.3 A bilingual laminated operation and fault finding chart.

- 3.1.10.4 A bilingual checklist with a complete description of the kit as received in the shipping containers; and

- 3.1.10.5 A bilingual list of consumables and their estimated time of replacement.

3.1.11 Automatic Docking Station

- 3.1.11.1 The Automatic Docking station shall be capable of the following:

- 3.1.11.1.1 performing automatic calibration of the monitor;

- 3.1.11.1.2 bump test; and
- 3.1.11.1.3 data transfer of logged data from the monitor.

3.2. Integrated Logistics Support (ILS)

3.2.1. ILS Information

3.2.1.1. The contractor shall provide the following:

- 3.2.1.1.1. a List of Recommended Spare Parts List (RSPL) to be maintained by the CF;
- 3.2.1.1.2. a List of Preventative and Corrective Maintenance activities with an estimated schedule, if available;
- 3.2.1.1.3. a Parts Manual of those components replaceable by the CF, in bilingual format (separate English and French versions are acceptable);
- 3.2.1.1.4. a list and/or drawings of the Multi-Gas Detector Kit and docking station and their major components for cataloguing and assigning NATO Stock Numbers (NSNs); and
- 3.2.1.1.5. a copy of the basic training material (handouts, lesson plans and exercises) paper and electronic (format to be compatible with MS Windows XP).

3.2.2. Operator Maintenance

- 3.2.2.1. The Multi-Gas Detector Kit shall be designed such that the operator can perform calibration, charging of the battery, changing sensors, and setting of alarm points and downloading logged data.

3.2.3. Training

3.2.3.1. Operator Training

- 3.2.3.1.1. The contractor shall provide up to 35 half day operator training sessions, for a class size of approximately 5 to 15 students, at Canadian Forces Bases (CFBs). The training shall be provided in Canadas' official languages, as required at each specific location..
Note: The training sessions may occur prior to the kit delivery to each specific base and may occur in random order, with reference to geographical location. The bidder shall provide training kits.

3.2.3.2. Initial Cadre Training (ICT)

- 3.2.3.2.1. The contractor shall provide bilingual ICT courses for the user communities instructional personnel that will be of sufficient depth and content to enable them to provide continuity training to the user

community. The bidder shall provide training kits. This training will be carried out at the following locations:

- 3.2.3.2.1.1. CFB Halifax;
- 3.2.3.2.1.2. CFB Borden; and
- 3.2.3.2.1.3. CFB Esquimalt.

3.2.3.2.2. The training courses (both operator and ICT) are to include the following:

- 3.2.3.2.2.1. Equipment description;
- 3.2.3.2.2.2. Set up and pack up with/without wireless laptop connection;
- 3.2.3.2.2.3. Sampling;
- 3.2.3.2.2.4. Analysis;
- 3.2.3.2.2.5. Saving, retrieving and sending reports;
- 3.2.3.2.2.6. Power connections, battery change; and
- 3.2.3.2.2.7. Calibration.

3.3. Quality Assurance

- 3.3.1. The contractor shall implement and maintain a Quality Assurance Plan (QAP) and Quality Management System.
- 3.3.2. The contractor shall retain Quality Control (QC) inspection and test records for a period of no less than 3 years after completion of the contract.
- 3.3.3. The contractor shall make available to the DND Quality Assurance Representative (QAR) within 2 business days of receiving such request, the QC Inspection and Test Records for the items delivered as part of the contract.

3.4. Warranty

- 3.4.1. The contractor shall provide a minimum 3 year warranty on the monitor electronics and a minimum 2 year non-prorated warranty on the sensors. The contractor is to include a warranty statement listing what is covered by warranty, for how long and the warranty claim procedure. Warranty Turn Around Time (TAT) shall not exceed 90 calendar days.

4.0 Multi-Gas Detector Kit Desirable Characteristics

4.1 The following characteristics may be provided.

4.2 Ergonomics

- 4.2.1 The monitor and sampling pump (including all batteries) should weigh less than 1.0 kg.

4.3 Monitor

- 4.3.1 The monitor should be capable of providing an intermittent audible tone to indicate that the monitor is operating correctly.
- 4.3.2 The monitor should be capable such that the gas alarms can be set to latching or non-latching position.
- 4.3.3 The monitor should indicate the requirement for pending sensor replacement based on an indication of sensor reserve capacity during calibration or as a selectable diagnostic display.
- 4.3.4 The monitor alarms should have a reset capability to reset all sensor alarm points to the DND default values listed in the mandatory section IAW Para. 3.1.3.7.
- 4.3.5 The monitor should have an operator selectable menu of "K" factors for a minimum of 20 pre-programmed common flammable gases.
- 4.3.6 The monitor should have the capability of allowing the operator to install a "K" factor for a non pre-programmed flammable gas.
- 4.3.7 The contractor should provide equipment software updates for 10 years at no additional cost.
- 4.3.8 The monitor should have an audible "man down" alarm.
- 4.3.9 The monitor sensors should have a three (3) year warranty.

4.4 Display

- 4.4.1 The monitor display should be capable of displaying the date as dd/mm/yy. Example: 22 Jul 11
- 4.4.2 The monitor should have the ability to display logged data through the monitor LCD without the use of a computer.

4.5 Rechargeable Battery and Battery Charger

- 4.5.1 The rechargeable monitor battery should provide power to both the monitor and the sampling pump.

- 4.5.2 The rechargeable monitor battery should be designed such that it can be replaced by the operator without the use of tools.
- 4.5.3 The rechargeable monitor battery should be capable of being charged by 12V vehicle power.
- 4.5.4 The kit should contain an adapter for 12V vehicle power charging.

4.6 Sampling Pump

- 4.6.1 The monitor and motorized sampling pump should be designed such that no tools are required to fit or remove the motorized sampling pump.
- 4.6.2 Backed up by a manually operated bulb type sampling pump and hose that shall be provided in each kit

Contract Deliverables Pricing List for the Confined Space Entry and HVOC Detection Kit

Requisition Number: W8486-136425

Date: 22 August 2012

Prepared by:
DCSEM 5-3
National Defence Headquarters
Major General George R. Pearkes Building
Ottawa, Ontario
K1A 0K2

Department of National Defence

ANNEX D-Contract Deliverables Pricing List

	TABLE 1 - Deliverables	DELIVERY		UNIT OF ISSUE	QTY	FIRM UNIT PRICE	TOTAL COST
CLIN		Instructions	Destination				
1 1a	CSE & HVOC DETECTION KIT AS PER SOW PARA 2.5.1	nlt 29 Mar 13 after 1 Apr 13 and nlt 31 Mar 14	25 CFSD Montreal, Qc 25 CFSD Montreal, Qc	Ea Ea	80 up to 108 122		
2 2a	Calibration Gas Cylinders AS PER SOW PARA 3.1.7	nlt 29 Mar 13 after 1 Apr 13 and nlt 31 Mar 14	25 CFSD Montreal, Qc 25 CFSD Montreal, Qc	Ea ea	80 up to 108 122		
3 3a	Docking Stations AS PER SOW PARA 3.1.11	nlt 29 Mar 13 after 1 Apr 13 and nlt 31 Mar 14	25 CFSD Montreal, Qc 25 CFSD Montreal, Qc	ea Ea	44 26		
4	In-situ Operator Training courses as detailed in SOW 3.2.3.1	Serials to be completed NLT 31 Mar 14	To be conducted at CF BASES across Canada	Ea	up to 35		
5	Initial Cadre Training (ICT) courses as detailed in SOW 3.2.3.2	NLT than 31 Mar 14	- CFB Borden, On; - CFB Esquimalt & Vancouver, BC; and - CFB Halifax, NS.	Ea	3		
6	Consumables throughout the delivery period and two full years following acceptance of last delivery of CLIN 1, ordered on as and when required basis from the " Consumable Items Catalogue," up to the maximum approved total cost.	Consumables are considered to be but not limited to.- Calibration gas cylinders - rechargeable batteries - sensors	25 CFSD Montreal, Qc				Up to a maximum of \$120,000.00
Sub-Total Table 1							
GST Table 1							
DELIVERABLES - TOTAL of Table 1 (GSTI)							\$ -

ANNEX D-Contract Deliverables Pricing List


[illegible]

ANNEX E

**BID PREPARATION INSTRUCTIONS
AND
EVALUATION PLAN**

**MULTI-GAS DETECTOR KIT
FOR
CONFINED SPACE ENTRY**

21 August 2012

<p>NOTICE This documentation has been reviewed by the technical authority and does not contain controlled goods.</p>	
<p>AVIS Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées.</p>	

- 1.0 **General.**
 - 1.1 This document defines the criteria and the scoring system that will be used to determine the winning bid for the procurement of the Multi-Gas Detector Kit for Confined Space Entry. It contains a description of the evaluation process and defines the Bidder information requirements.
 - 2.0 **Capability Evaluation.**
 - 2.1 The bidder shall provide in their response to the RFP, a letter of authorization from the Original Equipment Manufacturer (OEM) that they are authorized to sell, service, stock parts and repair the offered equipment anywhere from coast to coast in Canada
 - 3.0 **Basis of Selection.**
 - 3.1 Essential Requirements
 - 3.1.1 Submittal of all essential documentation and compliance with each and all mandatory evaluation criteria is essential for the bid to be compliant. The mandatory evaluation criteria are indicated by the use of the word "shall" in the specification statement.
 - 3.1.2 Proposals shall contain sufficient information to demonstrate compliance with each essential evaluation criteria, as requested in this document and its appendices. Failure to demonstrate compliance with any mandatory evaluation criterion will render the proposal non-compliant and it will be given no further consideration.
 - 3.1.3 The information provided in the bidder's proposal, and only this information, will be analyzed by the Government of Canada evaluators for compliance with each of essential evaluation criterion.
 - 3.1.4 Essential evaluation criteria are evaluated as either a pass or fail and are not scored
 - 3.2 Desirable Requirements
 - 3.2.1 The bidder shall score a minimum 200 points out of a possible maximum 400 points in the rated evaluation criteria to be deemed compliant with their response to the RFP. Failure to achieve at least 200 points in the desirable evaluation criteria will result in the bidder's response to the RFP being deemed non-compliant.
 - 3.2.2 Desirable criteria represent requirements that add value to the contract and are used during the proposal evaluation to determine the proposals that

provide the best value to the Government of Canada. The desirable evaluation criteria are indicated by the use of the word "should" in the specification statement.

3.2.3. Proposals should contain sufficient information to demonstrate compliance with each rated evaluation criteria, as requested in this document and the relevant appendices. Failure to provide sufficient information as substantiation of a level of performance for a rated criterion will result in that particular rated evaluation criterion receiving no points.

3.3 Technical Evaluation Process

3.3.1. The information provided in the proposal, and only this information will be evaluated and the result of each rated evaluation criterion will be determined by the bid evaluation team led by the Technical Authority.

3.3.2. The proposal's total point score will be determined by calculating the total sum of the points achieved in Table 2.

3.3.3. The bidder shall submit 3 electronic copies of the technical proposal in formats compatible with the office software currently utilized by DND, as listed below:

3.4 Financial Evaluation Process

3.4.1. Best cost per point.

1. To be declared responsive, a bid must:

- a. comply with all the requirements of the bid solicitation;
- b. meet all Essential technical evaluation criteria; and
- c. obtain the required minimum points for the technical evaluation criteria which are subject to point rating.

2. Bids not meeting (a) or (b) or (c) will be declared non-responsive. Neither the responsive bid that receives the highest number of points nor the one that proposed the lowest price will necessarily be accepted. The responsive bid with the lowest evaluated price per point will be recommended for award of a contract.

1.0 Essential Requirements.

1.1 Essential requirements for the Multi-Gas Detector Kit for Confined Space Entry are listed in Table 1.

1.2 Where indicated, the bidder shall provide the information required for each essential requirement in accordance with the method identified in the "Evaluation Compliance Method" column as well as any additional information and/or specific instructions as indicated.

1.3 The following methods used in the "Evaluation Compliance Method" column define the minimum information required in the bidder responses for each essential requirement offered by the bidder:

1.3.1. **Test Report:** For each essential requirement where "Test Report" is identified in the "Evaluation Compliance Method" column, bidders shall provide a complete and detailed Test Report, including test procedures, data and results, for tests conducted on the equipment offered, to verify that it fully complies with the requirement. The Test Report shall have originated from formal tests conducted, as part of qualification tests or acceptance tests, and for the same equipment as that offered.

1.3.2. **Specification Data:** For each essential requirement where "Specification Data" is identified in the "Evaluation Compliance Method" column, provide the Product Specification data to confirm that the equipment offered fully complies with the requirement; and

1.3.3. **Compliance Statement:** For each essential requirement where "Compliance Statement" is identified in the "Evaluation Compliance Method" column, provide a compliance statement in the "Bidder's Response" column, complete with supporting information, to clearly demonstrate that the equipment offered fully complies with the requirement.

1.4 For each essential requirement, the bidder shall provide their response in the "Bidder's Response" column in Table 1, either by including the specific reference to indicate where in their response the information is found or including the complete response directly in that column.

2.0 **Desirable Requirements**

- 2.1 **Desirable** requirements for the Multi-Gas Detector Kit for Confined Space Entry are listed in Table 2. Bidders shall indicate "Yes" or "No" to confirm if the desirable requirement is offered, or not-offered under the "Offered" column in Table 2.
- 2.2 Where the bidder has responded "Yes" to a particular desirable requirement, the bidder shall provide the information required in accordance with the method identified in the "Evaluation Compliance Method" column as well as any additional information and/or specific instructions as indicated.
- 2.3 For each desirable requirement, the bidder shall provide their response in the "Bidder's Response" column in Table 2, either by including the specific reference to indicate where in their response the information is found or including the complete response directly in that column.

TABLE 1 –ESSENTIAL REQUIREMENTS FOR THE MULTI-GAS DETECTOR KIT FOR CONFINED SPACE ENTRY

Requirement ID	Essential Requirements	Compliance Matrix		Evaluation Compliance Method	SOW Ref	Reference in Bidder's Respons
		Comply	Not Comply			
1.	The bidder shall provide in their response to the RFP, a letter of authorization from the Original Equipment Manufacturer (OEM) that they are authorized to sell, service, stock parts and repair the offered equipment anywhere from coast to coast in Canada.			Letter shall be provided on OEM letterhead.	2.1 Bid Evaluation Instructions	
2.	The monitor shall be hand held and capable of providing accurate and instant results with alarms and continuous displays.			Compliance Statement	3.1.1.1.	
3.	The monitor shall be provided with an adjustable, removable carrying harness enabling the monitor to be worn comfortably on the chest, shoulder and on the waist.			Specification Data	3.1.1.2	
4.	The monitor shall capable of being turned on-off, mode changed, zeroed and calibrated and be easily manipulated while the operator is wearing protective gloves.			Compliance Statement	3.1.1.3.	
5.	The monitor shall be a hand held portable instrument with 4-sensors, and shall have the capability of adding a 5 th sensor.			Specification Data	3.1.1.4.	
6.	The monitor shall be a microprocessor based technology, with a push button control panel.			Specification Data	3.1.1.5	
7.	The monitor shall be provided with audible, vibration, and visible alarms, as a minimum there shall be audible and visible alarms for faulty sensors, low battery, circuit failure and low pump flow.			Specification Data	3.1.1.6.	
8.	The monitor shall be capable of being powered by both a rechargeable and a non-rechargeable commercially available battery power source.			Specification Data	3.1.1.7.	
9.	The monitor shall be provided with a protective outer shell resistant to the elements.			Compliance Statement & Specification Data	3.1.1.8.	
10.	The monitor shall be designed such that a diagnostic check is performed as part of the start-up routine that, as a minimum shall verify correct operation of the audible and visual alarms, electronic circuits, the battery state of charge, sensor status and indicate what sensors are installed.			Specification Data	3.1.1.9.	

Requirement ID	Essential Requirements	Compliance Matrix		Evaluation Compliance Method	SOW Ref	Reference in Bidder's Response
		Comply	Not Comply			
11.	The monitor shall be manufactured from materials that shall be sufficiently corrosion resistant to withstand the marine environment during the useful life of the kit and the hazardous atmosphere that the kit is exposed to during operation.			Compliance Statement	3.1.1.10.	
12.	The monitor shall be capable of operating over a temperature range of -10 degrees Celsius to +40 degrees Celsius.			Specification Data	3.1.1.11.	
13.	The monitor shall be capable of operating within a humidity range of 15% to ninety percent 90%, non-condensing within the temperature range specified in Para. 3.1.1.11.			Specification Data	3.1.1.12.	
14.	The monitor shall be water and dirt resistant In Accordance With (IAW) Ingress Protection (IP) 65.			Specification Data	3.1.1.13.	
15.	The monitor shall be Canadian Standards Association (CSA) certified as intrinsically safe IAW C22.2 No. 157-92 to Class I, Division 1, Groups A, B, C and D.			Specification Data	3.1.1.14.	
16.	The monitor shall be Electro-Magnetic Interference (EMI) and Radio Frequency Interference (RFI) certified IAW Electro-Magnetic Compatibility (EMC) directive 89/336/ECC.			Specification Data	3.1.1.15.	
17.	The monitor shall be capable of data transfer with a Personal Computer (PC).			Compliance Statement	3.1.1.16.	
18.	The monitor display shall be of the Liquid Crystal Display (LCD) type, with readout of a minimum of 5-sensor readings, peak gas readings, alarm conditions, fault conditions, date and time, low battery, elapsed time and operator prompt messages.			Specification Data	3.1.2.1	
19.	Intentionally left blank					
20.	The monitor display shall be designed with a display back light that will automatically turn on in low light conditions			Specification Data	3.1.2.3.	
21.	The monitor display shall be capable of showing all 5 channel readouts simultaneously, with minimum display ranges as follows:			N/A.	3.1.2.4.	
22.	i. 0 - 25% for O ₂ (oxygen);			Specification Data	3.1.2.4.1.	

Requirement ID	Essential Requirements	Compliance Matrix		Evaluation Compliance Method	SOW Ref	Reference in Bidder's Response
		Comply	Not Comply			
23.	ii. 0 - 500 ppm for CO (carbon monoxide);			Specification Data	3.1.2.4.2.	
24.	iii. 0 - 50 ppm for H ₂ S (hydrogen sulphide); and			Specification Data	3.1.2.4.3.	
25.	iv. 0 - 100% LEL of explosive gases.			Specification Data	3.1.2.4.4.	
26.	The monitor display shall be designed with the capability of displaying both French and English language prompts.			Specification Data	3.1.2.5.	
27.	The monitor shall be provided with standard 4-sensor types (listed below) as a minimum with the capability to add a 5 th sensor. The standard 4-sensors shall be capable of detecting the following:		-	N/A.	3.1.3.1.	
28.	i. oxygen;			Specification Data	3.1.3.1.1.	
29.	ii. carbon monoxide;			Specification Data	3.1.3.1.2.	
30.	iii. hydrogen sulphide; and			Specification Data	3.1.3.1.3.	
31.	iv. LEL of explosive gases (catalytic bead sensor).			Specification Data	3.1.3.1.4.	
32.	The monitor shall be capable of supporting optionally available sensors (but not to be included in the kits) that can measure and detect sulphur dioxide, ammonia, nitric oxide, chlorine, nitrogen dioxide, and hydrogen cyanide.			Specification Data	3.1.3.2.	
33.	The monitor shall be designed such that the sensors are easily replaceable in the field, requiring no more than a screwdriver to change the sensors that shall be easily accessible, without substantial disassembly of the monitor.			Compliance Statement	3.1.3.3.	
34.	The monitor shall be capable of accurately monitoring the target gases by simple infusion of the surrounding atmosphere, or by reaction to a remote sample which is pumped into the sensor housing.			Test Report	3.1.3.4.	
35.	The monitor shall be provided with sensors designed for a minimum of 2 year shelf life.			Compliance Statement	3.1.3.5.	
36.	The monitor shall be capable to detect and initiate alarms for the standard gases preset to the DND alarm points and the current American Conference of Governmental Industrial Hygienists (ACGIH) TLVs as follows:			Specification Data	3.1.3.6.	
37.	i. Oxygen: 22.0% high & 20% low			Specification Data	3.1.3.6.1.	
38.	ii. Carbon monoxide: Ceiling200 ppm STEL50 ppm TWA25 ppm			Specification Data	3.1.3.6.2.	

Requirement ID	Essential Requirements	Compliance Matrix		Evaluation Compliance Method	SOW Ref	Reference in Bidder's Response
		Comply	Not Comply			
39.	iii. Hydrogen Sulphide: Ceiling10 ppm STEL5 ppm TWA1 ppm			Specification Data	3.1.3.6.3.	
40.	iv. LEL: 10%			Specification Data	3.1.3.6.4.	
41.	The monitor shall be capable of having all sensor alarm limits set or reset by the operator.			Compliance Statement	3.1.3.7.	
42.	The sampling pump shall be easily fitted to the monitor with the use of common tools such as screwdrivers or wrenches.			Compliance Statement	3.1.4.1.	
43.	The sampling pump shall be provided with a 6 m and a 10 m suction hose made from chemically resistant material including filter and probe.			Compliance Statement & Equipment checklist	3.1.4.2.	
44.	The sampling pump shall be fitted with a liquid shut down system to exclude the ingestion of fluids.			Specification Data	3.1.4.3.	
45.	The sampling pump shall be fitted with an audible and a visual low flow alarm for the mechanical sampling pump.			Specification Data	3.1.4.4.	
46.	The sampling pump shall be CSA certified as intrinsically safe IAW C22.2 No. 157-92 to Class I, Division 1, Groups A, B, C and D.			Specification Data	3.1.4.5.	
47.	The Sampling Pump shall be EMC/RFI certified IAW EMC directive 89/336/ECC.			Specification Data	3.1.4.6.	
48.	The sampling pump shall be capable of being turned "On" & "Off" automatically when the monitor is turned "On" & "Off".			Compliance Statement	3.1.4.7.	
49.	The rechargeable battery capacity shall support a minimum 10 hour run-time without the sampling pump and a minimum of 8 hours with the pump and back light on.			Specification Data	3.1.5.1.	
50.	A 110 volt 60 hertz AC battery charger shall be provided capable of recharging and trickle charging of the monitor battery.			Compliance Statement & Equipment Checklist	3.1.5.2.	
51.	Lights that indicate when the battery is charging, and when charging is complete, shall be mounted on the battery charger.			Specification Data	3.1.5.3.	
52.	The maximum recharging time shall be 6 hours.			Specification Data	3.1.5.4.	
53.	A battery holder assembly for commercially available non-rechargeable batteries shall also be provided (if required).			Compliance Statement & Equipment Checklist	3.1.5.5.	

Requirement ID	Essential Requirements	Compliance Matrix		Evaluation Compliance Method	SOW Ref	Reference in Bidder's Response
		Comply	Not Comply			
54.	Alarm points, data and set-up variables shall be maintained in memory by a secondary battery with a minimum 5 year life.			Specification Data	3.1.5.6.	
55.	The calibration kit shall include a valve type flow regulator.					
56.	The calibration kit shall contain all the necessary hoses, fittings and attachments.			Compliance Statement & Equipment Checklist	3.1.6.1.	
57.	Intentionally left blank			Compliance Statement & Equipment Checklist	3.1.6.2.	
58.	The calibration kit shall have all its components fitted into the main carrying case.			Compliance Statement	3.1.6.3.	
59.	The calibration cylinders shall be supplied separately and packaged accordingly from the Calibration Kit.			Compliance Statement	3.1.7.1.	
60.	The calibration cylinders shall be metal cylinders containing appropriate compressed calibration gas for the standard 4-sensor configuration.			Compliance Statement	3.1.7.2.	
61.	The calibration cylinders shall be filled with calibration gas which has a shelf life of 1 year minimum (from date of delivery).			Compliance Statement	3.1.7.3.	
62.	The calibration cylinders shall be bilingually labelled with the expiry date clearly marked on the cylinder.			Compliance Statement	3.1.7.4.	
63.	The calibration cylinders shall be bilingually labelled to identify the full name of the constituent gases, as well as the appropriate % LEL and ppm units.			Compliance Statement	3.1.7.5.	
64.	The calibration cylinders shall be provided with a bilingual Material Safety Data Sheet (MSDS) included with the gas cylinder.			Compliance Statement	3.1.7.6.	
65.	The calibration cylinders shall be of a sufficient volume of gas to provide for 40 standard calibrations.			Compliance Statement	3.1.7.7.	
66.	The monitor shall have a minimum data logging capability of 40 hours at 1 minute intervals for all 5 channels.			Specification Data	3.1.8.1.	
67.	The logged data shall include: date, time, instantaneous readings and calibration dates.			Specification Data	3.1.8.2.	
68.	The kit shall contain all the necessary cables, adapters for downloading of stored monitoring data onto a printer and/or PC.			Compliance Statement & Equipment Checklist	3.1.8.3.	

Requirement ID	Essential Requirements	Compliance Matrix		Evaluation Compliance Method	SOW Ref	Reference in Bidder's Response
		Comply	Not Comply			
69.	The kit shall include any data downloading software required on a CD/DVD.			Compliance Statement & Equipment Checklist	3.1.8.4.	
70.	The kit shall include bilingual data logging and data transfer instructions if they are not included in the main operators' manual.			Compliance Statement & Equipment Checklist	3.1.8.5.	
71.	The monitor shall be provided with either a USB 2.0 (minimum) port or an interface cable to allow for a connection with a USB 2.0 device, as well as any required software.			Specification Data	3.1.8.6.	
72.	A water resistant hard shell carrying/transport case shall be provided with each kit. The monitor and all ancillary equipment identified in Para. 2.5.1 shall be fitted in into specific locations within a foam filled case liner.			Compliance Statement & Equipment Checklist	3.1.9.1.	
73.	A name plate with the manufacturers part number, NATO Stock Number (NSN) as well as a calibration required date label shall be affixed to the exterior of the carrying case.			Compliance Statement & Equipment Checklist	3.1.9.2.	
74.	Shall have a storage location fitted for the calibration cylinders.			Compliance Statement	3.1.9.3	
75.	A bilingual operators manual shall be provided in both a hard copy (bound, with no loose sheets) and in electronic format on a CD/DVD compatible with Microsoft Windows XP and Microsoft Office 2003. The Contractor shall be responsible for Technical Accuracy Certificate (TAC) when signing the Certificate of TAC, certifying the accuracy of the translated text.			Compliance Statement & Equipment Checklist	3.1.10.1.	
76.	The operator's manual shall include safety warnings and precautions, kit contents, operating instructions, zeroing and calibration instructions, routine maintenance by the operator, trouble shooting, data logging and data downloading instructions, storage criteria and a list of consumable parts.			Compliance Statement	3.1.10.2.1.	
77.	The operator's manual shall reflect the DND alarm limits and prompts that the operator would see on the monitor display.			Compliance Statement	3.1.10.2.2.	
78.	A bilingual laminated operation and fault finding chart.			Compliance Statement & Equipment Checklist	3.1.10.3.	
79.	A bilingual checklist with a complete description of the kit as received in the shipping containers.			Compliance Statement & physical sample of nameplate	3.1.10.4.	

Requirement ID	Essential Requirements	Compliance Matrix		Evaluation Compliance Method	SOW Ref	Reference in Bidder's Response
		Comply	Not Comply			
80.	A bilingual list of consumables and their estimated time of replacement.			Compliance Statement & Equipment Checklist	3.1.10.5.	
81.	The contractor shall provide a List of Recommended Spare Parts List (RSPL) to be maintained by the CF.			Compliance Statement	3.2.1.1.1.	
82.	The contractor shall provide a List of Preventative and Corrective Maintenance activities with an estimated schedule, if available.			Compliance Statement	3.2.1.1.2.	
83.	The contractor shall provide a Parts Manual of those components replaceable by the CF, in bilingual format (separate English and French versions are acceptable).			Compliance Statement	3.2.1.1.3.	
84.	The contractor shall provide a list and/or drawings of the Multi-Gas Detector Kit and its major components for cataloguing and assigning NATO Stock Numbers (NSNs).			Compliance Statement	3.2.1.1.4.	
85.	The contractor shall provide a copy of the basic training material (handouts, lesson plans and exercises) paper and electronic (format to be compatible with MS Windows XP).			Compliance Statement	3.2.1.1.5.	
86.	The Multi-Gas Detector Kit shall be designed such that the operator can perform calibration, charging of the battery, changing sensors, and setting of alarm points and downloading logged data.			Compliance Statement	3.2.2.1	
87.	The contractor shall provide up to 35 half day operator training sessions, for a class size of approximately 5 to 15 students, at Canadian Forces Bases (CFBs). The training shall be provided in Canada's official languages as required at each specific location. Note: The training sessions may occur prior to the kit delivery to each specific base and may occur in random order, with reference to geographical location.. The bidder shall provide training kits			Compliance Statement	3.2.3.1.1.	
88.	The contractor shall provide ICT courses for the user communities instructional personnel that will be of sufficient depth and content to enable them to provide continuity training to the user community. The bidder shall provide training kits This training will be carried out at the following locations:			Compliance Statement	3.2.3.2.1.	
89.	ii. CFB Kingston; and				3.2.3.2.1.1.	

Requirement ID	Essential Requirements	Compliance Matrix		Evaluation Compliance Method	SOW Ref	Reference in Bidder's Response
		Comply	Not Comply			
90.	iii. CFB Gagetown;				3.2.3.2.1.2.	
91	The training (both operator and ICT) courses are to include the following:			Compliance Statement.	3.2.3.2.2.	
92.	i. Equipment description;				3.2.3.2.2.1.	
93.	ii. Set up and pack up with/without wireless laptop connection;				3.2.3.2.2.2.	
94.	iii. Sampling;				3.2.3.2.2.3.	
95.	iv. Analysis;			Compliance Statement & Lesson Plans	3.2.3.2.2.4.	
96.	v. Saving, retrieving and sending reports;				3.2.3.2.2.5.	
97.	vi. Power connections, battery change; and				3.2.3.2.2.6.	
98.	vii. Calibration.				3.2.3.2.2.7.	
99.	The contractor shall provide a minimum 3 year warranty on the monitor electronics and a minimum 2 year non-prorated warranty on the sensors. The contractor is to include a warranty statement listing what is covered by warranty, for how long and the warranty claim procedure. Warranty Turn Around Time (TAT) shall not exceed 90 calendar days.			Compliance Statement	3.4.1	

TABLE 2 – DESIRABLE REQUIREMENTS FOR THE MULTI-GAS DETECTOR KIT FOR CONFINED SPACE ENTRY

Requirement ID	Desirable Requirements	Offered	Evaluation Score	Evaluation Compliance Methods	SOW Ref	Reference in Bidder's Response
			(Points)			
1.	The monitor and sampling pump (including all batteries) should weigh less than 1.0 kg.		50	Specification Data	4.2.1.	
2.	The monitor should be capable of providing an intermittent audible tone to indicate that the monitor is operating correctly.		20	Specification Data	4.3.1	
3.	The monitor should be capable such that that the gas alarms can be set to latching or non-latching position.		10	Specification Data	4.3.2	
4.	The monitor should indicate the requirement for pending sensor replacement based on an indication of sensor reserve capacity during calibration or as a selectable diagnostic display.		50	Specification Data	4.3.3	
5.	The monitor alarms should have a reset capability to reset all sensor alarm points to the DND default values listed in the mandatory section IAW Para. 3.1.3.6.		20	Specification Data	4.3.4.	
6.	The monitor should have an operator selectable menu of “K” factors for a minimum of 20 pre-programmed common flammable gases		20	Specification Data	4.3.5.	
7.	The monitor should have the capability of allowing the operator to install a “K” factor for a non pre-programmed flammable gas.		20	Specification Data	4.3.6.	
8.	The contractor should provide equipment software updates for 10 years at no additional cost.		20	Compliance Statement	4.3.7.	
9.	The monitor should have an audible “man down” alarm.		25	Compliance Statement	4.3.8.	
10.	The monitor sensors should have a three (3) year warranty.		25	Compliance Statement	4.3.9.	
11.	The monitor display should be capable of displaying the date as dd/mm/yy. Example: 22 Jul 11.		20	Specification Data	4.4.1.	
12.	The monitor should have the ability to display logged data through the monitor LCD without the use of a computer.		20	Specification Data	4.4.2.	
13.	The rechargeable monitor battery should provide power to both the monitor and the sampling pump.		30	Specification Data	4.5.1.	
14.	The rechargeable monitor battery should be designed such that it can be replaced by the operator without the use of tools.		20	Compliance Statement	4.5.2	


Requirement ID	Desirable Requirements	Offered	Evaluation Score	Evaluation Compliance Methods	SOW Ref	Reference in Bidder's Response
			(Points)			
15.	The rechargeable monitor battery should be capable of being charged by 12V vehicle power.		10	Compliance Statement	4.5.3.	
16.	The kit should contain an adapter for 12V vehicle power charging.		15	Compliance Statement & Equipment Checklist	4.5.4.	
17.	The monitor and motorized sampling pump should be designed such that no tools are required to fit or remove the motorized sampling pump.		15	Compliance Statement	4.6.1.	
18.	The sampling pump should be backed up by a manually operated bulb type pump and hose that shall be provided in each kit.		10	Compliance Statement	4.6.2.	
	TOTAL AVAILABLE POINTS		400			

ANNEX F

**BID PREPARATION INSTRUCTIONS
AND
EVALUATION PLAN**

**MULTI-GAS DETECTOR KIT
FOR
CONTAINED SPACE ENTRY
AND
HEAVY VOLATILE ORGANIC COMPOUNDS**

21 August 2012

<p>NOTICE This documentation has been reviewed by the technical authority and does not contain controlled goods.</p>	
<p>AVIS Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées.</p>	

- 1.0 **General.**
- 1.1 This document defines the criteria and the scoring system that will be used to determine the winning bid for the procurement of the Multi-Gas Detector Kit for Confined Space Entry and Heavy Volatile Organic Compounds. It contains a description of the evaluation process and defines the Bidder information requirements.
- 2.0 **Capability Evaluation.**
- 2.1 The bidder shall provide in their response to the RFP, a letter of authorization from the Original Equipment Manufacturer (OEM) that they are authorized to sell, service, stock parts and repair the offered equipment anywhere from coast to coast in Canada.
- 3.0 **Basis of Selection.**

3.1 Essential Requirements

- 3.1.1 Submittal of all essential documentation and compliance with each and all essential evaluation criteria is essential for the bid to be compliant. The essential evaluation criteria are indicated by the use of the word "shall" in the specification statement.

- 3.1.2 Proposals shall contain sufficient information to demonstrate compliance with each essential evaluation criteria, as requested in this document and its appendices. Failure to demonstrate compliance with any Essential evaluation criterion will render the proposal non-compliant and it will be given no further consideration.

- 3.1.3 The information provided in the bidder's proposal, and only this information, will be analyzed by the Government of Canada evaluators for compliance with each of essential evaluation criterion.

- 3.1.4 Essential evaluation criteria are evaluated as either a pass or fail and are not scored.

3.2 Desirable Requirements

- 3.2.1 The bidder shall score a minimum 200 points out of a possible maximum 400 points in the desirable evaluation criteria to be deemed compliant with their response to the RFP. Failure to achieve at least 200 points in the desirable evaluation criteria, will result in the bidder's response to the RFP being deemed non-compliant.

- 3.2.2 Desirable criteria represent requirements that add value to the contract and are used during the proposal evaluation to determine the proposals that provide

the best value to the Government of Canada. The desirable evaluation criteria are indicated by the use of the word "should" in the specification statement.

3.2.3. Proposals should contain sufficient information to demonstrate compliance with each desirable evaluation criteria, as requested in this document and the relevant appendices. Failure to provide sufficient information as substantiation of a level of performance for a desirable criterion will result in that particular desirable evaluation criterion receiving no points.

3.3 Technical Evaluation Process

- 3.3.1. The information provided in the proposal, and only this information will be evaluated and the result of each desirable evaluation criterion will be determined by the bid evaluation team led by the Technical Authority.
- 3.3.2. The proposal's total point score will be determined by calculating the total sum of the points achieved in Table 2.

3.4 Financial Evaluation Process

- 3.4.1. Best cost per point
1. To be declared responsive, a bid must:
- a. comply with all the requirements of the bid solicitation;
 - b. meet all Essential technical evaluation criteria; and
 - c. obtain the required minimum points for the technical evaluation criteria which are subject to point rating.
2. Bids not meeting (a) or (b) or (c) will be declared non-responsive. Neither the responsive bid that receives the highest number of points nor the one that proposed the lowest price will necessarily be accepted. The responsive bid with the lowest evaluated price per point will be recommended for award of a contract.

1.0 **Essential Requirements.**

1.1 Essential requirements for the Multi-Gas Detector Kit for Confined Space Entry and HVOCs are listed in Table 1.

1.2 Where indicated, the bidder shall provide the information required for each Essential requirement in accordance with the method identified in the "Evaluation Compliance Method" column as well as any additional information and/or specific instructions as indicated.

1.3 The following methods used in the "Evaluation Compliance Method" column define the minimum information required in the bidder responses for each Essential requirement offered by the bidder:

1.3.1 **Test Report:** For each Essential requirement where "Test Report" is identified in the "Evaluation Compliance Method" column, bidders shall provide a complete and detailed Test Report, including test procedures, data and results, for tests conducted on the equipment offered, to verify that it fully complies with the requirement. The Test Report shall have originated from formal tests conducted, as part of qualification tests or acceptance tests, and for the same equipment as that offered;

1.3.2 **Specification Data:** For each Essential requirement where "Specification Data" is identified in the "Evaluation Compliance Method" column, provide the Product Specification data to confirm that the equipment offered fully complies with the requirement; and

1.3.3. **Compliance Statement:** For each Essential requirement where "Compliance Statement" is identified in the "Evaluation Compliance Method" column, provide a compliance statement in the "Bidder's Response" column, complete with supporting information, to clearly demonstrate that the equipment offered fully complies with the requirement.

1.4 For each Essential requirement, the bidder shall provide their response in the "Bidder's Response" column in Table 1, either by including the specific reference to indicate where in their response the information is found or including the complete response directly in that column.

2.0 **Desirable Requirements**

- 2.1 Desirable requirements for the Multi-Gas Detector Kit for Confined Space Entry and HVOCs are listed in Table 2. Bidders shall indicate "Yes" or "No" to confirm if the desirable requirement is offered, or not-offered under the "Offered" column in Table 2.
- 2.2 Where the bidder has responded "Yes" to a particular desirable requirement, the bidder shall provide the information required in accordance with the method identified in the "Evaluation Compliance Method" column as well as any additional information and/or specific instructions as indicated.
- 2.3 For each desirable requirement, the bidder shall provide their response in the "Bidder's Response" column in Table 2, either by including the specific reference to indicate where in their response the information is found or including the complete response directly in that column.

TABLE 1 – ESSENTIAL REQUIREMENTS FOR THE MULTI-GAS DETECTOR KIT FOR CONFINED SPACE ENTRY AND HEAVY ORGANIC VOLATILE COMPOUNDS

Requirement ID	Essential Requirements	Compliance Matrix		Evaluation Compliance Method	SOW Ref	Reference in Bidder's Response
		Comply	Not Comply			
1.	The bidder shall provide in their response to the RFP, a letter of authorization from the Original Equipment Manufacturer (OEM) that they are authorized to sell, service, stock parts and repair the offered equipment anywhere from coast to coast in Canada			Letter shall be provided on OEM letterhead.	2.1	
2.	The monitor shall be hand held and capable of providing accurate and instant results with alarms and continuous displays.			Compliance Statement	3.1.1.1.	
3.	The monitor shall be provided with an adjustable, removable carrying harness enabling the monitor to be worn comfortably on the chest, shoulder and on the waist.			Specification Data	3.1.1.2	
4.	The monitor shall be capable of being turned on-off, mode changed, zeroed and calibrated and be easily manipulated while the operator is wearing protective gloves.			Compliance Statement	3.1.1.3.	
5.	The monitor shall be of a hand held portable instrument with 5-sensors, and shall have the capability of adding a 6 th sensor.			Specification Data	3.1.1.4.	
6.	The monitor shall be a microprocessor based technology, with a push button control panel.			Specification Data	3.1.1.5	
7.	The monitor shall be provided with audible, vibration, and visible alarms, as a minimum there shall be audible and visible alarms for faulty sensors, low battery, circuit failure and low pump flow.			Specification Data	3.1.1.6.	
8.	The monitor shall be capable of being powered by both a rechargeable and a non-rechargeable commercially available battery power source.			Specification Data	3.1.1.7.	
9.	The monitor shall be provided with a protective outer shell resistant to the elements.			Compliance Statement & Specification Data	3.1.1.8.	
10.	The monitor shall be designed such that a diagnostic check is performed as part of the start-up routine, that as a minimum shall verify correct operation of the audible and visual alarms, electronic circuits, the battery state of charge, sensor status and indicate what sensors are installed.			Specification Data	3.1.1.9.	
11.	The monitor shall be manufactured from materials that shall be sufficiently corrosion resistant to withstand the marine environment during the useful			Compliance Statement	3.1.1.10.	

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	life of the kit and the hazardous atmosphere that the kit is exposed to during operation.				
12.	The monitor shall be capable of operating over a temperature range of -10 degrees Celsius to +40 degrees Celsius.			Specification Data	3.1.1.11.
13.	The monitor shall be capable of operating within a humidity range of 15% to ninety percent 90%, non-condensing within the temperature range specified in Para. 3.1.1.11.			Specification Data	3.1.1.12.
14.	The monitor shall be water and dirt resistant In Accordance With (IAW) Ingress Protection (IP) 65.			Specification Data	3.1.1.13.
15.	The monitor shall be Canadian Standards Association (CSA) certified as intrinsically safe IAW C22.2 No. 157-92 to Class I, Division 1, Groups A, B, C and D.			Specification Data	3.1.1.14.
16.	The monitor shall be Electro-Magnetic Interference (EMI) and Radio Frequency Interference (RFI) certified IAW Electro-Magnetic Compatibility (EMC) directive 89/336/ECC.			Specification Data	3.1.1.15.
17.	The monitor shall be capable of data transfer with both a Personal Computer (PC) and the provided automatic docking station.			Compliance Statement	3.1.1.16.
18.	The monitor display shall be of the Liquid Crystal Display (LCD) type, with readout of a minimum of 6 sensor readings, peak gas readings, alarm conditions, fault conditions, date and time, low battery, elapsed time and operator prompt messages.			Specification Data	3.1.2.1
19.	Intentionally left blank				
20.	The monitor display shall be designed with a display back light that will automatically turn on in low light conditions			Specification Data	3.1.2.3.
21.	The monitor display shall be capable of showing all 6 channel readouts simultaneously, with minimum display ranges as follows:			N/A.	3.1.2.4.
22.	i. 0 - 25% for O ₂ (oxygen);			Specification Data	3.1.2.4.1.
23.	ii. 0 - 500 ppm for CO (carbon monoxide);			Specification Data	3.1.2.4.2.
24.	iii. 0 - 50 ppm for H ₂ S (hydrogen sulphide); and			Specification Data	3.1.2.4.3.
25.	iv. 0 - 100% LEL for explosive gases.			Specification Data	3.1.2.4.4.
26.	v. 200 - 2000 ppm isobutylene for H ₂ OCs			Specification Data	3.1.2.4.5.
27.	The monitor display shall be designed with the capability of displaying both French and English language prompts.			Specification Data	3.1.2.5.

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28.	The monitor shall be provided with standard 5-sensor types (as listed below 29-33) as a minimum with the capability to add a 6 th sensor. The 5 standard sensors shall be capable of detecting the following:			N/A.	3.1.3.1.
29.	i. oxygen;			Specification Data	3.1.3.1.1.
30.	ii. carbon monoxide;			Specification Data	3.1.3.1.2.
31.	iii. hydrogen sulphide; and			Specification Data	3.1.3.1.3.
32.	iv. LEL of explosive gases (electro-chemical sensor).			Specification Data	3.1.3.1.4.
33.	v. Threshold Limit Values (TLVs) for HVOcs (photo ionization sensor).			Specification Data	3.1.3.1.5.
34.	The monitor shall be designed with the capability to detect the Threshold Limit Values (TLVs) of HVOcs such as JP5/JP8 and diesel fuel with the resolution of:			Specification Data	3.1.3.2.
35.	Range: 0 to 200 ppm isobutylene equivalent (Sensitivity: 0.1 ppm isobutylene); and			Specification Data	3.1.3.2.1.
36.	Range: 200 to 2000 ppm isobutylene equivalent (Sensitivity: 1.0 ppm isobutylene).			Specification Data	3.1.3.2.2.
37.	The monitor shall be capable of supporting optionally available sensors (but not to be included in the kits) that can measure and detect sulphur dioxide, ammonia, nitric oxide, chlorine, nitrogen dioxide, and hydrogen cyanide.			Specification Data	3.1.3.3.
38.	The monitor shall be designed such that the sensors are easily replaceable in the field, requiring no more than a screwdriver to change the sensors that shall be easily accessible, without substantial disassembly of the monitor.			Compliance Statement	3.1.3.4.
39.	The monitor shall be capable of accurately monitoring the target gases by simple infusion of the surrounding atmosphere, or by reaction to a remote sample which is pumped into the sensor housing.			Test Report	3.1.3.5.
40.	The monitor shall be provided with sensors designed for a minimum of 2 year shelf life.			Compliance Statement	3.1.3.6.
41.	The monitor shall be capable to detect and initiate alarms for the standard gases preset to the DND alarm points and the current American Conference of Governmental Industrial Hygienists (ACGIH) TLVs as follows:			Specification Data	3.1.3.7.
42.	i. Oxygen: 22.0% high & 20% low			Specification Data	3.1.3.7.1.
43.	ii. Carbon monoxide: Ceiling200 ppm STEL50 ppm TWA25 ppm			Specification Data	3.1.3.7.2.
44.	iii. Hydrogen Sulphide: Ceiling10 ppm			Specification Data	3.1.3.7.3.

		STEL5 ppm TWA1 ppm							
45.	iv. LEL:	10%							
46.	v. HVOC	STEL.....25 ppm TWA.....10 ppm						Specification Data	3.1.3.7.4.
47.	The monitor shall be capable of having all sensor alarm limits set or reset by the operator.							Specification Data	3.1.3.7.5.
48.	The sampling pump shall be easily fitted to the monitor with the use of common tools such as screwdrivers or wrenches.							Compliance Statement	3.1.3.8.
49.	The sampling pump shall be provided with a 6 m and a 10 m suction hose made from chemically resistant material including filter and probe.							Compliance Statement	3.1.4.1.
50.	The sampling pump shall be fitted with a liquid shut down system to exclude the ingestion of fluids.							Compliance Statement & Equipment checklist	3.1.4.2.
51.	The sampling pump shall be fitted with an audible and a visual low flow alarm for the mechanical sampling pump.							Specification Data	3.1.4.3.
53.	The sampling pump shall be CSA certified as intrinsically safe IAW CSA C22.2 No. 157-92 to Class I, Division 1, Groups A, B, C and D.							Specification Data	3.1.4.4.
54.	The Sampling Pump shall be EMC/RFI certified IAW EMC directive 89/356/ECC.							Specification Data	3.1.4.5.
55.	The sampling pump shall be capable of being turned "On" & "Off" automatically when the monitor is turned "On" & "Off".							Specification Data	3.1.4.6.
56.	The rechargeable battery capacity shall support a minimum 10 hour run-time without the sampling pump and a minimum of 8 hours with the pump and back light on.							Compliance Statement	3.1.4.7.
57.	A 110 volt 60 hertz AC battery charger shall be provided capable of recharging and trickle charging of the monitor battery.							Specification Data	3.1.5.1.
58.	Lights that indicate when the battery is charging, and when charging is complete, shall be mounted on the battery charger.							Compliance Statement & Equipment Checklist	3.1.5.2.
59.	The maximum recharging time shall be 6 hours.							Specification Data	3.1.5.3.
60.	A battery holder assembly for commercially available non-rechargeable batteries, shall also be provided (if required).							Specification Data	3.1.5.4.
61.	Alarm points, data and set-up variables shall be maintained in memory by a secondary battery with a minimum 5 year life.							Compliance Statement & Equipment Checklist	3.1.5.5.
62.	The calibration kit shall include a valve type flow regulator.							Specification Data	3.1.5.6.
								Compliance Statement &	3.1.6.1.

63.	The calibration kit shall contain all the necessary hoses, fittings and attachments.				Equipment Checklist	
64.	Intentionally left blank				Compliance Statement & Equipment Checklist	3.1.6.2.
65.	The calibration kit shall have all its components fitted into the main carrying case				Compliance Statement	3.1.6.3.
66.	The calibration cylinders shall be supplied separately and packaged accordingly from the Calibration Kit as this item will be a separately demandable consumable.				Compliance Statement	3.1.7.1.
67.	The calibration cylinders shall include metal cylinders containing appropriate compressed calibration gas for the standard 5-sensor configuration.				Compliance Statement	3.1.7.2.
68.	The calibration cylinders shall be filled with calibration gas which has a shelf life of 1 year minimum (from date of delivery).				Compliance Statement	3.1.7.3.
69.	The calibration cylinders shall be provided with bilingual labels with the expiry date clearly marked on the cylinder.				Compliance Statement	3.1.7.4.
70.	The calibration cylinders shall be provided with bilingual labels to identify the full name of the constituent gases, as well as the appropriate % LEL and ppm units.				Compliance Statement	3.1.7.5.
71.	The calibration cylinders shall be provided with a bilingual Material Safety Data Sheets (MSDS) included with the gas cylinders.				Compliance Statement	3.1.7.6.
72.	The calibration cylinders shall be of a sufficient volume of gas to provide for 40 standard calibrations.				Compliance Statement	3.1.7.7.
73.	The monitor shall have a minimum data logging capability of 40 hours at 1 minute intervals for all 6 channels.				Specification Data	3.1.8.1.
74.	The logged data shall include: date, time, instantaneous readings and calibration dates.				Specification Data	3.1.8.2.
75.	The kit shall contain all the necessary cables, adapters for downloading of stored monitoring data onto a printer and/or PC.				Compliance Statement & Equipment Checklist	3.1.8.3.
76.	The kit shall include any data downloading software required on a CD/DVD.				Compliance Statement & Equipment Checklist	3.1.8.4.
77.	The kit shall include bilingual data logging and data transfer instructions if they are not included in the main operators manual.				Compliance Statement & Equipment Checklist	3.1.8.5.

78.	The monitor shall be provided with either a USB 2.0 (minimum) port or an interface cable to allow for a connection with a USB 2.0 device, as well as any required software.				Specification Data	3.1.8.6.	
79.	A water resistant hard shell carrying/transport case shall be provided with each kit. The monitor and all ancillary equipment identified in Para. 2.5.1 shall be fitted into specific locations within a foam filled case liner.				Compliance Statement & Equipment Checklist	3.1.9.1.	
80.	A name plate with the manufacturers part number, NATO Stock Number (NSN) as well as a calibration required date label shall be affixed to the exterior of the carrying case.				Compliance Statement & Equipment Checklist	3.1.9.2.	
81.	The calibration kit shall include a storage location fitted for the calibration cylinder.				Compliance Statement	3.1.9.3.	
82.	A bilingual operators manual shall be provided in both a hard copy (bound, with no loose sheets) and in electronic format on a CD/ DVD compatible with Microsoft Windows XP and Microsoft Office 2003. The Contractor shall be responsible for Technical Accuracy Certificate (TAC) when signing the Certificate of TAC, certifying the accuracy of the translated text.				Compliance Statement & Equipment Checklist	3.1.10.1.	
83.	The operator's manual shall include safety warnings and precautions, kit contents, operating instructions, zeroing and calibration instructions, routine maintenance by the operator, trouble shooting, data logging and data downloading instructions, storage criteria and a list of consumable parts.				Compliance Statement	3.1.10.2.1.	
84.	The operator's manual shall reflect the DND alarm limits and prompts that the operator would see on the monitor display.				Compliance Statement	3.1.10.2.2.	
85.	A bilingual language laminated operation and fault finding chart.				Compliance Statement & Equipment Checklist	3.1.10.3.	
86.	A bilingual language checklist with a complete description of the kit as received in the shipping containers.				Compliance Statement & Equipment Checklist	3.1.10.4.	
87.	A bilingual language list of consumables and their estimated time of replacement.				Compliance Statement & Equipment Checklist	3.1.10.5.	
88.	The Docking station shall be capable of the following:				N/A.	3.1.11.1.	
89.	i. performing automatic calibration of the monitor				Specification Data	3.1.11.1.1.	
90.	ii. bump test; and				Test Report	3.1.11.1.2.	
91.	iii. data transfer of logged data from the monitor.				Specification Data	3.1.11.1.3.	
92.	The contractor shall provide a List of Recommended Spare Parts List (RSPL) to be maintained by the CF.				Compliance Statement	3.2.1.1.1.	
93.	The contractor shall provide a List of Preventative and Corrective				Compliance Statement	3.2.1.1.2.	

	Maintenance activities with an estimated schedule, if available.					
94.	The contractor shall provide a Parts Manual of those components replaceable by the CF, in bilingual format (separate English and French versions are acceptable).				Compliance Statement	3.2.1.1.3.
95.	The contractor shall provide a list and/or drawings of the Multi-Gas Detector Kit and its major components for cataloguing and assigning NATO Stock Numbers (NSNs).				Compliance Statement	3.2.1.1.4.
96.	The contractor shall provide a copy of the basic training material (handouts, lesson plans and exercises) paper and electronic (format to be compatible with MS Windows XP).				Compliance Statement	3.2.1.1.5.
97.	The Multi-Gas Detector Kit shall be designed such that the operator can perform calibration, charging of the battery, changing sensors, and setting of alarm points and downloading logged data.				Compliance Statement	3.2.2.1
98	The contractor shall provide up to 35 half day operator training sessions, for a class size of approximately 5 to 15 students, at Canadian Forces Bases (CFBs). The training shall be provided in Canada's official languages as required for each specific location. Note: The training sessions may occur prior to the kit delivery to each specific base and may occur in random order, with reference to geographical location.. The bidder shall provide training kits				Compliance Statement	3.2.3.1.1.
99.	The contractor shall provide bilingual ICT courses for the user communities instructional personnel that will be of sufficient depth and content to enable them to provide continuity training to the user community. The bidder shall provide training kits This training will be carried out at the following locations:				N/A.	3.2.3.2.1.
100.	i. CFB Halifax;				Compliance Statement & Lesson Plans	3.2.3.2.1.1.
101.	iv. CFB Borden; and					3.2.3.2.1.2.
102.	v. CFB Esquimalt.					3.2.3.2.1.3.
103.	The training (both operator and ICT) courses are to include the following:				N/A.	3.2.3.2.2.
104.	i. Equipment description;				Compliance Statement & Lesson Plans	3.2.3.2.2.1.
105.	ii. Set up and pack up with/without wireless laptop connection;					3.2.3.2.2.2.
106.	iii. Sampling;					3.2.3.2.2.3.
107.	iv. Analysis;					3.2.3.2.2.4.
108.	v. Saving, retrieving and sending reports;					3.2.3.2.2.5.

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109.	vi. Power connections, battery change; and					3.2.3.2.2.6.	
110.	vii. Calibration.					3.2.3.2.2.7.	
111.	The contractor shall provide a minimum 3 year warranty on the monitor electronics and a minimum 2 year non-prorated warranty on the sensors. The contractor is to include a warranty statement listing what is covered by warranty, for how long and the warranty claim procedure. Warranty Turn Around Time (TAT) shall not exceed 90 calendar days.				Compliance Statement	3.4.1.	

TABLE 2 – DESIRABLE REQUIREMENTS FOR THE MULTI-GAS DETECTOR KIT FOR CONFINED SPACE ENTRY AND HEAVY ORGANIC VOLATILE COMPOUNDS

Requirement ID	Desirable Requirements	Offered	Evaluation Score	Evaluation Compliance Methods	SOW Ref	Reference in Bidder's Response
			(Points)			
1.	The monitor and sampling pump (including all batteries) should weigh less than 1.0 kg.		50	Specification Data	4.2.1.	
2.	The monitor should be capable of providing an intermittent audible tone to indicate that the monitor is operating correctly.		20	Specification Data	4.3.1	
3.	The monitor should be capable such that that the gas alarms can be set to latching or non-latching position.		10	Specification Data	4.3.2	
4.	The monitor should indicate the requirement for pending sensor replacement based on an indication of sensor reserve capacity during calibration or as a selectable diagnostic display.		50	Specification Data	4.3.3	
5.	The monitor alarms should have a reset capability to reset all sensor alarm points to the DND default values listed in the Essential section IAW Para. 3.1.3.7.		20	Specification Data	4.3.4.	
6.	The monitor should have an operator selectable menu of "K" factors for a minimum of 20 pre-programmed common flammable gases		20	Specification Data	4.3.5.	
7.	The monitor should have the capability of allowing the operator to install a "K" factor for a non pre-programmed flammable gas.		20	Specification Data	4.3.6.	
8.	The contractor should provide equipment software updates for 10 years at no additional cost.		20	Compliance Statement	4.3.7.	
9.	The monitor should have an audible "man down" alarm		25	Compliance Statement	4.3.8.	
10.	The monitor sensors should have a three (3) year warranty		25	Compliance Statement	4.3.9.	
11.	The monitor display should be capable of displaying the date as dd/mm/yy. Example: 22 Jul 11.		20	Specification Data	4.4.1.	
12.	The monitor should have the ability to display logged data through the monitor LCD without the use of a computer.		20	Specification Data	4.4.2.	
13.	The rechargeable monitor battery should provide power to both the monitor and the sampling pump.		30	Specification Data	4.5.1.	
14.	The rechargeable monitor battery should be designed such that it can be		20	Compliance Statement	4.5.2.	

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Requirement ID	Desirable Requirements	Offered	Evaluation Score	Evaluation Compliance Methods	SOW Ref	Reference in Bidder's Response
			(Points)			
	replaced by the operator without the use of tools.					
15.	The monitor battery should be capable of being charged by 12V vehicle power.		15	Compliance Statement	4.5.3.	
16.	The kit should contain an adapter for 12V vehicle power charging.		15	Compliance Statement & Equipment Checklist	4.5.4.	
17.	The monitor and motorized sampling pump should be designed such that no tools are required to fit or remove the motorized sampling pump.		10	Compliance Statement	4.6.1.	
18.	Backed up by a manually operated bulb type pump and hose that shall be provided in each kit		10	Compliance Statement	4.6.2.	
	TOTAL AVAILABLE POINTS		400			