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11 Laurier St. / 11, rue Laurier

Place du Portage, Phase III

Core 0B2 / Noyau 0B2

Gatineau, Québec K1A 0S5

Bid Fax: (819) 997-9776

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

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

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

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Fuel & Construction Products Division
L'Esplanade Laurier,
140 O'Connor Street,
East Tower, 4th floor,
Ottawa
Ontario
K1A 0S5

Title - Sujet Mixed and pure gases	
Solicitation No. - N° de l'invitation K8A21-200580/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client K8A21-200580	Date 2020-03-09
GETS Reference No. - N° de référence de SEAG PW-\$\$HL-674-78411	
File No. - N° de dossier hl674.K8A21-200580	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-03-23	Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Coconetu, Traian	Buyer Id - Id de l'acheteur hl674
Telephone No. - N° de téléphone (343) 543-9502 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

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

Amendment 001

THIS AMENDMENT IS RAISED TO:

1. **Extend the closing date**
2. **Answer Questions from Potential Suppliers**
3. **Amend the Request for Proposals**

1. Revise the closing date:

The closing date is hereby extended to **March 23, 2020 at 2:00 pm EDT.**

2. Questions from Potential Suppliers:

Q1. In Table 2. Mandatory Specifications on page 21 of the RFP, some of the concentrations in the "Suggested Nominal Concentration to order" column are below the "Min acceptable". Please confirm the correct Suggested ranges for these mixtures.

A1. Corrections have been made to Table 2 to ensure that the nominal concentrations of the gases requested for purchase are within the range of Minimum and Maximum concentrations for the specific ranges. The changes are highlighted in yellow. (See below).

Q2. In the Annex B2 Pricing Table on pages 27, 28 & 29 of the RFP, some of the concentrations in the "Suggested nominal concentration to order" column are lower than the "Min Accept". Please confirm the correct Suggested ranges for these mixtures. Also, ranges in the "Mixed Gases Product Desc" column do not match the "suggested nominal concentration". Can you confirm?

A2. Corrections have been made to the "suggested nominal concentrations to order" in Annex B2 Pricing tables, to ensure that these concentrations are between the Minimum and Maximum for the selected ranges. In addition, requested concentrations for the specific ranges have been revised to reflect more appropriate levels. Also, the number of cylinders to be purchased has been revised. All of these changes are highlighted in yellow. (See below).

Q3. In this tender, it does not mention anything about the origin of the cylinders. It might have just been missed since they usually include a clause that cylinders are to be supplied.

A3. The cylinders for the gases are to be supplied free of charge when the gases are delivered. The cylinders will be available for pickup by the contractor at the consignee's location when completed. The cylinders are to meet technical requirements specified by CGA as required.

3. The RFP is hereby amended as follows:

At Annex A, DELETE:

“Table 2: Mandatory specifications: Target mixture concentration with proposed tolerances” in its entirety.

INSERT:

Table 2: Mandatory specifications: Target mixture concentration with proposed tolerances

The following tables indicate the gas mixture concentration required for each gas analyzer range. There is a suggested nominal concentration to order. That value is Canada targeted value. The minimum and maximum column indicates the range Canada will accept. Gases with a concentration higher or lower than those mentioned, will be considered out of tolerance and might be rejected at the discretion of the purchaser.

The cylinder size for all mixed and pure gases, should be size 200 for steel cylinders and size 152 for aluminum cylinders.

2 gases mixture				
	Analyzer Range ppm	Min acceptable	Suggested nominal concentration to order	Max acceptable
CO in N2	10	6.52	8.15	9.77
	30	23.90	26.65	29.00
	100	80.13	90 ppm	95.00
	300	240.60	265 ppm	285.00
	1000	789.00	890 ppm	950.00
	4000	3200.00	3850.00	4980.00

2 gases mixture				
	Analyzer Range %	Min acceptable	Suggested nominal concentration to order	Max acceptable
CO2 in N2	1%	0.78%	0.80%	98.00%
	2%	1.68%	1.80%	198.00%
	3%	2.51%	2.80%	298.00%
	5%	4.19%	4.50%	498.00%

2 gases mixture				
	Analyzer Range ppm	Min acceptable	Suggested nominal concentration to order	Max acceptable
Nox in N2	5	3.48	4	4.52
	10	8.00	8.50	9.50
	30	24.00	26.00	29.50
	100	80.00	85.00	98.50
	300	240.60	270.00	290.00
	1000	789.00	900.00	950.00

2 gases mixture				
	Analyzer Range ppm	Min acceptable	Suggested nominal concentration to order	Max acceptable
THC in Air	10	2.60	2.7 ppm	2.90
order	30	7.92	8 ppm	9.50
propane	100	26.28	28 ppm	30.00
	300	79.83	85 ppm	98.00
	1000	266.04	295 ppm	325.00

2 gases mixture				
	Analyzer Range ppm	Min acceptable	Suggested nominal concentration to order	Max acceptable
Ethanol	100	77.26	88.00	98.74
in Air	1000	746.30	850.00	953.70
Note: certified std prep tolerance 10%, Analytical accuracy 2%				

2 gases mixture				
	Analyzer Range ppm	Min acceptable	Suggested nominal concentration to order	Max acceptable
Ethane	15	12.29	14.00	15.71
in Air	100	76.39	87.00	97.61
Note: certified std prep tolerance 10%, Analytical accuracy 2%				

2 gases mixture				
	Analyzer Range ppm	Min acceptable	Suggested nominal concentration to order	Max acceptable
Methane	10	7.92	8 ppm	9.50
in Air	30	26.28	28 ppm	30.00
	100	79.83	85 ppm	98.00

2 gases mixture				
	Analyzer Range	Min acceptable	Suggested nominal concentration to order	Max acceptable
Oxygen	5%	3.95	4.50	5.05
in N2	9%	7.90	9.00	10.10
Note: certified std prep tolerance 10%, Analytical accuracy 2%				

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5 gases mixture for bar 97 style gas analyzers				
	Analyzer Range	Min acceptable	Suggested nominal concentration to order	Max acceptable
CO2		4.39	5.00	5.61
CO		0.40	0.45	0.50
NO		245.84	280.00	314.16
C3H8		158.04	180.00	201.96
Balanced in Nitrogen -Oxygen free NIST traceable				

5 gases mixture for bar 97 style gas analyzers				
	Analyzer Range	Min acceptable	Suggested nominal concentration to order	Max acceptable
CO2		10.10	11.50	12.90
CO		7.02	8.00	8.98
NO		2546.20	2900.00	3253.80
C3H8		2546.20	2900.00	3253.80
Balanced in Nitrogen -Oxygen free NIST traceable				

5 gases mixture for bar 97 style gas analyzers				
	Analyzer Range	Min acceptable	Suggested nominal concentration to order	Max acceptable
CO2		6.15	7.00	7.85
CO		3.95	4.50	5.05
NO		1580.40	1800.00	2019.60
C3H8		1668.20	1900.00	2131.80
Balanced in Nitrogen -Oxygen free NIST traceable				

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Pipeline Natural Gas BTU Cert 200Z				
	Analyzer Range	Min acceptable	Suggested nominal concentration to order	Max acceptable
Ethane		1.4231%	1.4260%	1.5717%
Propane		0.1238%	0.1250%	0.1263%
Isobutane		0.0109%	0.0110%	0.0111%
Butane		0.0129%	0.0130%	0.0131%
Isopentane		0.0040%	0.0040%	0.0040%
Pentane		0.0059%	0.0060%	0.0061%
Carbon Dioxide		0.4917%	0.5600%	0.6283%
Nitrogen		1.5936%	1.8150%	2.0364%
Oxygen		0.0088%	0.0100%	0.0112%
Hexane		0.0009%	0.0010%	0.0011%
Methane		95.0697%	96.0300%	96.9903%
		3.675%	3.971%	4.409%
		98.745%	100.001%	101.400%
Note: A batch analysis for each component named in the above table (pipeline Natural gas) must be supplied with each order. Quote analysis cost separately				

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At Annex B2, DELETE:
“ANNEX “B2” – Pricing Table Mixed Gases” in its entirety.

INSERT:
Annex B2 – Pricing Tables Mixed Gases

MIXED GASES Product Description - Air Liquide	Mixture Preparation Tolerance Certified	Mixture Preparation Tolerance Certified Plus	Analytical Accuracy	Suggested nominal concentration to order	Min accept.	Max accept.	Volume	Size	Cylinder Dimensions	Product Code	Estimated Cylinder quantity per year (A)	Contract Year 1: Unit price per cylinder (2020-2021) (B)	Contract Year 2: Unit price per cylinder (2021-2022) (C)	Contract Year 3: Unit price per cylinder (2022-2023) (D)	Contract Option 1: Unit price per cylinder (2023-2024) (E)	Contract Option 2: Unit price per cylinder (2024-2025) (F)
(1.0% RANGE) 0.80% Carbon Dioxide In Nitrogen - Certified	+ / - 10%	+ / - 2%	+ / - 2%	0.80%	0.776%	0.98%	213 Ft3	200	9" X 51"	_____	6	\$	\$	\$	\$	\$
(2.0% RANGE) 1.80 % Carbon Dioxide In Nitrogen - Certified	+ / - 10%	+ / - 2%	+ / - 2%	1.80%	1.68%	1.98%	213 Ft3	200	9" X 51"	_____	12	\$	\$	\$	\$	\$
(3.0% RANGE) 2.8% Carbon Dioxide In Nitrogen - Certified	+ / - 10%	+ / - 2%	+ / - 2%	2.80%	2.51%	2.98%	213 Ft3	200	9" X 51"	_____	4	\$	\$	\$	\$	\$
(5.0% RANGE) 4.5% Carbon Dioxide In Nitrogen - Certified	+ / - 10%	+ / - 2%	+ / - 2%	4.50%	4.19%	4.98%	213 Ft3	200	9" X 51"	_____	4	\$	\$	\$	\$	\$
(30 RANGE) 28 ppm Carbon Monoxide In Nitrogen - Certified	+ / - 20%	+ / - 5%	+ / - 5%	26 ppm	23.9 ppm	29 ppm	141 Ft3	152	8" X 48"	_____	12	\$	\$	\$	\$	\$
(100 RANGE) 90 ppm Carbon Monoxide In Nitrogen - Certified	+ / - 20%	+ / - 5%	+ / - 5%	90 ppm	80.13	95 ppm	141 Ft3	152	8" X 48"	_____	12	\$	\$	\$	\$	\$

MIXED GASES Product Description - Air Liquide	Mixture Preparation Tolerance Certified	Mixture Preparation Tolerance Certified Plus	Analytical Accuracy	Suggested nominal concentration to order	Min accept.	Max accept.	Volume	Size	Cylinder Dimensions	Product Code	Estimated Cylinder quantity per year (A)	Contract Year 1: Unit price per cylinder (2020-2021) (B)	Contract Year 2: Unit price per cylinder (2021-2022) (C)	Contract Year 3: Unit price per cylinder (2022-2023) (D)	Contract Option 1: Unit price per cylinder (2023-2024) (E)	Contract Option 2: Unit price per cylinder (2024-2025) (F)
(300 RANGE) 265 ppm CO bal N2 Carbon Monoxide Nitrogen - Certified	+ / - 20%	+ / - 5%	+ / - 5%	265 ppm	240.60	285 ppm	141 Ft3	152	8" X 48"	_____	8	\$	\$	\$	\$	\$
(1000 RANGE) 890 ppm Carbon Monoxide in Nitrogen - Certified	+ / - 20%	+ / - 5%	+ / - 5%	890 ppm	789.00	950 ppm	141 Ft3	152	8" X 48"	_____	4	\$	\$	\$	\$	\$
(2000 RANGE) 1950 ppm Carbon Monoxide in Nitrogen - Certified	+ / - 20%	+ / - 5%	+ / - 5%	1850 ppm	1750ppm	1950 ppm	141Ft3	152	8" X 53"	_____	4	\$	\$	\$	\$	\$
(4000 RANGE) 3850 ppm Carbon Monoxide in Nitrogen - Certified	+ / - 20%	+ / - 5%	+ / - 5%	3850 ppm	3200.00	4980 ppm	141 Ft3	152	8" X 48"	_____	2	\$	\$	\$	\$	\$
(10 PPM RANGE) 2.7 ppm Propane in Air Ultra Zero - Certified	+ / - 20%	+ / - 5%	+ / - 5%	2.7 ppm	2.6 ppm	2.9 ppm	213 Ft3	152	8" X 53"	_____	8	\$	\$	\$	\$	\$
(30 RANGE) 8 ppm Propane in Air Ultra Zero - Certified	+ / - 20%	+ / - 5%	+ / - 5%	8 ppm	7.92 ppm	9.5 ppm	213 Ft3	152	8" X 48"	_____	8	\$	\$	\$	\$	\$
(90 RANGE) 28 ppm Propane in Air Ultra Zero - Certified	+ / - 20%	+ / - 5%	+ / - 5%	28 ppm	26.28 ppm	30 ppm	213 Ft3	200	9" X 51"	_____	8	\$	\$	\$	\$	\$

MIXED GASES Product Description - Air Liquide	Mixture Preparation Tolerance Certified	Mixture Preparation Tolerance Certified Plus	Analytical Accuracy	Suggested nominal concentration to order	Min accept.	Max accept.	Volume	Size	Cylinder Dimensions	Product Code	Estimated Cylinder quantity per year (A)	Contract Year 1: Unit price per cylinder (2020-2021) (B)	Contract Year 2: Unit price per cylinder (2021-2022) (C)	Contract Year 3: Unit price per cylinder (2022-2023) (D)	Contract Option 1: Unit price per cylinder (2023-2024) (E)	Contract Option 2: Unit price per cylinder (2024-2025) (F)
(300 RANGE) 85 ppm Propane in Air Ultra Zero - Certified	+ / - 20%	+ / - 5%	+ / - 5%	85 ppm	79.83 ppm	98 ppm	213 Ft3	200	9" X 51"	_____	8	\$	\$	\$	\$	\$
(1000 RANGE) 295 ppm Propane in Air Ultra Zero - Certified	+ / - 20%	+ / - 5%	+ / - 5%	295 ppm	266.04 ppm	325 ppm	213 Ft3	200	9" X 51"	_____	8	\$	\$	\$	\$	\$
(6 RANGE) 4.0 ppm Nitric Oxide in Nitrogen - Certified	+ / - 20%	+ / - 5%	+ / - 5%	4 ppm	3.48 ppm	4.52 ppm	213 Ft3	200	9" X 51"	_____	1	\$	\$	\$	\$	\$
(10 RANGE) 8.5 ppm Nitric Oxide in Nitrogen - Certified	+ / - 20%	+ / - 5%	+ / - 5%	8.5 ppm	8 ppm	9.5 ppm	141 Ft3	152	8" X 48"	_____	16	\$	\$	\$	\$	\$
(30 RANGE) 26 ppm Nitric Oxide in Nitrogen - Certified	+ / - 20%	+ / - 5%	+ / - 5%	26 ppm	24 ppm	29.5 ppm	141 Ft3	152	8" X 48"	_____	8	\$	\$	\$	\$	\$
(100 RANGE) 85 ppm Nitric Oxide in Nitrogen - Certified	+ / - 20%	+ / - 5%	+ / - 5%	85 ppm	80 ppm	98.5 ppm		152		_____	12	\$	\$	\$	\$	\$
(300 RANGE) 270 ppm Nitric Oxide in Nitrogen - Certified	+ / - 20%	+ / - 5%	+ / - 5%	270 ppm	240.6 ppm	290 ppm	141 Ft3	152	8" X 48"	_____	8	\$	\$	\$	\$	\$
40.5% Hydrogen in Helium - Primary	+ / - 20%	+ / - 5%	+ / - 5%				141 Ft3	152	9" X 51"	_____	90	\$	\$	\$	\$	\$
(P5) 5% Methane in Argon	+ / - 20%	+ / - 5%	+ / - 5%				141 Ft3	152	9" X 51"	_____	4	\$	\$	\$	\$	\$

MIXED GASES Product Description - Air Liquide	Mixture Preparation Tolerance Certified	Mixture Preparation Tolerance Certified Plus	Analytical Accuracy	Suggested nominal concentration to order	Min accept.	Max accept.	Volume	Size	Cylinder Dimensions	Product Code	Estimated Cylinder quantity per year (A)	Contract Year 1: Unit price per cylinder (2020-2021) (B)	Contract Year 2: Unit price per cylinder (2021-2022) (C)	Contract Year 3: Unit price per cylinder (2022-2023) (D)	Contract Option 1: Unit price per cylinder (2023-2024) (E)	Contract Option 2: Unit price per cylinder (2024-2025) (F)
(MIX1-LD) CO-16ppm, CO2-1.6%,Propan e-25ppm¹, bal Air - Certified	+ / - 10%	+ / - 2%	+ / - 2%				141 Ft3	200	8" X 48"	_____	2	\$	\$	\$	\$	\$
(MIX2-LD) CO-45ppm, CO2-1.6%,Propan e-50ppm, bal Air - Certified	+ / - 10%	+ / - 2%	+ / - 2%				141 Ft3	200	8" X 48"	_____	2	\$	\$	\$	\$	\$
(On-RD) 800 ppm Methane in Air	+ / - 20%	+ / - 5%	+ / - 5%				209Ft3	200	9" X 51"	=====	2	\$	\$	\$	\$	\$
(On-RD) 800 ppm Methane in Air	+ / - 20%	+ / - 5%	+ / - 5%	0%	0%	0	209Ft3	200	9" X 51"	=====	2	\$	\$	\$	\$	\$
(On-RD) 1.5% Methane in Air	+ / - 20%	+ / - 10%	+ / - 2%				209Ft3	200	9" X 51"	=====	2	\$	\$	\$	\$	\$
(On-RD) 2.5% Methane in Air	+ / - 20%	+ / - 5%	+ / - 5%	0	0	0	209Ft3	200	9" X 51"	=====	2	\$	\$	\$	\$	\$
(Original- M1/Ld)170.0 ppm CO, 66.0 ppm Propane,1.8 % CO2; bal Air - Certified	+ / - 10%	+ / - 2%	+ / - 2%				141 Ft3	200	8" X 48"	_____	2	\$	\$	\$	\$	\$

MIXED GASES Product Description - Air Liquide	Mixture Preparation Tolerance Certified	Mixture Preparation Tolerance Certified Plus	Analytical Accuracy	Suggested nominal concentration to order	Min accept.	Max accept.	Volume	Size	Cylinder Dimensions	Product Code	Estimated Cylinder quantity per year (A)	Contract Year 1: Unit price per cylinder (2020-2021) (B)	Contract Year 2: Unit price per cylinder (2021-2022) (C)	Contract Year 3: Unit price per cylinder (2022-2023) (D)	Contract Option 1: Unit price per cylinder (2023-2024) (E)	Contract Option 2: Unit price per cylinder (2024-2025) (F)
(Original-M2LD) 487 ppm CO, 90.0 ppm Propane,1.8 % CO2; bal Air - Certified	+ / - 10%	+ / - 2%	+ / - 2%				141 Ft3	200	8" X 48"	—	2	\$	\$	\$	\$	\$
(Marine) SO2 - 26 ppm Bal Air Certified	+ / - 20%	+ / - 5%	+ / - 5%	26 ppm	23.9 ppm	29 ppm	141 Ft3	152	8" X 48"	—	1	\$	\$	\$	\$	\$
(MIX3-LD) CO-150ppm, CO2- 1.6%, Propan e-15ppm,bal Air - Certified	+ / - 10%	+ / - 2%	+ / - 2%				209Ft3	200	9" X 51"	—	2	\$	\$	\$	\$	\$
(MX1-UTL+HD) CO-500ppm, CO2- 1.6%, Propan e- 150ppm,bal Air - Certified	+ / - 10%	+ / - 2%	+ / - 2%				209Ft3	200	9" X 51"	—	2	\$	\$	\$	\$	\$
(On-RD) 1218ppm CO, 1450ppm NO, 1000 Propane 12% CO2 Balance N2 Cert Std, AS	+ / - 10%	+ / - 5%	+ / - 2%				141 Ft3	152	8" X 48"	—	3	\$	\$	\$	\$	\$
(On-RD) 244ppm NO2, Balance N2, Cert Std, AS	+ / - 10%	+ / - 5%	+ / - 2%	244 ppm			141 Ft3	152	8" X 48"	—	3	\$	\$	\$	\$	\$

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(10 PPM RANGE) 8 ppm Methane in Air Ultra Zero - Certified	+ / - 10%	+ / - 10%	+ / - 10%	8 ppm			141 Ft3	+ / - 10%	8" X 48"	_____	8	\$	\$	\$	\$	\$
(30 PPM RANGE) 28 ppm Methane in Air Ultra Zero - Certified	+ / - 2%	+ / - 2%	+ / - 2%	28 ppm			141 Ft3	+ / - 2%	8" X 48"	_____	8	\$	\$	\$	\$	\$
(100 PPM RANGE) 90 ppm Methane in Air Ultra Zero - Certified	+ / - 2%	+ / - 2%	+ / - 2%	90ppm			141 Ft3	200	8" X 48"	_____	8	\$	\$	\$	\$	\$
Oxygen 4.5% Balance N2 Certified	+ / - 10%	+ / - 2%	+ / - 2%	4.50%			2.80%	200	9" X 51"	_____	1	\$	\$	\$	\$	\$
Oxygen 9.0% Balance N2 Certified	+ / - 10%	+ / - 2%	+ / - 2%	9.00%			2.51%	200	9" X 51"	_____	1	\$	\$	\$	\$	\$

All other terms and conditions remain unchanged