



**RETURN BIDS TO:**

**RETOURNER LES SOUMISSIONS À:**

Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions Travaux  
publics et Services gouvernementaux Canada  
Government of Canada Building  
101 - 22nd Street East, Suite 110  
Saskatoon  
Saskatchewan  
S7K 0E1  
Bid Fax: (306) 975-5397

**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**  
Public Works and Government Services Canada/Travaux  
publics et Services gouvernementaux Canada  
Harry Hays Building (HHB)  
Room 759, 220-4th Avenue SE  
Calgary  
Alberta  
T2G 4X3

<b>Title - Sujet</b> Engineering & Technical Services	
<b>Solicitation No. - N° de l'invitation</b> W7702-196174/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b> RPC-W7702-196174	<b>Date</b> 2019-08-21
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$CAL-142-6933	
<b>File No. - N° de dossier</b> CAL-9-42009 (142)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2019-08-29</b>	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Blake, Luke J.	<b>Buyer Id - Id de l'acheteur</b> cal142
<b>Telephone No. - N° de téléphone</b> (403) 613-0725 ( )	<b>FAX No. - N° de FAX</b> (306) 975-5397
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

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**This amendment has been raised to answer question from industry and amend solicitation W7702-196174/A as follows:**

**Question 1:**

With regards to the financial evaluation criteria outlined in Part 4 Section 4.1.2 referencing Annex "B" – Basis of Payment, and Appendix 1.0 to Annex "A":

If multiple people are listed under one of the resource categories do they need to have the same hourly rate or can separate rates be outlined for the different individuals?

- a. For example under Technologist (A4) can you have Jane Doe (Senior Technologist) at \$xx/hr and John Doe (Senior Technologist) at \$yy/hr?
- b. How would the hourly rate be calculated for the Financial Evaluation for resource categories that have multiple individuals assigned to them if they have different rates?

**Response 1:**

The bidder may propose multiple resources under each Resource Category. The individual resources do not need to have the same hourly rate. For evaluation purposes, the highest paid resource (based on resource hourly rate) will be multiplied by the estimated usage (annually) for that category to come up with the extended total.

One individual can be listed under more than one resource category as long as they meet the minimum qualifications for the categories and you can offer additional resources for those categories. We may require two resource categories at the same time – if Jane Doe is your only qualified Technologist and Technician, then you would not be able to meet the requirement. You would need a second Technologist or a second Technician as our requirement may not make it possible for Jane Doe to perform both roles, at the same time for the task.

**Question 2:**

Can we specify additional Resource Categories beyond the six outlined in Appendix 1.0 or are we limited to those categories?

**Response 2:**

Bidders are instructed to not list any Resource Categories beyond what is requested in the Annex "A" Statement of Work and Annex "B" Basis of Payment. The resource categories listed must be used to categorize the bidders proposed resources. Should a bidder's resources have a different position title, it will remain the bidder's responsibility to communicate in their bid the resource categories that their resources fall under.

**Note that an amendment is to follow that adds an additional Resource Category for Junior Engineer/Project Manager. Bidders are required address this Resource in their technical and financial bids.**

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**The solicitation is amended as follows:**

**On Page 10 of 53, under Part 3, Section 3.1, Section I: Technical Bid:**

**Delete:**

In their technical bid, Bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability in a thorough, concise and clear manner for carrying out the work. Bidders must describe their capability and experience, the project management team and provide client contact(s).

**Insert:**

In their technical bid, Bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability in a thorough, concise and clear manner for carrying out the work. Bidders must describe their capability and experience, the project management team and **should** provide client contact(s). **It is requested that details of any Non-Disclosure Agreements be provided with the bidder's technical bid.**

**On page 31 of 46, under Appendix 1.0 to Annex “A” – Resource Categories List**

**Delete:** In its entirety

**Insert:**

**APPENDIX 1.0 TO ANNEX “A” – RESOURCE CATEGORIES LIST**

Estimated level of effort is based on the anticipated relative demand for each resource category over the duration of the task authorization contract.

No.	Resource Category	Minimum Resources Required		Estimated Level of Effort	Associated Tasks
		Junior/Intermediate	Senior		
A1	Senior Project Engineer/Director of Engineering		1	5%	All
A2	Engineer/Project Manager (Junior and Senior)	1	1	25%	All
A3	Senior Technical Specialist (blast, explosives and reactive materials)		1	15%	All
A4	Technologist		2	30%	All
A5	Technician		2	20%	5.2
A6	Administration Support		1	5%	All

**RESOURCE QUALIFICATIONS**

**A1 – Senior Project Engineer/Director of Engineering**

- a. The resource must have a minimum education requirement of a bachelor's university degree in mechanical or aerospace engineering.
- b. The resource must be a registered Professional Engineer.
- c. The resource must have 60 months of experience in the last 60 months in managing engineers working in and projects relating to the area of energetic material detonation, explosion and shockwave phenomenology.

**A2 - Engineer/Project Manager**

**Junior**

- a. The resource must have a minimum education requirement of a bachelor's university degree in mechanical or aerospace engineering.
- b. The resource must have 24 months of experience in the last 60 months in managing projects relating to the area of energetic material detonation, explosion and shockwave phenomenology.

**Senior**

- a. The resource must have a minimum education requirement of a bachelor's university degree in mechanical or aerospace engineering.
- b. The resource must have 60 months of experience in the last 60 months in managing projects relating to the area of energetic material detonation, explosion and shockwave phenomenology.
- c. The resource must be a registered Professional Engineer.

**A3 - Senior Technical Specialist (blast, explosives, energetic and reactive materials)**

- a. The resource must have a minimum education requirement of a doctorate university degree in engineering or applied physics.
- b. The resource must have 60 months of technical experience in the last 60 months in working on projects relating to the area of energetic material detonation, explosion, shockwave and reactive material phenomenology.

**A4 – Technologist**

- a. The resource must have a minimum education requirement of a technical diploma from a recognized institution.
- b. The resource must have 60 months of experience in the last 60 months in designing, preparing for and conducting field experiments in the area of energetic material detonation, explosion and shockwave phenomenology.

**A5 – Technician**

- a. The resource must have a minimum education requirement of a technical diploma from a recognized institution.
- b. The resource must have 60 months of experience in the last 60 months in the design and fabrication of test equipment for energetic material detonation, explosion and shockwave phenomenology.

**A6 - Administration Support**

- a. The resource must have a minimum education requirement of a high school diploma from a recognized institution.

On page 33 of 46, under Annex "B" Basis of Payment:

**Delete: In its entirety.**

**Insert:**

**ANNEX "B"**

**BASIS OF PAYMENT**

Payment will be made for time expended and other costs reasonably and properly incurred from the date of contract to contract completion in accordance with the following:

**The bidder may propose multiple resources for each category with separate rates. If multiple resources are proposed, the rate for the individual with the highest hourly rate will be multiplied by the Estimated Usage to come up with the extended price for that resource category.**

The Estimated Usage is for evaluation purposes only and will not form any part of the resulting Contract.

1. Labour at firm (daily/hourly) rates. One day consists of 7.5 hours. The rates will be prorated for any period of more or less than one day.

N o.	Description (Title)	Estimated Usage (annually)	Period 1 :	Period 2:	Period 3:	Extended Price
			From Contract Award to 31 March 2020	From 01 April, 2020 to 31, March 2021	Option Year - from 01 April 2021 to 31 March 2022	
		A	B	C	D	AxB+AxC+AxD
A 1	Senior Project Engineer / Director of Engineering Name: _____	8 /hours per year	\$ _____/hour	\$ _____/hour	\$ _____/hour	\$ _____
A 2	Engineer/Project Manager - Junior Name: _____	12 /hours per year	\$ _____/hour	\$ _____/hour	\$ _____/hour	\$ _____
	Engineer/Project Manager – senior Name: _____	8 /hours per year	\$ _____/hour	\$ _____/hour	\$ _____/hour	\$ _____
A 3	Senior Technical Specialist (blast, explosives and reactive material) Name: _____	110 /hours per year	\$ _____/hour	\$ _____/hour	\$ _____/hour	\$ _____

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A 4	Technologist Name: _____	380 /hours per year	\$ _____/hour	\$ _____/hour	\$ _____/hour	\$ _____
A 5	Technician Name: _____	550 /hours per year	\$ _____/hour	\$ _____/hour	\$ _____/hour	\$ _____
A 6	Administrative Support Name: _____	16/hours per year	\$ _____/hour	\$ _____/hour	\$ _____/hour	\$ _____
Evaluated total:						\$ _____

2. Material and supplies at laid down cost without mark-up, as supported by invoice, including (list items).
3. Purchased equipment at laid down cost without mark-up, including (list items).
4. Subcontracting at actual cost incurred without mark-up, (subcontractor name)
5. Other direct charges at actual cost incurred without mark-up, including (list any other costs which may be applicable, giving an estimated cost for each e.g. computing costs, long distance telephone/facsimile charges, reproduction, shipping).
6. *Computing charges at standard university rates.  
**(Applicable to Universities only)***
7. *Standard University Overhead as follows:  
**(Applicable to Universities only)***
  - a) at a maximum 65% of on-campus labour (item 1)
  - b) at a maximum 30% of off-campus labour (item 1)
  - c) at a maximum 2% of travel expenses (item 6)
8. Profit at a firm \_\_\_\_\_% of items \_\_\_\_\_ above

**Total Estimated Cost to a Limitation of Expenditure:           \$\_\_\_\_\_(TBD)\_\_\_\_\_.**

With the exception of the firm rate(s) and price(s), the amounts shown in the various items specified above are estimates only. Minor changes to these estimates will be accepted for billing purposes as the Work proceeds, provided that these changes have the prior approval of the Technical Authority, and provided that the estimated cost does not exceed the aforementioned "Limitation of Expenditure.

APPLICABLE TAXES: The applicable taxes are not included in the amounts above. The applicable taxes are to be shown as a completely separate item on each invoice.

F.O.B. Point: Defence Research and Development Canada - Suffield

**On page 44 of 46, under Annex “G” Evaluation Criteria:**

**Delete:** in its entirety

**Insert:**

**ANNEX “G”**

**EVALUATION CRITERIA**

**1. MANDATORY EVALUATION CRITERIA**

In their proposals, bidders must demonstrate they meet the following mandatory criteria. Failure to meet any of the mandatory criteria will render the bid non-compliant and it will be given no further consideration.

	<b>CRITERIA</b>	<b>MET</b>	<b>NOT MET</b>
<b>M1</b>	<p>The Bidder must demonstrate that the proposed Senior Project Engineer/Director of Engineering resource meets the following criteria:</p> <ul style="list-style-type: none"> <li>d. The resource must have a minimum education requirement of a bachelor’s university degree in mechanical or aerospace engineering.</li> <li>e. The resource must be a registered Professional Engineer.</li> <li>f. The resource must have 60 months of experience in the last 60 months in managing engineers working in and projects relating to the areas of energetic material detonation, explosion and shockwave phenomenology.</li> </ul>		
<b>M2</b>	<p>The Bidder must demonstrate that the proposed <b>Engineer/Project Manager – Junior resources meet the following criteria:</b></p> <ul style="list-style-type: none"> <li>c. The resource must have a minimum education requirement of a bachelor’s university degree in mechanical or aerospace engineering.</li> <li>d. The resource must have 24 months of experience in the last 60 months in managing projects relating to the areas of energetic material detonation, explosion and shockwave phenomenology.</li> </ul>		
<b>M3</b>	<p>The Bidder must demonstrate that the proposed <b>Engineer/Project Manager – Senior resources meet the following criteria:</b></p> <ul style="list-style-type: none"> <li>a. The resource must have a minimum education requirement of a bachelor’s university degree in mechanical or aerospace engineering.</li> <li>b. The resource must have 60 months of experience in the last 60 months in managing projects relating to the areas of energetic material detonation, explosion and shockwave phenomenology.</li> </ul>		

	c. The resource must be a registered Professional Engineer.		
<b>M4</b>	<p>The Bidder must demonstrate that the proposed Senior Technical Specialist (blast, explosives and reactive materials) resource meets the following criteria:</p> <p>c. The resource must have a minimum education requirement of a doctorate university degree in engineering or applied physics.</p> <p>d. The resource must have 60 months of technical experience in the last 60 months in working on projects relating to the areas of energetic material processing, detonation, explosion, shockwave and reactive material phenomenologies.</p>		
<b>M5</b>	<p>The Bidder must demonstrate that the proposed Technologist resources meet the following criteria:</p> <p>c. The resource must have a minimum education requirement of a technical diploma from a recognized institution.</p> <p>d. The resource must have 60 months of experience in the last 60 months in custom designing, preparing for and conducting field experiments and related material processing in the areas of energetic materials, detonation, explosion and shockwave phenomenologies.</p>		
<b>M6</b>	<p>The Bidder must demonstrate that the proposed Technician resources meet the following criteria:</p> <p>c. The resource must have a minimum education requirement of a technical diploma from a recognized institution.</p> <p>d. The resource must have 60 months of experience in the last 60 months in the customized design and fabrication of test and related material processing equipment for energetic materials, detonation, explosion and shockwave phenomenologies.</p>		
<b>M7</b>	<p>The Bidder must demonstrate that the proposed Administration Support resource meets the following criteria:</p> <p>b. The resource must have a minimum education requirement of a high school diploma from a recognized institution.</p>		

**3. SELECTION METHODOLOGY**

**Lowest-priced Responsive Proposal**

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME