

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Réception des soumissions - TPSGC / Bid
Receiving - PWGSC
1550, Avenue d'Estimauville
1550, D'Estimauville Avenue
Québec
Québec
G1J 0C7

**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 R&D - Modeling & Simulation-FY		
Solicitation No. - N° de l'invitation W7701-155935/A	Date 2014-12-05	
Client Reference No. - N° de référence du client W7701-15-5935		
GETS Reference No. - N° de référence de SEAG PW-\$QCL-028-16236		
File No. - N° de dossier QCL-4-37151 (028)	CCC No./N° CCC - FMS No./N° VME	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-01-07		Time Zone Fuseau horaire Heure Normale du l'Est HNE
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: Roy, Josée		Buyer Id - Id de l'acheteur qcl028
Telephone No. - N° de téléphone (418) 649-2932 ()		FAX No. - N° de FAX (418) 648-2209
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: MINISTERE DE LA DEFENSE NATIONALE R & D POUR LA DÉFENSE CANADA - VALCARTIER 2459 ROUTE DE LA BRAVOURE QUEBEC Québec G3J1X5 Canada		

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Delivery Required - Livraison exigée voir doc.	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

Issuing Office - Bureau de distribution

TPSGC/PWGSC
601-1550, Avenue d'Estimauville
Québec
Québec
G1J 0C7

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qc1028

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PART 1 - GENERAL INFORMATION

1. Introduction

The bid solicitation document is divided into seven parts plus attachments and annexes as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 Security, Financial and Other Requirements: includes specific requirements that must be addressed by bidders; and
- Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Statement of Work, the Basis of Payment, the Contractor Disclosure of Foreground Information and the Security Requirements Check List.

2. Summary

(a) Title

Modeling and Simulation of Nominal and Degraded Guided Bomb

(b) Tasks

The Contractor will provide DRDC Valcartier, Weapons Systems Section with specialized technical support in the area of modelling and simulation (M&S) of air weapons. The work to be performed will involve literature reviews, analytical developments, numerical modelling, simulations experimentations, data analysis, verification and validation (V&V), and subsystem design, as well as single-process simulation and multi-processor distributed simulations.

Task 1: Component-based and capacity-based M&S of dual mode guided bomb unit (GBU) engagements in nominal conditions

Task 2: Study of M&S capacity for a lasing performance assessment in degraded environments (DE)

Task 3: Simulation analysis of the dual mode GBU model with various fuze modes, and basic lethality model, against personnel and light vehicles

Optional Task 4: Simulation analysis of the dual mode GBU survivability against kinetic attacks (KA)

Optional Task 5: Simulation analysis of maximum reachable target speeds

Task 6: Component-based and capacity-based M&S of GPS-INS guided bomb unit (GBU) engagements in nominal and component failure conditions

Task 7: C++ MarsGen based M&S guided bomb unit (GBU) engagements in nominal and component failure conditions

Task 8: M&S Capability Assessment

Task 9: Air-breathing sub-model integration into DRDC Weapons Library

Optional Task 10: Extended air-to-ground weapon model development

Task 11: Tool development, maintenance and update

Optional Task 12: Sub-model and model documentation process

Task 13: Review of Collateral Damage Estimation software

Optional Task 14: Review of a Weapons Systems Model software

(c) Client department :

The organization for which the services are to be rendered is Defence Research and Development Canada - Valcartier (DRDC - Valcartier).

(d) Period of the Contract:

The period of the Contract is from date of Contract to 20 months after date of Contract.

(e) Key information

i. Defence Research and Development Canada - Valcartier has determined that any intellectual property rights arising from the performance of the Work under the resulting contract will belong to Canada.

ii. Bidders must provide a list of names, or other related information as needed, pursuant to section 01 of Standard Instructions 2003.

iii. For services requirements, Bidders must provide the required information, as detailed in article 3 of Part 2 of the bid solicitation, to comply with Treasury Board policies and directives on contracts awarded to Former Public Servant.

iv. The requirement is limited to Canadian services.

v. The requirement is subject to the Agreement on Internal Trade (AIT).

vi. There is a security requirement associated with this requirement. For additional information, consult Part 6 - Security, Financial and Other Requirements, and Part 7 - Resulting Contract Clauses. Bidders should consult the "Security Requirements for PWGSC Bid Solicitations - Instructions for Bidders" (<http://www.tpsgc-pwgsc.gc.ca/app-acq/lc-pl/lc-pl-eng.html#a31>) document on the Departmental Standard Procurement Documents website.

vii. This procurement is subject to the Controlled Goods Program.

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viii. The Contractor must complete and submit a **Foreign Ownership, Control and Influence (FOCI)** Questionnaire and associated documentation identified in the FOCI Guidelines for Organizations prior to contract award.

3. Debriefings

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 (2014-09-25) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

1.1 SACC Manual Clauses

A7035T (2007-05-25), List of Proposed Subcontractors

2. Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date and time indicated on **page 1** of the bid solicitation at the following place:

Public Works and Government Services Canada
1550, d'Estimauville Avenue
Quebec (QC), G1J 0C

Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.

3. Former Public Servant - Competitive – Bid *(to be completed by the Bidder and should be provided with Certifications)*

Contracts awarded to former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny, and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts awarded to FPS, bidders must provide the information required below before contract award. If the answer to the questions and, as applicable the information required have 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 comply with Canada's request and meet the requirement within the prescribed time frame will render the bid non-responsive.

Definitions

For the purposes of this clause, "*former public servant*" is any former member of a department as defined in the [Financial Administration Act](#), R.S., 1985, c. F-11, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

- a. an individual;

- b. an individual who has incorporated;
- c. a partnership made of former public servants; or
- d. a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

"lump sum payment period" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.

"pension" means a pension or annual allowance paid under the [Public Service Superannuation Act](#) (PSSA), R.S., 1985, c.P-36, and any increases paid pursuant to the [Supplementary Retirement Benefits Act](#), R.S., 1985, c.S-24 as it affects the PSSA. It does not include pensions payable pursuant to the [Canadian Forces Superannuation Act](#), R.S., 1985, c.C-17, the [Defence Services Pension Continuation Act](#), 1970, c.D-3, the [Royal Canadian Mounted Police Pension Continuation Act](#), 1970, c.R-10, and the [Royal Canadian Mounted Police Superannuation Act](#), R.S., 1985, c.R-11, the [Members of Parliament Retiring Allowances Act](#), R.S., 1985, c.M-5, and that portion of pension payable to the [Canada Pension Plan Act](#), R.S., 1985, c.C-8.

Former Public Servant in Receipt of a Pension

As per the above definitions, is the Bidder a FPS in receipt of a pension?

Yes ()

No ()

If so, the Bidder must provide the following information, for all FPS in receipt of a pension, as applicable:

- a. name of former public servant;
- b. date of termination of employment or retirement from the Public Service.

By providing this information, Bidders agree that the successful Bidder's status, with respect to being a former public servant in receipt of a pension, will be reported on departmental websites as part of the published proactive disclosure reports in accordance with [Contracting Policy Notice: 2012-2](#) and the [Guidelines on the Proactive Disclosure of Contracts](#).

Work Force Adjustment Directive

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of the Work Force Adjustment Directive?

Yes ()

No ()

If so, the Bidder must provide the following information:

- a. name of former public servant;
- b. conditions of the lump sum payment incentive;
- c. date of termination of employment;
- d. amount of lump sum payment;
- e. rate of pay on which lump sum payment is based;
- f. period of lump sum payment including start date, end date and number of weeks;
- g. number and amount (professional fees) of other contracts subject to the restrictions of a work force adjustment program.

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For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including Applicable Taxes

4. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority preferably by e-mail at the following address: josee.roy@tpsgc-pwgsc.gc.ca, no later than **eight (8) 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(s) is eliminated, and the enquiry can be answered to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

5. Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force **in Quebec**.

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.

6. Basis for Canada's Ownership of Intellectual Property

Canada has determined that any intellectual property rights arising from the performance of the Work under the resulting contract will belong to Canada on the following grounds:

The Treasury Board, granted Defence Research and Development Canada exemption from the Treasury Board Policy on "Title to Intellectual Property Arising Under Crown Procurement Contracts"

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 (5 hard copies and 1 soft copie on CD or DVD)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft 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; and
- (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 should:

- (1) use paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- (2) use an environmentally-preferable format including black and white printing instead of colour printing, print double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

1.1 Section I: Technical Bid

- (a) 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 and describe their approach in a thorough, concise and clear manner for carrying out the work.

The technical bid should clearly address and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

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(b) The technical bid consists of the following:

- (i) All the information required to demonstrate its conformity with the Mandatory and Point Rated Technical Criteria described in Attachment 2 - Mandatory and Point Rated Technical Criteria.

1.2 Section II : Financial Bid

1.2.1 Bidders must submit their financial bid in accordance with the following:

- a. The information must be provided in accordance with the Financial Bid Presentation Sheet in Attachment 1
- b. Prices must be in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

1.3 Section III: Certifications

Bidders must submit the certifications required under Part 5.

1.3.1 Additional information precedent to Contract Award

- a) Bidders must provide a list of names, or other related information as needed, pursuant to section 01 of Standard Instructions 2003.
- b) For services requirements, Bidders must provide the required information, as detailed in article 3 of Part 2 of the bid solicitation, to comply with Treasury Board policies and directives on contracts awarded to Former Public Servant.
- c) Canada requests that bidders provide the following information:

Administrative representative :

Name : _____

Telephone : _____

Facsimile : _____

Email : _____

Technical representative :

Name : _____

Telephone : _____

Facsimile : _____

Email : _____

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

Except where expressly provided otherwise, the experience described in the bid must be the experience of the Bidder itself (which includes the experience of any companies that formed the Bidder by way of a merger but does not include any experience acquired through a purchase of assets or an assignment of contract). The experience of the Bidder's affiliates (i.e. parent, subsidiary or sister corporations), subcontractors, or suppliers will not be considered.

1.1.1 Mandatory Technical Criteria

Refer to **Attachment 2**, Mandatory and Point Rated Technical Criteria.

1.1.2 Point Rated Technical Criteria

Refer to **Attachment 2**, Mandatory and Point Rated Technical Criteria.

1.2 Financial Evaluation

1.2.1 Mandatory Financial Criteria

Bidders must submit their financial bid in accordance with **1.2 Section II: Financial Bid** of the *Part 3 - Bid preparation instructions*.

1.2.2 Evaluation of Price

The price of the bid will be evaluated in Canadian dollars, applicable taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

The price of the bid is the sum of the firm part and the part that includes the Optional services.

Basis of Selection - Highest Combined Rating of Technical Merit and Price

1. To be declared responsive, a bid must:
 - (a) comply with all the requirements of the bid solicitation;
 - (b) meet all mandatory criteria; and
 - (c) obtain the required minimum points specified for the technical evaluation, and
 - (d) obtain the required minimum of 69 points overall for the technical evaluation criteria which are subject to point rating.

The rating is performed on a scale of 139 points.

2. Bids not meeting "(a) or (b) or (c) or (d)" will be declared non-responsive.

3. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 70% for the technical merit and 30 % for the price.
4. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by 70.
5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated average rate and multiplied by 30.
6. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.
7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.

7.1 Basis of Selection - Highest Combined Rating Technical Merit (70%) and Price (30%)

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 70/30 ratio of technical merit and price, respectively. The total available point equals 139 and the lowest evaluated price is 83.11\$/hr.

	Bidder		
	Bidder 1	Bidder 2	Bidder 3
Overall Technical Score	130/139	115/139	120/139
Price of the Bid	5000\$	2500\$	2000\$
	Calculations		
Technical Merit Score	$130/139 \times 70 = 65.47$	$115/139 \times 70 = 57.91$	$120/139 \times 70 = 60.43$
Pricing Score	$2000 / 5000 \times 30 = 12$	$2000 / 2500 \times 30 = 24$	$2000 / 2000 \times 30 = 30$
Combined Rating	77.47	81.91	90.43
Overall Rating	3 rd	2 nd	1 st

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and associated information to be awarded a contract.

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default in carrying out any of its obligations under the Contract, if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority may render the bid non-responsive or constitute a default under the Contract.

1. Certifications Required Precedent to Contract Award

1.1 Integrity Provisions - Associated Information

By submitting a bid, the Bidder certifies that the Bidder and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Bid of Standard Instructions 2003. The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

1.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from Employment and Social Development Canada (ESDC) - Labour's website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

2. Additional Certifications Required Precedent to Contract Award

2.1 Canadian Content Certification

This procurement is limited to Canadian services.

The Bidder certifies that:

() the service(s) offered is(are) a Canadian service as defined in paragraph 2 of clause A3050T.

2.1.1 SACC Manual clause A3050T (2010-01-11), Canadian Content Definition

2.2 Status and Availability of Resources

The Bidder certifies that, should it be awarded a contract as a result of the bid solicitation, every individual proposed in its bid will be available to perform the Work as required by Canada's

representatives and at the time specified in the bid solicitation or agreed to with Canada's representatives. If for reasons beyond its control, the Bidder is unable to provide the services of an individual named in its bid, the Bidder may propose a substitute with similar qualifications and experience. The Bidder must advise the Contracting Authority of the reason for the substitution and provide the name, qualifications and experience of the proposed replacement. For the purposes of this clause, only the following reasons will be considered as beyond the control of the Bidder: death, sickness, maternity and parental leave, retirement, resignation, dismissal for cause or termination of an agreement for default.

If the Bidder has proposed any individual who is not an employee of the Bidder, the Bidder certifies that it has the permission from that individual to propose his/her services in relation to the Work to be performed and to submit his/her résumé to Canada. The Bidder must, upon request from the Contracting Authority, provide a written confirmation, signed by the individual, of the permission given to the Bidder and of his/her availability. Failure to comply with the request may result in the bid being declared non-responsive.

2.3 Education and Experience

The Bidder certifies that all the information provided in the résumés and supporting material submitted with its bid, particularly the information pertaining to education, achievements, experience and work history, has been verified by the Bidder to be true and accurate. Furthermore, the Bidder warrants that every individual proposed by the Bidder for the requirement is capable of performing the Work described in the resulting contract.

2.4 Language Capability

The Bidder certifies that it has the language capability required to perform the Work, as stipulated in the Statement of Work.

PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

1. Security Requirement

1. At the date of bid closing, the following conditions must be met:

- (a) the Bidder must hold a valid organization security clearance as indicated in Part 7 - Resulting Contract Clauses;
- (b) the Bidder's proposed individuals requiring access to classified or protected information, assets or sensitive work site(s) must meet the security requirement as indicated in Part 7 - Resulting Contract Clauses;
- (c) the Bidder must provide the name of all individuals who will require access to classified or protected information, assets or sensitive work sites.

2. Bidders are reminded to obtain the required security clearance promptly. Any delay in the award of a contract to allow the successful bidder to obtain the required clearance will be at the entire discretion of the Contracting Authority.

3. For additional information on security requirements, bidders should consult the "Security Requirements for PWGSC Bid Solicitations - Instructions for Bidders" (<http://www.tpsgc-pwgsc.gc.ca/app-acq/lc-pl/lc-pl-eng.html#a31>) document on the Departmental Standard Procurement Documents website.

2. Financial Capability

SACC Manual clause A9033T (2012-07-16), Financial Capability

3. Controlled Goods Requirement

SACC Manual clause A9130T (2014-06-26), Controlled Goods Program - Bid

PART 7 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

1. Statement of Work

The Contractor must perform the Work in accordance with the Statement of Work at Annex A and the Contractor's technical bid entitled _____, dated _____. **(to be completed by Canada at contract award).**

1.1 Disclosure Certification

On completion of the Work, the Contractor must submit to the Technical Authority and to the Contracting Authority a copy of the Contractor Disclosure of Foreground Information attached as **Annex C** stating that all applicable disclosures were submitted.

2. 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.

2.1 General Conditions

2040 (2014-09-25), General Conditions - Research & Development, apply to and form part of the Contract.

2.2 Supplemental General Conditions

The following supplemental general conditions apply to and form part of the Contract:

4002 (2010-08-16), Software Development or Modification Services

2.3 SACC Manual Clauses

K3410C (2008-12-12), Canada to Own Intellectual Property Rights in Foreground Information

K3305C (2008-05-12), License to Intellectual Property Rights in Foreground Information

3. Security Requirement

3.1 The following security requirement (SRCL and related clauses) applies and form part of the Contract.

**SECURITY REQUIREMENT FOR CANADIAN SUPPLIER:
PWGSC FILE # W7701-155935**

1. The Contractor must, at all times during the performance of the Contract, hold a valid **Facility Security Clearance at the level of SECRET**, issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).
2. This contract includes access to **controlled goods**. Prior to access, the contractor must be registered in the Controlled Goods Program of Public Works and Government Services Canada.
3. The Contractor personnel requiring access to **CANADA PROTECTED** information, assets or sensitive work site(s) **must EACH hold a valid personnel security screening at the level of SECRET**, granted or approved by CISD/PWGSC.
4. The Contractor personnel requiring access to **CANADA CLASSIFIED** information, assets or sensitive work site(s) **must be citizens of Canada, US, UK, Australia, or permanent residents of Canada and must EACH hold a valid personnel security screening at the level of SECRET**, granted or approved by CISD/PWGSC.
5. The Contractor personnel requiring access to **FOREIGN PROTECTED** information, assets or sensitive work site(s) **must EACH hold a valid personnel security screening at the level of SECRET**, granted or approved by CISD/PWGSC.
6. The Contractor personnel requiring access to **FOREIGN CLASSIFIED** information, assets or sensitive work site(s) **must be citizens of Canada, US, UK, Australia, or permanent residents of Canada and must EACH hold a valid personnel security screening at the level of SECRET**, granted or approved by CISD/PWGSC.
7. The Contractor/Offoror MUST NOT remove any CLASSIFIED information from the identified work site(s), and the Contractor/Offoror must ensure that its personnel are made aware of and comply with this restriction.
8. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.
9. The Contractor must complete and submit a **Foreign Ownership, Control and Influence (FOCI)** Questionnaire and associated documentation identified in the FOCI Guidelines for Organizations prior to contract award to identify whether a third party individual, firm or government can gain unauthorized access to CLASSIFIED FOREIGN information/assets. Public Works and Government Services Canada (PWGSC) will determine if the company is "*Not Under FOCI*" or "*Under FOCI*". When an organization is determined to be *Under FOCI*, PWGSC will ascertain if mitigation measures exist or must be put in place by the company so it can be deemed "*Not Under FOCI through Mitigation*".
10. The contractor should at all times during the performance of the contract possess a letter from PWGSC identifying the results of the FOCI assessment with a FOCI designation of *Not Under FOCI* or *Not Under FOCI through Mitigation*.
11. All changes to Questionnaire and associated FOCI evaluation factors must immediately be submitted to the Industrial Security Sector (ISS) to determine if the changes impact the FOCI designation.
12. The Contractor must comply with the provisions of the:
 - (a) Security Requirements Check List and security guide (if applicable), attached at Annex C;
 - (b) *Industrial Security Manual* (Latest Edition).

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NOTE: There are **multiple levels of release restrictions** associated with this file. In this instance, a Security Guide should be added to the SRCL clarifying these restrictions. The Security Guide is normally generated by the organization's project authority and/or security authority.

4. Term of Contract

4.1 Period of Contract

The period of the Contract is from date of Contract to 20 months after date of Contract.

The Work is to be performed according to 3.2 "Deliverables and dates" . in Annex A – Statement of Work.

4.2 Optional Services

The Contractor grants to Canada the irrevocable option to acquire the described under tasks 4,5,10,12 and 14 in Annex A – Statement of Work 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:

Josée Roy
Public Works and Government Services Canada
601-1550 D'Estimauville
Québec, QC.
G1J 0C7

Telephone: 418-649-2932
Facsimile: 418-648-2209
E-mail address: josee.roy@tpsgc-pwgsc.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 Technical Authority (to be completed by Canada at contract award)

The Technical Authority for the Contract is:

Name : _____

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Title : _____
Organization : _____
Address : _____

Telephone: _____
Facsimile: _____
E-mail address: _____

The Technical Authority 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 Contractor's Representative (to be completed by Canada at contract award)

Administrative representative :

Name : _____
Telephone : _____
Facsimile : _____
Email : _____

Technical representative :

Name : _____
Telephone : _____
Facsimile : _____
Email : _____

6. Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a [Public Service Superannuation Act](#) (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with [Contracting Policy Notice: 2012-2](#) of the Treasury Board Secretariat of Canada.

7. Payment

7.1 Basis of Payment

The Contractor will be reimbursed for the costs reasonably and properly incurred in the performance of the Work, in accordance with the Basis of Payment in Annex B, to a ceiling price of \$_____ (**the amount will be inserted at contract award**) . Customs duties are included and Applicable Taxes are extra.

The ceiling price is subject to downward adjustment so as not to exceed the actual costs reasonably incurred in the performance of the Work and computed in accordance with the Basis of Payment.

Ceiling price: *A ceiling price is the maximum amount of money that may be paid to a contractor. By establishing a ceiling price, the contractor must satisfactorily fulfill all of its contractual obligations relative to the work to which this basis of payment applies without additional payment whether or not the actual costs incurred exceed the ceiling price.*

7.2 Financial Limitation

7.2.1 Limitation of Price

SACC Manual Clause C6000C (2011-05-16), Limitation of Price

7.3 Method of Payment

7.3.1 Progress Payments

1. Canada will make progress payments in accordance with the payment provisions of the Contract, no more than once a month, for cost incurred in the performance of the Work up to 90 percent of the amount claimed and approved by Canada if:

- (a) an accurate and complete claim for payment using form PWGSC-TPSGC 1111(<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/1111.pdf>), Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- (b) the amount claimed is in accordance with the Basis of payment;
- (c) the total amount for all progress payments paid by Canada does not exceed 90 percent of the total amount to be paid under the Contract;
- (d) all certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives.

2. The balance of the amount payable will be paid in accordance with the payment provisions of the Contract upon completion and delivery of all work required under the Contract if the Work has been accepted by Canada and a final claim for the payment is submitted.

3. Progress payments are interim payments only. Canada may conduct a government audit and interim time and cost verifications and reserves the right to make adjustments to the Contract from time to time during the performance of the Work. Any overpayment resulting from progress payments or otherwise must be refunded promptly to Canada.

7.4 SACC Manual Clauses

A9117C (2007-11-30), T1204 - Direct Request by Customer Department

C0305C (2014-06-26), Cost Submission - Limitation of Expenditure or Ceiling Price

7.5 Discretionary Audit

SACC Manual Clause C0705C (2010-01-11), Discretionary Audit

8. Invoicing Instructions- Progress Claim

1. The Contractor must submit a claim for progress payment using form PWGSC-TPSGC 1111 (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/1111.pdf>), Claim for Progress Payment.

Each claim must show:

- (a) all information required on form PWGSC-TPSGC 1111;

- (b) all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;

Each claim must be supported by:

- (a) a copy of time sheets to support the time claimed;
 - (b) a copy of the invoices, receipts, vouchers for all direct expenses, and all travel and living expenses;
 - (c) a copy of the monthly progress report.
2. Applicable Taxes must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no Applicable Taxes payable as it was claimed and payable under the previous claims for progress payments.
3. The Contractor must prepare and certify one original and two (2) copies of the claim on form PWGSC-TPSGC 1111, and forward it to the Contracting Authority for certification.

ATTN: _____ **(to be completed at contract award)**
Public Works and Government Services Canada
601-1550 D'Estimauville
Québec, QC.
G1J 0C7

The Contracting Authority will then forward the original and two (2) copies of the claim to the Technical Authority for appropriate certification after inspection and acceptance of the Work takes place, and onward submission to the Payment Office for the remaining certification and payment.

4. The Contractor must not submit claims until all work identified in the claim is completed.

9. Certifications

9.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing associated information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the associated information, or if 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.

10. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____ **(to be inserted at contract award)**.

11. 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 supplemental general conditions 4002 (2010-08-16), Software Development or Modification Services
- (c) the general conditions 2040 (2014-09-25), General Conditions - Research & Development
- (d) Annex A, Statement of Work
- (e) Annex B, Basis of Payment;
- (f) Annex C, Contractor Disclosure of Foreground Information
- (g) Annex D, Security Requirements Check List
- (h) the Contractor's bid dated _____ **(to be completed at contract award)**.

12. Defence Contract

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

13. Foreign Nationals (Canadian Contractor)

SACC Manual clause A2000C (2006-06-16), Foreign Nationals (Canadian Contractor)

14. Insurance

SACC Manual clause G1005C (2008-05-12), Insurance

15. Controlled Goods Program

15.1 SACC Manual clause A9131C (2014-06-26), Controlled Goods Program - Contract

15.2 SACC Manual clause B4060C (2011-05-16), Controlled Goods

16. Progress Reports

1. The Contractor must submit monthly reports, in electronic format, on the progress of the Work, to both the Technical Authority and the Contracting Authority.

2. The progress report must contain two parts:

(a) PART 1: The Contractor must answer the following three questions:

(i) Is the project on schedule?

(ii) Is the project within budget?

(iii) Is the project free of any areas of concern in which the assistance or guidance of Canada may be required?

Each negative response must be supported with an explanation.

(b) PART 2: A narrative report, brief, yet sufficiently detailed to enable the Technical Authority to evaluate the progress of the Work, containing as a minimum:

(i) A description of the progress of each task and of the Work as a whole during the period of the report. Sufficient sketches, diagrams, photographs, etc., must be included, if necessary, to describe the progress accomplished.

(ii) An explanation of any variation from the work plan.

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- (iii) A description of trips or conferences connected with the Contract during the period of the report.
- (iv) A description of any major equipment purchased or constructed during the period of the report.

17. Site Regulations

The Contractor must comply with all standing orders or other regulations, instructions and directives in force on the site where the Work is performed.

18. Identification Badge

SACC Manual clause **A9065C** (2006-06-16), Identification Badge

ATTACHMENT 1

FINANCIAL BID PRESENTATION SHEET

A- FOR FIRM TASKS OF THE CONTRACT (1-2-3-6-7-8-9-11-13)

1. **LABOUR** : Firm all-inclusive hourly rates (Applicable Taxes extra, including profit and overhead) as follows : **Est.: \$ _____**

Note to bidders:

- The bidder must enter an hourly rate (including profit and overhead) for each proposed resource.
- The bidder must enter an estimated total number of hours for each proposed resource.

Labour Categories	Firm hourly rates for the following period:				
	Award to March 31, 2015	Number of estimated hours	April 1st 2015 to March 31st 2016	Number of estimated hours	Total estimated for the resource
a) Project Manager Name :	____ \$/hr	____ hrs	____ \$/hr	____ hrs	____ \$
b) Scientific Category 1 (engineer); Name : ____ \$/hr Name : ____ \$/hr Name : ____ \$/hr Name : ____ \$/hr	____ \$/hr ____ \$/hr ____ \$/hr ____ \$/hr	____ hrs ____ hrs ____ hrs ____ hrs	____ \$/hr ____ \$/hr ____ \$/hr ____ \$/hr	____ hrs ____ hrs ____ hrs ____ hrs	____ \$ ____ \$ ____ \$ ____ \$
c) Scientific Category 2 (programmer/analyst) Name : ____ \$/hr Name : ____ \$/hr	____ \$/hr ____ \$/hr	____ hrs ____ hrs	____ \$/hr ____ \$/hr	____ hrs ____ hrs	____ \$ ____ \$

2. **EQUIPMENT / MATERIALS AND SUPPLIES:** **Est.: \$ _____**
Specify what categories of equipment, materials and supplies.

3. **TRAVEL & LIVING:** **Est.: \$ _____**

The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the Treasury Board Travel Directive (<http://www.tbs->

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sct.gc.ca/pubs_pol/hrpubs/TBM_113/td-dv_e.asp), and with the other provisions of the directive referring to "travellers", rather than those referring to "employees" are applicable.

All travel must have prior authorization of the Technical Authority. All payments are subject to government audit.

4. SUBCONTRACTS (except the resources proposed in section 1. Labor):

Est.: \$ _____

**Ceiling Price: \$ _____
(Applicable Taxes extra)**

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 cost does not exceed the aforementioned Ceiling Price.

B- FOR OPTIONAL SERVICES (4-5-10-12-14)

1. **LABOUR** : Firm all-inclusive hourly rates (Applicable Taxes extra, including profit and overhead) as follows : **(see column 2 of the table below)**

Note to bidders:

- a. The bidder must enter an hourly rate (including profit and overhead) for each proposed resource.

Labour Categories	Firm hourly rates for the following period:	
	Award to March 31, 2015	April 1st 2015 to March 31st 2016
a) Project Manager Name :	____ \$/hr	____ \$/hr
b) Scientific Category 1 (engineer); Name :	____ \$/hr	____ \$/hr
Name :	____ \$/hr	____ \$/hr
Name :	____ \$/hr	____ \$/hr
Name :	____ \$/hr	____ \$/hr
Name :	____ \$/hr	____ \$/hr

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c) Scientific Category 2 (programmer/analyst)		
	_____ \$/hr	_____ \$/hr
	Name : _____ \$/hr	_____ \$/hr
Name :		

2. EQUIPMENT / MATERIALS AND SUPPLIES: (see column 3 of the table below)

3. TRAVEL & LIVING: (see column 4 of the table below)

The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the Treasury Board Travel Directive (http://www.tbs-sct.gc.ca/pubs_pol/hrpubs/TBM_113/td-dv_e.asp), and with the other provisions of the directive referring to "travellers", rather than those referring to "employees" are applicable.

All travel must have prior authorization of the Technical Authority. All payments are subject to government audit.

4. SUBCONTRACTS (except the resources proposed in section 1. Labor): (see column 5 of the table below)

TASKS	TOTAL ESTIMATED COST - LABOUR	TOTAL ESTIMATED COST - EQUIPMENT / MATERIALS AND SUPPLIES	TOTAL ESTIMATED COST - TRAVEL & LIVING	TOTAL ESTIMATED COST - SUBCONTRACTS	Ceiling Price (Applicable Taxes extra)
4	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
5	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
10	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
12	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
14	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____

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 cost does not exceed the aforementioned Ceiling Price.

ATTACHMENT 2

MANDATORY AND POINT RATED TECHNICAL CRITERIA

1. Mandatory technical criteria

The Bidder must propose resources in the following technical/scientific categories:

1. One resource in Management Category.
 - a. One project manager must be assigned to the project. The project manager can be one of the scientific resources proposed in Scientific Category 1 or 2.
2. A minimum of four resources in Scientific Category 1 (engineer);
 - a. Additional resources can be proposed
 - b. All resources must have as a minimum a Bachelors in Engineering (electrical, mechanical, physics, or aerospace)
3. A minimum of two resources in Scientific Category 2 (programmer/analyst);
 - a. Additional resources can be proposed.

The same resources can be proposed for more than one category.

2. Point rated technical criteria

1.	TECHNICAL PROPOSAL	25	12
2.	MANAGEMENT PROPOSAL	20	10
3.	SCIENTIFIC CATEGORY 1 (ENGINEER)	44	25
4.	SCIENTIFIC CATEGORY 2 (PROGRAMMER/ANALYST)	35	17
5.	BIDDER'S EXPERIENCE	15	5
TOTAL		139	69

CRITERIA		EVALUATION SCALE	MAX SCORE	MIN SCORE
1.	TECHNICAL PROPOSAL		25	12
1.1	Understanding of objectives and required technical work. The bidder should clearly demonstrate that he understands the objectives and specificities of the project.	Understanding of objectives: 10 pts See PWGSC Generic evaluation board	10	6

CRITERIA		EVALUATION SCALE	MAX SCORE	MIN SCORE
1.2	Technical approach and methodology. The bidder should clearly present the technical approach and the methodology that he proposes. The technical approach and the methodology that are proposed both need to be realistic, relevant and directly tied to the required technical work.	Technical approach and methodology : 15 pts See PWGSC Generic evaluation board	15	S/O
2.	MANAGEMENT PROPOSAL		20	10
2.1	Project control (coordination, interfacing, supervision). The bidder should demonstrate the use of project control techniques/tools (for example Microsoft project or other) and supports with examples of project performed with such project control techniques/tool.	2 pts: Two examples of two distinct projects illustrating application of project control techniques/tools 1 pt: one example illustrating application of project control techniques/tools 0 pt: Other situation	2	S/O
2.2	2.2 - Control system for resources. The bidder should demonstrate the application of an effective resource management system and supports with at least one example	2 pts: Acceptable (provides an example illustrating application of resource management tool) 1 pt: Low (lack of information) (provides an example illustrating application of resource management tool) 0 pt: Other situation	2	S/O

CRITERIA		EVALUATION SCALE	MAX SCORE	MIN SCORE
2.3	<p>Management experience of project manager.</p> <p>The Bidder should, demonstrate the experience of the Project Manager. His/her curriculum vitae should be included.</p> <p>a. The Project Manager has experience in technical project management (technical, budget, and/or personnel) – can include experience gained over many projects</p> <p>b. The project manager has supervised defence related R&D projects of \$100k or more</p>	<p>a) Project Manager experience:</p> <p>4 pts: 24 months or more experience in technical project management (technical, budget, personnel) 2 pts: 12 months to less than 24 months experience in technical project management (technical, budget, personnel) 0 pt: Less than 12 months experience in technical project management (technical, budget, personnel)</p> <p>b) Project manager defence R&D project supervision:</p> <p>2 pts: Supervised two or more R&D projects 1 pt: Supervised one R&D project 0 pt: Other situation</p>	6	S/O

CRITERIA		EVALUATION SCALE	MAX SCORE	MIN SCORE
2.4	<p>2.4 Assignment of personnel.</p> <p>a. The bidder should clearly present how it foresees to attribute the resources to each of the tasks as well as the precise role of each of the resources in each activity.</p> <p>Clear presentation of resource and role for each task.</p>	<p>Assignment of personnel: 10 pts See PWGSC Generic evaluation board</p>	10	S/O
3.	SCIENTIFIC CATEGORY 1 (ENGINEER)		44	25
	<p>For each of the sub-criterion, the bidder must indicate the name of the resource(s) proposed and the curriculum vitae should be included with the proposal.</p> <p><i>Note for the experience criteria :</i> <i>For all the criteria pertaining to the experience of the proposed resources, points will be given to experience sufficiently demonstrated. The Bidder should therefore provide sufficient information to allow for a complete evaluation of each stated experience. If the information provided is insufficient to confirm the relevance of the experience with the requirement of a criterion, zero points will be given to the Bidder for that specific experience criterion.</i></p> <p><i>Minimum information required:</i></p> <ul style="list-style-type: none"> - Title of the project or experience; - Description of the project or experience; - Name of client - Exact dates of the project or the experience (month and year of 			

CRITERIA		EVALUATION SCALE	MAX SCORE	MIN SCORE
	<p>start/end);</p> <ul style="list-style-type: none"> - Exact dates of the involvement of the resource (month and year of start/end); - Tasks conducted by the resource during the project or the experience. <p><u>Note that concurrent activities pertaining to a single experience will be considered only once. Exception: 3.2.4 can concur with work performed in Sections 3.2.1 through 3.2.3.</u></p>			
3.1	<p>Academic training (domain and level of diploma) of each of the proposed resources.</p> <p><i>Total points: average score of all resources proposed in this category (engineer)</i></p>	<p>10 pts: Doctorate or Master in electrical, mechanical, physics, or aerospace engineering 0 pt : Other situation</p>	10	S/O
3.2	<p>Work experience</p> <p><i>Note: The resources specified may not be necessarily the same for each activity under 'Work experience'</i></p>		34	17
3.2.1	<p>3.2.1 Experience in weapon and weapon component model development, implementation and application in Matlab/Simulink and/or C++ in:</p> <ul style="list-style-type: none"> a) guidance, control and navigation b) airframe (aerodynamic) c) fuzing/warhead d) fire control e) seeker <p><i>Note: The bidder should propose 3 resources for each of the above activities (a to e). The 3 resources specified may not necessarily be the same for each of the above activities (a to e)</i></p> <p><i>Total points: Average score of the 3</i></p>	<p>a) guidance, control and navigation - 4 pts b) airframe (aerodynamic) - 4 pts c) fuzing/warhead- 4 pts d) fire control- 4 pts e) seeker- 4 pts</p> <p>0 pt for less than 1/2 month 2 pts for more than 1/2 month and less than or equal to 1 month 3 pts for more than 1 month and less than or equal to 2 months</p>	20	10

CRITERIA		EVALUATION SCALE	MAX SCORE	MIN SCORE
	<i>proposed resources in each of the above activities (a to e).(engineer)</i>	4 pts for more than 2 months.		
3.2.2	<p>Experience in weapon performance simulation and analysis (Monte-Carlo analysis, validation and verification analysis techniques, or importance sampling) commonly used in option analysis and trade off studies.</p> <p>a) option analysis b) trade-off studies analysis</p> <p><i>Note: The bidder should propose 3 resources for each of the above activities (a and b). The 3 resources specified may not necessarily be the same for each of the above activities (a and b) .</i></p> <p><i>Total points: Average score of the 3 proposed resources in each of the above activities (a and b).(engineer)</i></p>	<p>a)option analysis – 5 pts b) trade-off studies analysis – 5pts</p> <p>0 pts for less than or equal to 3 months 1 pts for more than 3 months and less than or equal to 6 months , 3 pts for more than 6 months and less than or equal to 12 months , 5 pts for more than 12 months.</p>	10	3
3.2.3	<p>Experience in performing open literature searches on weapon systems</p> <p><i>Note: The bidder should proposed 2 resources for this activity.</i></p> <p><i>Total points: Average score of the 2 proposed resources. (engineer)</i></p>	<p>0 pts for less than 2 weeks , 1 pts for more than 2 weeks and less than or equal to 1 month 2 pts for more than 1 month and less than or equal to 2 months , 4 pts for more than 2 months.</p>	4	S/O

CRITERIA		EVALUATION SCALE	MAX SCORE	MIN SCORE
4.	SCIENTIFIC CATEGORY 2 (PROGRAMMER/ANALYST)		35	17
	<p>For each of the sub-criterion, the bidder must indicate the name of the resource(s) proposed and the curriculum vitae should be included with the proposal.</p> <p><i>Note for the experience criteria :</i></p> <p><i>For all the criteria pertaining to the experience of the proposed resources, points will be given to experiences sufficiently demonstrated.</i></p> <p><i>The Bidder should therefore provide sufficient information to allow for a complete evaluation of each stated experience.</i></p> <p><i>If the information provided is insufficient to confirm the relevance of the experience with the requirement of a criterion, zero points will be given to the Bidder for that specific experience criterion.</i></p> <p><i>Minimum information required:</i></p> <ul style="list-style-type: none"> - Title of the project or experience; - Description of the project or experience; - Name of client - Exact dates of the project or the experience (month and year of start/end); - Exact dates of the involvement of the resource (month and year of start/end); - Tasks conducted by the resource during the project or the experience. <p><u><i>Note that concurrent activities pertaining to a single experience will be considered only once.</i></u></p>			

CRITERIA		EVALUATION SCALE	MAX SCORE	MIN SCORE
4.1	Academic training (domain and level of diploma) of each of the proposed resources. <i>Total points: average score of all resources proposed in this category (programmer / analyst)</i>	10 pts: Doctorate or Master in software or computer engineering 6 pts: Bachelor in software or computer engineering	10	S/O
4.2	Work experience (programmer/analyst)		25	12
4.2.1	Experience in Modeling and Simulation Architectures <i>Total points: average score of all resources proposed in this category (programmer / analyst)</i>	0 pt for less than 3 months , 1 pt for more than or equal to 3 months and less than or equal to 12 months 3 pts for more than 12 months and less than or equal to 24 months , 5 pts for more than 24 months.	5	S/O
4.2.2	Experience in: a) software development (C++ with at least 1 other programming language, i.e., Java and/or Matlab and/or Matlab/Simulink and/or FORTRAN) <i>Total points: average score of all resources proposed in this category (programmer / analyst)</i>	0 pt for less than 3 months , 5 pts for more than or equal to 3 months and less than or equal to 12 months 7 pts for more than 12 months and less than or equal to 24 months , 10 pts for more than 24 months	10	S/O
4.2.3	Experience in development of post-processing tools <i>Total points: average score of all resources proposed in this category (programmer / analyst)</i>	0 pt for less than 3 months , 1 pt for more than or equal to 3 months and less than or equal to 12 months 3 pts for more than 12 months and less than or equal to 24 months , 5 pts for more than 24 months.	5	S/O

CRITERIA		EVALUATION SCALE	MAX SCORE	MIN SCORE
4.2.4	<p>Experience in architecture definition, implementation, and configuration of data farming computer systems.</p> <p><i>Total points: average score of all resources proposed in this category (programmer / analyst)</i></p>	<p>0 pt for less than 1 months ,</p> <p>1 pt of full points for more than or equal to 1 months and less than or equal to 2 months</p> <p>3 pts of full points for more than 2 months and less than or equal to 4 months ,</p> <p>5 pts for more than 4 months.</p>	5	S/O
5.	BIDDER'S EXPERIENCE		15	5
5.1	<p>Relevant experience of the Bidder over the last 5 years.</p> <p><i>The sub criteria will be evaluated according to the following method:</i></p> <p><i>Minimum information required:</i></p> <ul style="list-style-type: none"> - title of the contract; - description of the contract; - name of client - exact dates of the contract (month and year of start/end); <p>Total value (excluding applicable taxes) of contracts conducted specifically on weapon engagement modeling and simulation (implementation and/or development, and/or application)</p>	<p>0 pt: less than \$100,000</p> <p>5 pts: \$100,000 to less than \$250,000</p> <p>10 pts: \$250,000 to less than \$500,000</p> <p>15 pts: more than \$500,000</p>	15	5
TOTAL :			139	69

The generic assessment table

Non-responsive	Extremely weak	Very weak	Weak	Acceptable	Average	Above average	Exceptional
0 points	1-2 points	3-4 points	5 points	6 points	7-8 points	9 points	10 points
Did not submit information which could be evaluated	Does not meet requirements	Generally does not meet requirements	Lack of details	Just meets requirements	Meets requirements	Exceeds requirements	Far exceeds requirements

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W7701-155935/A
Client Ref. No. - N° de réf. du client
W7701-155935

Amd. No. - N° de la modif.

File No. - N° du dossier
QCL-4-37151

Buyer ID - Id de l'acheteur
qcl028
CCC No./N° CCC - FMS No./N° VME

	Weaknesses cannot be corrected	Generally doubtful that weaknesses can be corrected	Weaknesses can be corrected	Weaknesses can be easily corrected	No significant weaknesses	No apparent weaknesses	No weaknesses
	Unacceptable	Extremely weak; insufficient to meet performance requirements	Little capability to meet performance requirements	Minimum acceptability; should meet minimum performance requirements	Average acceptability; should be adequate for effective results	Superior capability; should ensure effective results	Exceptional capability; should ensure extremely effective results

ANNEX A

STATEMENT OF WORK

1. GENERAL

1.1 Title:

Modeling and Simulation of Nominal and Degraded Guided Bomb

1.2 Objective

The Contractor will provide DRDC Valcartier, Weapons Systems Section with specialized technical support in the area of modelling and simulation (M&S) of air weapons. The work to be performed will involve literature reviews, analytical developments, numerical modelling, simulations experimentations, data analysis, verification and validation (V&V), and subsystem design, as well as single-process simulation and multi-processor distributed simulations.

1.3 Background

DRDC Valcartier, Weapons Systems Section, plans and executes applied R&D programs and direct support to CAF projects in the area of capability development and validation of air weapon systems.

1.4 Acronyms

CAF	Canadian Armed Forces
CAP D&V	Capability Development and Validation
CDE	Collateral Damage Estimation
CEP	Circular Error Probable
DE	Degraded Environment
DND	Department of National Defence
DRDC	Defence R&D Canada
EA	Electronic attack
EP	Electronic Protection
FOV	Field-of-View
GBU	Guided Bomb Unit
GGM	Generic Guided Munition
GPS	Global Positioning Position
HOB	Height Of Burst
IAE	Impact-Angle Error
IR	Infra-Red
KA	Kinetic Attack
M&S	Modeling and Simulation
Pk	Probability of kill
PWGSC	Public Works and Government Services Canada
R&D	Research and Development
RCS	Radar Cross Section
RSTT	Range Safety Template Toolkit
SIL	Software-In-the-Loop
SOW	Statement Of Work
SVN	Subversion
VPG	Virtual Proving Groung

V&V Verification and Validation

2. SCOPE OF WORK

Task 1: Component-based and capacity-based M&S of dual mode guided bomb unit (GBU) engagements in nominal conditions

Objective: Investigate component-based and capacity-based M&S of dual mode guided bomb unit (GBU) engagements in nominal conditions

To achieve this, the Contractor must:

- 1.1 Develop and maintain a parametrized dual-mode guidance GBU air-weapon model with baseline configuration provided by DRDC during the course of the Work , in terms of components and subsystems, and based on a set of supplied requirements and capacities,
- 1.2 Develop parametrized engagement models for a single GBU engaging a single static target location and a single GBU engaging a single moving target location, assuming no lethality model is involved, and that there is no degraded environment (DE), no kinetic attack (KA), and no electronic attack (EA),
- 1.3 Perform V&V of M&S for the engagements simulated in ideal conditions (calm meteorological condition, bomb in good working condition, strong GPS signal, and strong laser designation),
- 1.4 Carry out simulations to test the performance of the following subsystems dual-mode guidance, seeker, and fuze, for the entire set of parameter values for a grid of static target locations, whose values have to be identified during the course of the Work
- 1.5 Conduct 10 000 000 Monte-Carlo simulations for various target speeds, and GBU launching conditions, and identify the weapon effectiveness using measures of performance such as CEP, Pk, dispersion analysis, and impact-angle error (IAE),
- 1.6 Report the results obtained, the analysis, the V&V process, and the whole chain of steps employed for the M&S.

Task 2: Study of M&S capacity for a lasing performance assessment in degraded environments (DE)

Objective: Study lasing performance in degraded environments (DE)

To achieve this, the Contractor must:

- 2.1 Perform search on the M&S of degraded environments useful to assess lasing performance,
- 2.2 Determine if expertise and tools exist for the modeling of particles in Earth atmosphere known to impact laser designation. Identify the expertise and tools. Provide a summary of current state-of-the-art.
- 2.3 Determine the possible use with DRDC M&S facilities, tools, models, and simulation environment.
- 2.4 Report results.

Task 3: Simulation analysis of the dual mode GBU model with various fuze modes, and basic lethality model, against personnel and light vehicles

Objective: Perform a simulation analysis of the dual mode GBU model with around three various fuze modes, according to weapon specifications given by DRDC during the course of the Work, and basic lethality model, against personnel and light vehicles

To achieve this, the Contractor must:

- 3.1 Using the GBU model developed, and the basic lethality model available, conduct a simulation analysis of the GBU model against a generic personnel target for the fuze modes, according to weapon specifications given by DRDC during the course of the Work, including height of burst (HOB) mode, using approximately three different fuzing heights, as specified by DRDC during the course of the Work, and pre-programmed impact conditions (impact angle and velocity),
- 3.2 Using the GBU model developed, and the basic lethality model available, conduct a simulation analysis of the GBU model against a light vehicle target, static and traveling at a relatively low speed, for the weapon fuze modes, according to weapon specifications given by DRDC during the course of the Work, including HOB mode, using between 3 and 10 fuzing heights, as specified by DRDC during the course of the Work, and pre-programmed impact conditions (impact angle and velocity),
- 3.3 In the simulation analysis, for all the cases considered, as provided by DRDC during the course of the Work, calculate the radii of effect and the pk, and record the state of the GBU and the target (position, velocity, attitude) at the time the fuze is triggered,
- 3.4 Report the results obtained.

Optional Task 4: Simulation analysis of the dual mode GBU survivability against kinetic attacks (KA)

Objective: Perform a simulation analysis of the dual mode GBU survivability against kinetic attacks (KA)

To achieve this, the Contractor must:

- 4.1 Determine KA scenarios and threats, and GBU protection system and logic from searches through open literature databases and DRDC supplied documentations provided during the course of the Work.
- 4.2 Carry out baseline M&S trade-off studies from the scenarios and threats identified in 4.1. Parametrize the simulations through (1) threat types, velocity, number, and maneuvering characteristics, (2) KA scenarios, (3) target types and physical characteristics, and (4) GBU protection system models, if any.
- 4.3 Perform a minimum of 50 000 Monte-Carlo simulations to assess survivability statistically.
- 4.4 Report the results obtained.

Optional Task 5: Simulation analysis of maximum reachable target speeds

Objective: Perform a simulation analysis of maximum reachable target speeds

To achieve this, the Contractor must:

- 5.1 Set a minimum of 10 000 Monte-Carlo distributed simulations for a moving target engagement with velocity vector parameter values given as follows: orientation between 0 and 180 degrees, and magnitude between 0 and 90 km/h,
- 5.2 Determine through simulation analysis the maximum velocity of the target at which the GBU can impact the target for a CEP value specified by DRDC during the course of the Work, for approximately 100 launching conditions (altitude, speed, heading), and determine the IAE, with the exact set of launching conditions to be indicated by DRDC during the course of the Work
- 5.3 Report the results and the analysis.

Task 6: Component-based and capacity-based M&S of GPS-INS guided bomb unit (GBU) engagements in nominal and component failure conditions

Objective: Perform a Component-based and capacity-based M&S of GPS-INS guided bomb unit (GBU) engagements in nominal and component failure conditions

To achieve this, the Contractor must:

- 6.1 Develop a parametrized GPS-INS guidance GBU air-weapon model with baseline configuration provided by DRDC during the course of the Work, in terms of components and subsystems, and based on a set of supplied requirements, capacities, and failure modes (identified by DRDC during the course of the Work)
- 6.2 Develop parametrized engagement model for a single GBU engaging a single static target location, assuming no lethality model is involved, and that there is no degraded environment (DE), no kinetic attack (KA), no electronic attack (EA), and no failure
- 6.3 Develop parametrized engagement model for a single GBU engaging a single static target location, assuming no lethality model is involved, and that there is no degraded environment (DE), no kinetic attack (KA), no electronic attack (EA), and with GPS-INS, control, GNC and release failures
- 6.4 Perform V&V of M&S for the engagements simulated in ideal conditions (calm meteorological condition, bomb in good working condition, strong GPS signal),
- 6.5 Conduct a total of 10 000 000 Monte-Carlo simulations for DRDC-identified failure modes, to be supplied by DRDC to the Contractor during the course of the Work, for approximately 100 GBU launching conditions (altitude, speed, heading), and identify the weapon danger zone using measures of performance such as CEP, dispersion analysis, and impact-angle error (IAE), kernel density function
- 6.6 Report the results obtained, the analysis, the V&V process, and the whole chain of steps employed for the M&S.

Task 7: C++ MarsGen based M&S guided bomb unit (GBU) engagements in nominal and component failure conditions

Objective: Perform a C++ MarsGen based M&S guided bomb unit (GBU) engagements in nominal and component failure conditions

To achieve this, the Contractor must:

- 7.1 Develop and integrate a parametrized GBU air-weapon model with baseline configuration provided by DRDC in RSTT, in terms of components and subsystems, and based on a set of supplied requirements, capacities, and high level failure modes
- 7.2 Establish a computer farm compatible with RSTT
- 7.3 Conduct 10 000 000 Monte-Carlo simulations involving the implemented failures
- 7.4 Create a RSTT bullpen (database)
- 7.5 Use RSTT front-end to produce Weapon Danger Zone, containment probability contour and risk analysis
- 7.6 Report the results obtained, the analysis, and the whole chain of steps employed for the RSTT implementation.

Task 8: M&S Capability Assessment

Objective: Perform an assessment review of the Weapons Systems Section M&S capability.

To achieve this, the Contractor must:

- 8.1 Review all models (approximately 6) and sub-models (approximately 75 sub-models) within the current weapons library
- 8.2 Divide into the appropriate major categories
 - Guidance, propulsion, aerodynamic, autopilot, vulnerability/lethality, warhead/fuze, sensors, seekers
- 8.3 Provide description of each sub-model
 - General description, data requirements
- 8.4 Provide level of fidelity of each sub-model
 - Low, medium, high
- 8.5 Determine general gaps in sub-models
 - Missing sub-models
 - Insufficient fidelity
 - Missing data
- 8.6 Determine how the DRDC Knowledge Model (Expertise, M&S, laboratories, test facilities, ranges) can support model development and application
- 8.7 Present results in a matrix format (sub-model component vs. fidelity)
- 8.8 Determine general modeling gaps for a specific application, namely, air-to-surface weapons
 - Considering the associated operation and technologies for specific air-to-surface weapons, determine the required sub-models (and gaps) required for modeling and simulation.
 - Do the sub-models meet the required fidelity to answer client questions?
 - Weapon effectiveness against various targets
 - Weapon cost/risk/# of weapons required to engage specific targets
 - Weapon performance degradation due to GPS jamming
 - Weapon performance degradation due to weather
- 8.9 Recommend 'way-ahead', for example, development of sub-models, improvement of sub-models fidelity (sub-model itself or/and data)
- 8.10 Reporting
 - Report content/format as defined below

Task 9: Air-breathing sub-model integration into DRDC Weapons Library

Objective: Integrate existing air-breathing sub-model into DRDC weapons library

To achieve this, the Contractor must:

- 9.1 Review existing DRDC air-breathing sub-model (to be provided by Technical Authority)
- 9.2 Recommend strategy to integrate air-breathing sub-model into DRDC Weapons library
 - Strategy should be consistent with existing library design and architecture
- 9.3 Integrate sub-model into library (with link to corresponding support files)
- 9.4 Develop test case engagement model
 - Use existing GGM engagement model (with solid rocket motor) as template, create new engagement model 'GGM-air-breathing' with required data files for implementation
- 9.5 Reporting
 - Report content/format as defined

Optional Task 10: Extended air-to-ground weapon model development

Objective: Integration of higher fidelity active IR seeker and improved turbojet model to existing Matlab/Simulink air-to-ground missile model. A study will be performed to investigate weapon

performance (Does the target stay within the seeker field-of-view, FOV?) as a function of scenario initial conditions. Baseline scenarios will be created and simulations will be executed to model weapon performance in a benign environment (no GPS jamming) and a degraded environment (GPS jamming) to determine effect on mission success and terminal end-game miss distance.

To achieve this, the Contractor must:

- 10.1 Review existing DRDC Matlab/Simulink air-to-ground missile model (will be provided by scientific authority)
- 10.2 Integrate sub-models
 - Integrate higher fidelity active IR seeker to existing missile model (model already exists in DRDC library - and will be provided by Technical Authority). Current model employs an ideal generic seeker.
 - Integrate improved turbojet model
- 10.3 Develop six baseline scenarios (using open source literature information on missile performance / operation)
 - General scenario
 - Air platform launched air-to-ground missile engaging a ground target
 - Variants
 - Target dynamics (stationary, moving), Radar Cross Section (RCS)
- 10.4 Execute/demonstrate the model for the baseline scenario as a function of:
 - Benign environment, stationary target
 - Degraded environment (GPS jamming, weather), stationary target
 - GPS jamming at weapon launch and maintained throughout weapon flight
 - GPS jamming initiated at various delays (at launch, at two intermediate values during mid-flight and 10 s to intercept) after weapon launch and maintained throughout weapon flight
 - Weather affects seeker performance (maximum range threshold).
- 10.5 Gather simulation results and perform analysis (focus on time of flight, end-game miss distance, probability of engaging target as a function of range and environment)
- 10.6 Report findings
 - Report content/format as defined

Task 11: Tool development, maintenance and update

Objective: Improve weapons systems analysis assessment tools and capability

To achieve this, the Contractor must:

- 11.1 Maintain/configure specialized tools/software on computer platforms for technical analysis
 - Integrate platforms to DRDC Weapon Systems Library for weapon systems analysis
 - Install and configure specialized software – Matlab/Simulink, SIMDIS – Simulation display software (4 platforms)
 - Verify functionally/execution of specific weapon models and sub-models on newly configured workstations (software version change)
 - Execute set test cases (2 total) to test functionality
 - Address bugs and incompatibility issues due to new software version (minor issues)
- 11.2 Configure and test one workstation and one server on a Virtual Private Network (VPN) for point-to-point international communication/ collaboration of weapons systems models and sub-models development (Australia-Canada Modelling & Simulation Collaboration Capability (ACMASCC)).
 - Install, configure and test specific software (mail service, version control system, collaborations tools, M&S tools) and hardware (network switch, web camera)
 - Configure data file storage and backup
 - Test communication protocol – point to point (and debug as required)

- 11.3 Migrate DRDC Weapons Systems Library (weapons models) to Matlab/Simulink 2013b (64 bit) to support modeling and simulation analysis capability
- Develop configuration/installation plan for implementation of Matlab/Simulink on Windows 64-bit and Linux 64-bit (test plan on 1 workstation and 1 server)
 - Recommend way-ahead
 - Verify execution of weapons models (5 models) and specific weapons sub-models (10 sub-models)
 - Minor modification of specific sub-models may be required
 - In some limited cases, recompiling of specific functions (less than 10) may be required to ensure compatibility with the DRDC Weapons Systems Library
 - Recommend way-ahead
 - Configure/integrate and test specific software –SIMDIS and SADM (1 workstation)
- 11.4 Execute scoping study for the eventual transition of GridDIS (distributed simulation application software) from 32-bit to 64-bit (Windows and Linux OS (Operating System))
- Investigate requirements in terms of software and hardware
 - Propose way-ahead and recommendations

Optional Task 12: Sub-model and model documentation process

Objective: Develop a robust process for documenting sub-models and models

To achieve this, the Contractor must:

- 12.1 Review current methods and processes (2 approaches currently used) of documenting sub-models and models
- Review currently used DRDC and VPG Weapons templates (2 approaches currently used)
- 12.2 Propose modifications to the templates as required
- 12.3 Discuss with scientific lead to finalize documentation template
- 12.4 Update specific sub-models and model documentation using new template (approximately 20 – 30 models)
- 12.5 Investigate tools of automatically generating sub-model and model documentation
- 12.6 Demo tool capability (preliminary – scoping) to automatically document sub-model and models
- 12.7 Recommend 'way-ahead'
- 12.8 Reporting
- Report content/format as defined

Task 13: Review of Collateral Damage Estimation software

Objective: Provide a quick review of two given CDE software, execute the sample file and provide assessment. The software allows for collateral damage estimation based on engagement scenario, weapon effect, target, surrounding infrastructure and pattern of life.

To achieve this, the Contractor must:

- 13.1 Review CDE software, available in Joint Automated Deep Operations Coordination System (JADOCS) and iDECIDE
- Document inputs
 - Document parameters
 - Document outputs
- 13.2 Execute sample file and document results

- 13.3 Recommend modifications required to model own scenarios (a maximum of 4 scenarios to be provided by scientific authority)
- 13.4 Report findings
- Report content/format as defined.

Optional Task 14: Review of a Weapons Systems Model software

Objective: Provide a quick review of a given software (HALVAR – Netherlands software), execute the sample file and provide assessment. The software allows for multi-aspect weapon modeling of sensing & tracking, shooter-rifle dynamics, internal ballistic, intermediate ballistics, external ballistics and shot delivery (Probability of hit).

To achieve this, the Contractor must:

- 14.1 Review the current software
- Document inputs
 - Document parameters
 - Document outputs
- 14.2 Execute the sample file and document results
- 14.3 Compare HALVAR with own DRDC small-calibre simulation software (to be provided by scientific authority) in term of:
- Inputs required
 - Parameters modeled
 - Outputs produced
- 14.4 Report findings
- Report content/format as defined.

3. REPORTS AND OTHER DELIVERABLES

3.1 General

The deliverables consist of technical reports, numerical models and simulation results, V&V results and analysis/comparison with requirements.

3.2 Deliverables and dates

Task	Deliverables	Delivery Dates
1	Models and simulation results	5 months after the award
	Technical reports focusing on analysis of results, V&V versus established requirements, documentation on the models and code developed	5 months after the award
2	Report on capacity of modeling and simulating lasing performance in DE.	5 months after the award
3	Models and simulation results,	12 months after the award
	Technical reports focusing on analysis of results, pk analysis for the various fuze modes and target set	14 months after the award
Optional 4	Models and simulation results,	10 months after the option activation

	Technical reports focusing on the identification of KA scenarios, threats and protection systems, the simulation results and analysis, and the survivability statistics obtained in simulation	10 months after the option activation
Optional 5	Models and simulation results,	10 months after the option activation
	Technical reports focusing on a statistical determination of the maximum speed a target can have for a GBU model to reach it within acceptable bounds	12 months after the option activation
6	Models and simulation results,	16 months after the award
	Technical reports focusing on analysis of results, V&V versus established requirements, documentation on the models and code developed.	16 months after the award
7	Models and simulation results,	16 months after the award
	Technical reports focusing on analysis of results, documentation on the models and code developed.	16 months after the award
8	Report (30 - 40 pages): Introduction, Approach, Sub-model overview (Guidance, propulsion, aerodynamic, autopilot, vulnerability/lethality, warhead/fuze, sensors, seekers), Recommendations, Conclusions	5 months after the award
9	Models and sub-models as required to support simulation and analysis (All Matlab Simulink models and scripts)	5 months after the award
	Example engagement model (denoted: 'GGM-air-breathing.mdl')	5 months after the award
	Report (30 - 40 pages): Introduction, Methodology, Scenario, Model and sub/model description, Integration, Test case, Conclusions	5 months after the award
Optional 10	Models and sub-models as required to support simulation and analysis	6 months after the option activation
	Report (30 - 40 pages): Introduction, Methodology, Models / sub-models description, Scenarios, Results, Analysis, Conclusions, Annex: Generation of aerodynamic database (guide, files)	6 months after the option activation
11	Verified/tested migration of DRDC Weapons Systems Library (weapons models) to Matlab/Simulink 2013b - 4 platforms	12 months after the award
	VPN point-to-point capability - collaborative workspace	12 months after the award
	Verified/tested plan to migrate DRDC Weapons Systems Library (weapons models) to Matlab/Simulink 2013b (64 bit)	12 months after the award
	Scoping study (short report) for transition of GridDIS from 32-bit to 64-bit (Windows and Linux)	12 months after the award
Optional 12	Final sub-model and model documentation template	6 months after the option activation
	Application of documentation template for specific sub-model and models	6 months after the option activation
	Report (30 - 40 pages): Introduction, Approach, Documentation template (Examples), Automatic generation of documentation, Recommendations, Conclusions	6 months after the option activation
13	Report (30 - 40 pages): Introduction, Approach, Review of software, Sample execution run, Recommendations, Conclusions	14 months after the award

Optional 14	Report (30 - 40 pages): Introduction, Approach, Review of software, Sample execution run, Recommendations, Conclusions	3 months after the option activation
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The Contractor must deliver 3 hard copies of the report printed on 8 ½ in x 11 in paper and 2 electronic copies of the report on a CD or DVD one in each of the following formats: MS Word and Adobe Acrobat PDF. Reports may be delivered in French or English for Tasks 1 through 7. Reports shall be delivered in English for Tasks 8 through 14.

3.3 Numerical models

For each task, the Contractor must deliver numerical models created or modified to accomplish the task. All numerical models must be uploaded on Weapons Systems section SVN server.

4. MEETINGS

Meetings will be held monthly, to a minimum, and may be held upon request from the Contractor or from the Technical Authority.

5. GOVERNMENT FURNISHED EQUIPMENT (GFE)

N/A

6. WORK LOCATION

The Contractor must perform the Work on site at Defence Research and Development Canada – Valcartier Research Centre, 2459 Route de la Bravoure, Quebec City, Quebec, G3J-1X5.

Such on-site work is essential for the execution of the work as defined in this technical specification for the following reasons: (1) to carry out the specialized technical support, which is the topic of this work, by employing the DRDC Valcartier in-house analytical tools, (2) to contribute to and use the tools, databases and software licenses that reside on-site in the DRDC Valcartier laboratories and accessible only through the DRDC Valcartier intranet.

ANNEX B

BASIS OF PAYMENT (to be completed by Canada at Contract award)

A- FOR FIRM TASKS OF THE CONTRACT (1-2-3-6-7-8-9-11-13)

1. **LABOUR** : Firm all-inclusive hourly rates (Applicable Taxes extra, including profit and overhead) as follows : **Est.: \$ _____**

Labour Categories	Firm hourly rates for the following period:				
	Award to March 31, 2015	Number of estimated hours	April 1st 2015 to March 31st 2016	Number of estimated hours	Total estimated for the resource
a) Project Manager Name :	____ \$/hr	____ hrs	____ \$/hr	____ hrs	____ \$
b) Scientific Category 1 (engineer); Name : ____ \$/hr Name : ____ \$/hr Name : ____ \$/hr Name : ____ \$/hr	____ \$/hr ____ \$/hr ____ \$/hr ____ \$/hr	____ hrs ____ hrs ____ hrs ____ hrs	____ \$/hr ____ \$/hr ____ \$/hr ____ \$/hr	____ hrs ____ hrs ____ hrs ____ hrs	____ \$ ____ \$ ____ \$ ____ \$
c) Scientific Category 2 (programmer /analyst) Name : ____ \$/hr Name :	____ \$/hr ____ \$/hr	____ hrs ____ hrs	____ \$/hr ____ \$/hr	____ hrs ____ hrs	____ \$ ____ \$

2. **EQUIPMENT / MATERIALS AND SUPPLIES:** **Est.: \$ _____**
Specify what categories of equipment, materials and supplies.

3. **TRAVEL & LIVING:** **Est.: \$ _____**

The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the Treasury Board Travel Directive (http://www.tbs-sct.gc.ca/pubs_pol/hrpubs/TBM_113/td-dv_e.asp), and with the other provisions of the directive referring to "travellers", rather than those referring to "employees" are applicable.

Solicitation No. - N° de l'invitation
W7701-155935/A
Client Ref. No. - N° de réf. du client
W7701-155935

Amd. No. - N° de la modif.
File No. - N° du dossier
QCL-4-37151

Buyer ID - Id de l'acheteur
qcl028
CCC No./N° CCC - FMS No./N° VME

All travel must have prior authorization of the Technical Authority. All payments are subject to government audit.

4. SUBCONTRACTS (except the resources proposed in section 1. Labor):

Est.: \$ _____

**Ceiling Price: \$ _____
(Applicable Taxes extra)**

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 cost does not exceed the aforementioned Ceiling Price.

B- FOR OPTIONAL SERVICES (4-5-10-12-14)

1. **LABOUR** : Firm all-inclusive hourly rates (Applicable Taxes extra, including profit and overhead) as follows : (see column 2 of the table below)

Labour Categories	Firm hourly rates for the following period:	
	Award to March 31, 2015	April 1st 2015 to March 31st 2016
a) Project Manager Name :	_____\$/hr	_____\$/hr
b) Scientific Category 1 (engineer); Name : Name : Name : Name : Name :	_____\$/hr _____\$/hr _____\$/hr _____\$/hr _____\$/hr	_____\$/hr _____\$/hr _____\$/hr _____\$/hr _____\$/hr
c) Scientific Category 2 (programmer /analyst) Name : Name :	_____\$/hr _____\$/hr	_____\$/hr _____\$/hr

2. EQUIPMENT / MATERIALS AND SUPPLIES: (see column 3 of the table below)

3. TRAVEL & LIVING: (see column 4 of the table below)

The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the Treasury Board Travel Directive (http://www.tbs-sct.gc.ca/pubs_pol/hrpubs/TBM_113/td-dv_e.asp), and with the other provisions of the directive referring to "travellers", rather than those referring to "employees" are applicable.

All travel must have prior authorization of the Technical Authority. All payments are subject to government audit.

4. SUBCONTRACTS (except the resources proposed in section 1. Labor): (see column 5 of the table below)

TASKS	TOTAL ESTIMATED COST - LABOUR	TOTAL ESTIMATED COST - EQUIPMENT / MATERIALS AND SUPPLIES	TOTAL ESTIMATED COST - TRAVEL & LIVING	TOTAL ESTIMATED COST - SUBCONTRACTS	Ceiling Price (Applicable Taxes extra)
4	\$	\$	\$	\$	\$
5	\$	\$	\$	\$	\$
10	\$	\$	\$	\$	\$
12	\$	\$	\$	\$	\$
14	\$	\$	\$	\$	\$

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 cost does not exceed the aforementioned Ceiling Price.

ANNEX C

CONTRACTOR DISCLOSURE OF FOREGROUND INFORMATION

Please refer to **Article 1 - Interpretation of 2040 General Conditions** for the definition of Foreground Information to determine what information must be disclosed.

The Contractor must provide the following information::

1. Contract No.:
2. What is the descriptive title of the FIP (Foreground Intellectual Property)?
3. Abbreviated description of the FIP and, if applicable, of the different systems and sub-systems.
4. What is or was the objective of the project?
5. Explain how the FIP meets the objective of the project (for example: the advantage of the new solution, what problem did the FIP resolve or what benefits did the FIP deliver).
6. Under which category (ies) would you best describe the FIP and why: Patents, Inventions, Trade Secrets, Copyright, Industrial Designs, Rights in Integrated Circuit Topography, Know-how, Other?
7. Describe the features or aspects of the FIP that are novel, useful and not obvious.
8. Has the FIP been tested or demonstrated? If yes, please summarise the results.
9. Has any publication or disclosure to others been made? If so, to whom, when, where and how?
10. Provide names and addresses of the inventors.
11. Provide an explicit and detailed description of the FIP developed during the contract (Refer to pertinent section of the technical report, if necessary).

Please specify name and position of person approving / authorizing this disclosure. This person is to sign and date the disclosure.

Signature Date

Name Title

(Internal DRDC Valcartier)

Signature Date

Name Title (Technical authority)

Solicitation No. - N° de l'invitation
W7701-155935/A
Client Ref. No. - N° de réf. du client
W7701-155935

Amd. No. - N° de la modif.

File No. - N° du dossier
QCL-4-37151

Buyer ID - Id de l'acheteur
qcl028
CCC No./N° CCC - FMS No./N° VME

ANNEX D

SECURITY REQUIREMENTS CHECK LIST

The Security Requirements Check List, which is enclosed, is to be inserted at this point and forms part of this document.



Government
of Canada

Gouvernement
du Canada

Contract Number / Numéro du contrat
W7701-155935
Security Classification / Classification de sécurité
UNCLASSIFIED

SECURITY REQUIREMENTS CHECK LIST (SRCL)
LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)

PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE

1. Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine DND		2. Branch or Directorate / Direction générale ou Direction DRDC Valcartier	
3. a) Subcontract Number / Numéro du contrat de sous-traitance		3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant	
4. Brief Description of Work / Brève description du travail The contractor will provide DRDC Valcartier, Weapons Systems Section with specialized technical support in the area of modelling and simulation (M&S) of air weapons. The work to be performed will involve literature reviews, analytical developments, numerical modelling, simulations experimentations, data analysis, verification and validation (V&V), and subsystem design, as well as single-process simulation and multi-processor distributed simulations.			
5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées?		<input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui	
5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques?		<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
6. Indicate the type of access required / Indiquer le type d'accès requis			
6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7. c) (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c)		<input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui	
6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé.		<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
6. c) Is this a commercial courier or delivery requirement with no overnight storage? S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit?		<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès			
Canada <input checked="" type="checkbox"/>		NATO / OTAN <input type="checkbox"/>	Foreign / Étranger <input checked="" type="checkbox"/>
7. b) Release restrictions / Restrictions relatives à la diffusion			
No release restrictions Aucune restriction relative à la diffusion <input checked="" type="checkbox"/>	All NATO countries Tous les pays de l'OTAN <input type="checkbox"/>	No release restrictions Aucune restriction relative à la diffusion <input checked="" type="checkbox"/>	
Not releasable À ne pas diffuser <input type="checkbox"/>			
Restricted to: / Limité à: Specify country(ies): / Préciser le(s) pays : UK, US, CA, AUS and Permanent Residents of Canada <input checked="" type="checkbox"/>	Restricted to: / Limité à: Specify country(ies): / Préciser le(s) pays : <input type="checkbox"/>	Restricted to: / Limité à: Specify country(ies): / Préciser le(s) pays : UK, US, CA, AUS and Permanent Residents of Canada <input checked="" type="checkbox"/>	
7. c) Level of information / Niveau d'information			
PROTECTED A PROTÉGÉ A <input checked="" type="checkbox"/>	NATO UNCLASSIFIED <input type="checkbox"/>	PROTECTED A PROTÉGÉ A <input checked="" type="checkbox"/>	
PROTECTED B PROTÉGÉ B <input checked="" type="checkbox"/>	NATO NON CLASSIFIÉ <input type="checkbox"/>	PROTECTED B PROTÉGÉ B <input checked="" type="checkbox"/>	
PROTECTED C PROTÉGÉ C <input type="checkbox"/>	NATO RESTRICTED <input type="checkbox"/>	PROTECTED C PROTÉGÉ C <input type="checkbox"/>	
CONFIDENTIAL CONFIDENTIEL <input checked="" type="checkbox"/>	NATO DIFFUSION RESTREINTE <input type="checkbox"/>	CONFIDENTIAL CONFIDENTIEL <input checked="" type="checkbox"/>	
SECRET SECRET <input checked="" type="checkbox"/>	NATO CONFIDENTIAL <input type="checkbox"/>	SECRET SECRET <input checked="" type="checkbox"/>	
TOP SECRET <input type="checkbox"/>	NATO CONFIDENTIEL <input type="checkbox"/>	TOP SECRET <input type="checkbox"/>	
TRÈS SECRET <input type="checkbox"/>	NATO SECRET <input type="checkbox"/>	TRÈS SECRET <input type="checkbox"/>	
TOP SECRET (SIGINT) <input type="checkbox"/>	COSMIC TOP SECRET <input type="checkbox"/>	TOP SECRET (SIGINT) <input type="checkbox"/>	
TRÈS SECRET (SIGINT) <input type="checkbox"/>	COSMIC TRÈS SECRET <input type="checkbox"/>	TRÈS SECRET (SIGINT) <input type="checkbox"/>	



PART A (continued) / PARTIE A (suite)

8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS? ☒ No / Non ☐ Yes / Oui

If Yes, indicate the level of sensitivity:

Dans l'affirmative, indiquer le niveau de sensibilité :

9. Will the supplier require access to extremely sensitive INFOSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate? ☒ No / Non ☐ Yes / Oui

Short Title(s) of material / Titre(s) abrégé(s) du matériel :

Document Number / Numéro du document :

PART B - PERSONNEL (SUPPLIER) / PARTIE B - PERSONNEL (FOURNISSEUR)

10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis

- | | | | |
|--|---|--|--|
| <input type="checkbox"/> RELIABILITY STATUS
COTE DE FIABILITÉ | <input type="checkbox"/> CONFIDENTIAL
CONFIDENTIEL | <input checked="" type="checkbox"/> SECRET
SECRET | <input type="checkbox"/> TOP SECRET
TRÈS SECRET |
| <input type="checkbox"/> TOP SECRET - SIGINT
TRÈS SECRET - SIGINT | <input type="checkbox"/> NATO CONFIDENTIAL
NATO CONFIDENTIEL | <input type="checkbox"/> NATO SECRET
NATO SECRET | <input type="checkbox"/> COSMIC TOP SECRET
COSMIC TRÈS SECRET |
| <input type="checkbox"/> SITE ACCESS
ACCÈS AUX EMPLACEMENTS | | | |

Special comments:

Commentaires spéciaux : Embedded contractor having access to controlled goods

NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided.

REMARQUE : Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.

10. b) May unscreened personnel be used for portions of the work?
Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail? ☒ No / Non ☐ Yes / Oui
- If Yes, will unscreened personnel be escorted?
Dans l'affirmative, le personnel en question sera-t-il escorté? ☐ No / Non ☐ Yes / Oui

PART C - SAFEGUARDS (SUPPLIER) / PARTIE C - MESURES DE PROTECTION (FOURNISSEUR)

INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS

11. a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises?
Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS? ☒ No / Non ☐ Yes / Oui
11. b) Will the supplier be required to safeguard COMSEC information or assets?
Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC? ☒ No / Non ☐ Yes / Oui

PRODUCTION

11. c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises?
Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ? ☒ No / Non ☐ Yes / Oui

INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)

11. d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data?
Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS? ☒ No / Non ☐ Yes / Oui
11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency?
Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale? ☒ No / Non ☐ Yes / Oui



Government
of Canada

Gouvernement
du Canada

Contract Number / Numéro du contrat

W7701-155935

Security Classification / Classification de sécurité
UNCLASSIFIED

PART C - (continued) / PARTIE C - (suite)

For users completing the form **manually** use the summary chart below to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.

Les utilisateurs qui remplissent le formulaire **manuellement** doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form **online** (via the Internet), the summary chart is automatically populated by your responses to previous questions.

Dans le cas des utilisateurs qui remplissent le formulaire **en ligne** (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

SUMMARY CHART / TABLEAU RÉCAPITULATIF

Category Catégorie	PROTECTED PROTÉGÉ			CLASSIFIED CLASSIFIÉ			NATO				COMSEC					
	A	B	C	CONFIDENTIAL	SECRET	TOP SECRET	NATO RESTRICTED	NATO CONFIDENTIAL	NATO SECRET	COSMIC TOP SECRET	PROTECTED PROTÉGÉ			CONFIDENTIAL	SECRET	TOP SECRET
				CONFIDENTIEL	TRÈS SECRET	NATO DIFFUSION RESTREINTE	NATO CONFIDENTIEL	COSMIC TOP SECRET COSMIC TRÈS SECRET	A	B	C	CONFIDENTIEL	SECRET	TOP SECRET		
Information / Assets Renseignements / Biens Production	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IT Media / Support TI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IT Link / Lien électronique	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?

La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE?

☒ No
Non

☐ Yes
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".

Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire.

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?

La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?

☒ No
Non

☐ Yes
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification" and indicate with attachments (e.g. SECRET with Attachments).

Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire et indiquer qu'il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).

Security Requirement Checklist (SRCL) Supplemental Security Guide

Part A - Multiple Release Restrictions: Security Guide							
To be completed in addition to SRCL question 7.b) when release restrictions are therein identified. Indicate to which levels of information release restrictions apply. Make note in the chart if a level of information bears multiple restrictions (e.g. a portion of the SECRET information bears the caveat Canadian Eyes Only while the remainder of the SECRET information has no release restrictions.)							
Canadian Information							
Citizenship Restriction	PROTECTED			CLASSIFIED			
	A	B	C	CONFIDENTIAL	SECRET	TOP SECRET	TOP SECRET (SIGINT)
No Release Restrictions	X	X					
Not Releasable							
Restricted to: UK/US/CA/AUS				X	X		
Permanent Residents Included*				X	X		
NATO Information							
Citizenship Restriction	NATO UNCLASSIFIED		NATO RESTRICTED	NATO CONFIDENTIAL	NATO SECRET	COSMIC TOP SECRET	
All NATO Countries							
Restricted to:							
Permanent Residents Included*							
Foreign Information							
Citizenship Restriction	PROTECTED			CLASSIFIED			
	A	B	C	CONFIDENTIAL	SECRET	TOP SECRET	TOP SECRET (SIGINT)
No Release Restrictions	X	X					
Restricted to : UK/US/CA/AUS				X	X		
Permanent Residents Included*				X	X		
COMSEC Information							
Citizenship Restriction	PROTECTED			CLASSIFIED			
	A	B	C	CONFIDENTIAL	SECRET	TOP SECRET	TOP SECRET (SIGINT)
Not Releasable							
Restricted to:							
DND ONLY Embedded Contractor (Access to Controlled Goods)							
Restriction	Yes						
SECRET clearance with CEO applies							

*When release restrictions are indicated, specify if permanent residents are allowed to be included.

Security Requirement Checklist (SRCL) Supplemental Security Guide

W7701-155935

Part B - Multiple Levels of Personnel Screening: Security Classification Guide			
To be completed in addition to SRCL question 10.a) when multiple levels of personnel screening are therein identified. Indicate which personnel screening levels are required for which portions of the work/access involved in the contract.			
Level of Personnel Clearance (e.g. Reliability, Secret)	Position / Description/Task	Access to sites and/or information. Levels of Information to be accessed.	Citizenship Restriction (if any)
ENHANCED RELIABILITY SECRET	Engineer	Access up to SECRET information	UK,US,CA,AUS and Permanent Residents of Canada
ENHANCED RELIABILITY SECRET	Programmer/analyst	Access up to SECRET information	UK,US,CA,AUS and Permanent Residents of Canada
ENHANCED RELIABILITY	Project Manager	PROTECTED B	UK,US,CA,AUS and Permanent Residents of Canada

Part C – Safeguards / Information Technology (IT) Media – 11d = yes
IT security requirements must be specified in a separate technical document and submitted with the SRCL

OTHER SECURITY INSTRUCTIONS

Insert instructions

SANS CLASSIFICATION

NOTA : LE PRÉSENT DOCUMENT SE VEUT UNIQUEMENT UN GUIDE. SEULES LES CLAUSES CONTRACTUELLES DE LA DSIC DE TPSGC RELATIVES À LA SÉCURITÉ ONT FORCE OBLIGATOIRE. CE GUIDE DOIT ÊTRE UTILISÉ PAR LES RESPONSABLES TECHNIQUES, SCIENTIFIQUES ET DE PROJET DU MDN AINSI QUE PAR LA DSIC DE TPSGC. IL NE DOIT PAS FAIRE PARTIE DES DOCUMENTS CONTRACTUELS DESTINÉS À L'ENTREPRENEUR.

Directives de sécurité au W7701155935

- Les renseignements et biens DÉSIGNÉS/CLASSIFIÉS qui sont échangés ou produits au titre de la présente acquisition seront utilisés, transmis et protégés conformément à la *Politique du gouvernement sur la sécurité* et, pour le personnel de l'entrepreneur qui travaille sur les sites de ce dernier, aux directives qui figurent dans le *Manuel de la sécurité industrielle*. Le personnel de l'entrepreneur qui travaille sur des sites du MDN respectera la *Politique de sécurité du ministère de la Défense nationale* et les *Instructions de sécurité de la Défense nationale* ainsi que tout document connexe sur la technologie de l'information. Les superviseurs de la sécurité de l'unité du MDN doivent s'assurer que le personnel de l'entrepreneur est avisé de ces politiques et de toute autre instruction/politique relative à la sécurité, le cas échéant. Les entrepreneurs étrangers s'en tiendront aux règlements sur la sécurité nationale de leurs gouvernements et (ou) aux ententes bilatérales/protocoles d'entente.
- Avant d'avoir accès à de l'information de nature délicate protégés/classifiés, de biens ou à un site sécuritaire, une confirmation des attestations de sécurité du personnel de l'entrepreneur doit être transmise sur le formulaire "Demande de Permis de Visite DSS-MAS 1810" par communication officielle pour approbation (en accord avec le chapitre 40 de la PSDN), et doit faire mention du nom du contrat/projet/numéro du contrat et de l'officier du projet.
- Les membres du personnel de l'entrepreneur qui ont besoin d'accéder au Réseau étendu de la Défense (RED) doivent être enregistrés et avoir obtenu de la Direction de la sécurité industrielle canadienne et internationale – Programme des marchandises contrôlées (PMC) le niveau requis d'autorisation de sécurité.
- Les contractants ne seront à aucun moment autorisés à faire sortir des locaux du MDN de l'information/des données à caractère de nature délicate protégés/classifiés ou des ressources (y compris l'information traitée au moyen de systèmes informatiques portables appartenant aux contractants).
- Tous les informations à caractère de nature délicate protégés/classifiés conçus, développés ou produits pendant l'exécution des travaux, sont entièrement la propriété du MDN et doit être retournée à la fin du contrat ou celle-ci est demandée par l'autorité contractante. L'entrepreneur ne doit pas reproduire, dissimuler, ou divulguer cette information à aucune autre personne sans le consentement écrit du MDN.
- Les sous-contrats contenant des exigences liées à la sécurité sont interdits sans le consentement écrit de la Direction de la sécurité industrielle canadienne et internationale des Travaux publics et Services gouvernementaux Canada (DSICI/TPSGC).

Personnel du MDN

Le GPA Sécur 3-4 l'officier des contrats du MDN doit être contactée pour toute question liée à la sécurité identifiée dans cette acquisition.

Personnel industriel

L'officier de sécurité de la compagnie (OSC), ou son équivalent, peut contacter la DSI/TPSGC pour toute information concernant les questions liées à la sécurité identifiées dans cette acquisition. Les fournisseurs étrangers transmettront les demandes de renseignements relatives à la sécurité à leur Agence de sécurité nationale (ASN) et se conformeront aux instructions émises par cette Agence.