



**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Public Works and Government Services Canada**  
**ATB Place North Tower**  
**10025 Jasper Ave./10025 ave. Jaspe**  
**5th floor/5e étage**  
**Edmonton**  
**Alberta**  
**T5J 1S6**  
**Bid Fax: (780) 497-3510**

## 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

### Vendor/Firm Name and Address

Raison sociale et adresse du  
fournisseur/de l'entrepreneur

### Issuing Office - Bureau de distribution

Public Works and Government Services Canada  
ATB Place North Tower  
10025 Jasper Ave./10025 ave Jasper  
5th floor/5e étage  
Edmonton  
Alberta  
T5J 1S6

<b>Title - Sujet</b> Software Intro Bundle	
<b>Solicitation No. - N° de l'invitation</b> 23584-160735/A	<b>Date</b> 2015-12-22
<b>Client Reference No. - N° de référence du client</b> 23584-160735	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$EDM-017-10659	
<b>File No. - N° de dossier</b> EDM-5-38229 (017)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2016-02-01</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Mountain Standard Time MST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Logan, Elizabeth	<b>Buyer Id - Id de l'acheteur</b> edm017
<b>Telephone No. - N° de téléphone</b> (780) 497-3956 ( )	<b>FAX No. - N° de FAX</b> (780) 497-3510
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATURAL RESOURCES 183 LONGWOOD RD SOUTH HAMILTON Ontario L8P0A5 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

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

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## TABLE OF CONTENTS

<b>PART 1 - GENERAL INFORMATION .....</b>	<b>2</b>
1.1 STATEMENT OF REQUIREMENT .....	2
THIS REQUIREMENT IS DETAILED UNDER ANNEX "A" REQUIREMENT. ....	2
1.2 DEBRIEFINGS .....	2
1.3 TRADE AGREEMENTS .....	2
<b>PART 2 - BIDDER INSTRUCTIONS .....</b>	<b>2</b>
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS .....	2
2.2 SUBMISSION OF BIDS.....	2
2.3 ENQUIRIES - BID SOLICITATION.....	2
2.4 APPLICABLE LAWS.....	3
<b>PART 3 - BID PREPARATION INSTRUCTIONS.....</b>	<b>3</b>
3.1 BID PREPARATION INSTRUCTIONS .....	3
<b>PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION .....</b>	<b>4</b>
4.1 EVALUATION PROCEDURES.....	4
4.2 BASIS OF SELECTION.....	4
<b>PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION .....</b>	<b>4</b>
5.1 CERTIFICATIONS REQUIRED WITH THE BID.....	5
5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION .....	5
<b>PART 6 - RESULTING CONTRACT CLAUSES .....</b>	<b>6</b>
6.1 SECURITY REQUIREMENTS .....	6
6.2 STATEMENT OF REQUIREMENT .....	6
6.3 STANDARD CLAUSES AND CONDITIONS.....	6
6.4 TERM OF CONTRACT .....	6
6.5 AUTHORITIES .....	6
6.6 PAYMENT .....	7
6.7 INVOICING INSTRUCTIONS .....	8
6.8 CERTIFICATIONS .....	8
6.9 APPLICABLE LAWS.....	8
6.10 PRIORITY OF DOCUMENTS .....	9
6.11 SACC <i>MANUAL</i> CLAUSES .....	9
6.12 INSURANCE .....	9
<b>ANNEX A STATEMENT OF REQUIREMENT .....</b>	<b>10</b>
<b>ANNEX B BASIS OF PAYEMENT .....</b>	<b>13</b>

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## PART 1 - GENERAL INFORMATION

### 1.1 Statement of Requirement

This requirement is detailed under Annex "A" Requirement.

### 1.2 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 from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

### 1.3 Trade Agreements

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT).

## PART 2 - BIDDER INSTRUCTIONS

### 2.1 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* (2015-07-03) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

#### 2.1.1 SACC Manual Clauses

B1000T (2014-06-26) Condition of Material - Bid

### 2.2 Submission of Bids

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

### 2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than ten (10) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) 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.

## 2.4 Applicable Laws

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

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

## PART 3 - BID PREPARATION INSTRUCTIONS

### 3.1 Bid Preparation Instructions

Canada requests that Bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (1 hard copy)

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;
- (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) (<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 8.5 x 11 inch (216 mm x 279 mm) 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, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

#### Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

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**Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

**3.1.1 Exchange Rate Fluctuation**

C3011T (2013-11-06), Exchange Rate Fluctuation

**Section III: Certifications**

Bidders must submit the certifications required under Part 5.

**PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION****4.1 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..

**4.1.1 Technical Evaluation****4.1.1.1 Mandatory Technical Criteria**

See Annex A, MANDATORY SPECIFICATIONS

**4.1.2 Financial Evaluation**

Bidders must submit their financial bid in Canadian Funds in accordance with the Basis of Payment, with their bid at time of bid closing

**4.1.3 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.

- 4.1.4** The evaluated price will be calculated using the Bidder's firm unit prices as provided in Annex B, multiplied by the total quantity for each line item. The evaluated price will be the total aggregate price of the extended prices for all line items.

**4.2 Basis of Selection**

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the highest point rating based on meeting all Mandatory Performance Specifications and achieving the highest technical score and the lowest financial score will be recommended for award of a contract.

**PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

Bidders must provide the required certifications and additional 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 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 will render the bid non-responsive or constitute a default under the Contract.

## **5.1 Certifications Required with the Bid**

Bidders must submit the following duly completed certifications as part of their bid.

### **5.1.1 Declaration of Convicted Offences**

As applicable, pursuant to subsection Declaration of Convicted Offences of section 01 of the Standard Instructions, the Bidder must provide with its bid, a completed [Declaration Form](http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html>), to be given further consideration in the procurement process.

## **5.2 Certifications Precedent to Contract Award and Additional Information**

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

### **5.2.1 Integrity Provisions – List of Names**

Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder.

Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s).

Bidders bidding as societies, firms or partnerships do not need to provide lists of names.

### **5.2.2 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](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list ([http://www.labour.gc.ca/eng/standards\\_equity/eq/emp/fcp/list/inelig.shtml](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.

## PART 6 - RESULTING CONTRACT CLAUSES

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

### 6.1 Security Requirements

6.1.1 There is no security requirement applicable to this Contract.

### 6.2 Statement of Requirement

CanmetENERGY-Devon of Natural Resources Canada (NRCan) has a requirement for the supply and delivery of one (1) integrated software platform for computational modeling of materials capable of addressing atomic ( $10^{-10}$  m) to micrometer ( $10^{-6}$  m) scale of space as well as nanosecond to second scale of time and providing direct input and output among platform modules so as to enable simulations in these scales and high-quality visualization of the results. The software must be delivered to CanmetENERGY-Devon, Devon, AB on or before March 24, 2016.

### 6.3 Standard Clauses and Conditions

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

#### 6.3.1 General Conditions

[2010A](#) (2015-09-03), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

#### 6.3.2 Supplemental General Conditions

[4003](#) (2010-08-16), Licensed Software

[4004](#) (2013-04-25), Maintenance and Support Services for Licensed Software

[4006](#) (2010-08-16), Contractor to Own Intellectual Property Rights in Foreground Information

### 6.4 Term of Contract

#### 6.4.1 Period of the Contract

#### 6.4.1 Delivery Date

All the deliverables must be received on or before March 24, 2016.

### 6.5 Authorities

#### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Elizabeth Logan  
Title: Procurement Specialist  
Public Works and Government Services Canada  
Acquisitions Branch

Solicitation No. - N° de l'invitation  
K4E21-150038/A  
Client Ref. No. - N° de réf. du client  
K4E21-150038

Amd. No. - N° de la modif.  
File No. - N° du dossier  
EDM-5-38199

Buyer ID - Id de l'acheteur  
EDM017  
CCC No./N° CCC - FMS No./N° VME

Address: Directorate: Western Region  
ATB Place, North Tower  
5<sup>th</sup> Floor – 10025 Jasper Avenue  
Edmonton, AB T5J 1S6

Telephone: 780- 497-3956  
Facsimile: 780- 497- 3510  
E-mail address: [elizabeth.logan@pwgsc-tps.gc.ca](mailto:elizabeth.logan@pwgsc-tps.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.

### 6.5.2 Project Authority

The Project Authority for the Contract is: (will be inserted at contract award)

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone : \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

The Project 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 Project Authority, however the Project 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.

### 6.5.3 Contractor's Representative (to be completed by bidder)

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
Facsimile: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
E-mail address: \_\_\_\_\_

## 6.6 Payment

### 6.6.1 Basis of Payment - Firm Price, Firm Unit Price(s) or Firm Lot Price(s)

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit price(s), as specified in Annex B for a cost of \$ \_\_\_\_\_ (*amount to be inserted at contract award*). Customs duties are included and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work,



unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

#### **6.6.2 Limitation of Price**

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

#### **6.6.3 Single Payment**

SACC Manual clause H1000C (2008-05-12) Single Payment

#### **6.6.4 SACC Manual Clauses**

*C2000C (2007-11-30), Taxes - Foreign-based Contractor*  
*C2002C (2010-01-11), Duties and Taxes - Foreign-based Contractor - State of California*  
*C2605C (2008-05-12), Canadian Customs Duties and Sales Tax - Foreign-based Contractor*  
*C5201C (2008-05-12), Prepaid Transportation Costs*

#### **6.7 Invoicing Instructions**

6.7.1 The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

6.7.2 Invoices must be distributed as follows:

- a) The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
- b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract

#### **6.8 Certifications**

##### **6.8.1 Compliance**

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional 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 additional 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.

#### **6.9 Applicable Laws**

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Alberta.

Solicitation No. - N° de l'invitation  
K4E21-150038/A  
Client Ref. No. - N° de réf. du client  
K4E21-150038

Amd. No. - N° de la modif.  
File No. - N° du dossier  
EDM-5-38199

Buyer ID - Id de l'acheteur  
EDM017  
CCC No./N° CCC - FMS No./N° VME

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#### **6.10 Priority of Documents**

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2015-09-03) - Goods (Medium Complexity);
- (c) Annex A, Statement of Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated \_\_\_\_\_ (to be completed by bidder)

#### **6.11 SACC Manual Clauses**

SACC Manual Clause B1501C (2006-06-16), Electrical Equipment  
SACC Manual Clause B7500C (2006-06-16), Excess Goods

#### **6.12 Insurance**

SACC Manual Clause G1005C (2008-05-12) Insurance

## ANNEX A REQUIREMENT

### TITLE: Integrated Software Platform

#### BACKGROUND

CanmetENERGY-Devon of Natural Resources Canada (NRCan) has a requirement for the supply and delivery of one (1) integrated software platform for computational modeling of materials capable of addressing atomic ( $10^{-10}$  m) to micrometer ( $10^{-6}$  m) scale of space as well as nanosecond to second scale of time and providing direct input and output among platform modules so as to enable simulations in these scales and high-quality visualization of the results. The software must be delivered to CanmetENERGY-Devon, Devon, AB on or before March 24, 2016.

The integrated software platform will be used as a research tool to study systems and processes relevant to hydrocarbon recovery, including competitive adsorption, flocculation, coagulation, demulsification, and gelation, occurring in solution and at surfaces and interfaces.

The supplied software platform must be capable of computational modeling and simulations, and run on both Windows and Linux operating systems with high parallelization efficiency to meet the Mandatory criteria.

#### MANDATORY REQUIREMENTS:

The Contract must supply and deliver one (1) **Integrated Software Platform for Multiscale Computational Modeling for Materials Science**.

Bidders proposed integrated software platform must meet all Mandatory Criteria detailed below.

Proposals must be accompanied by supporting technical documentation (weblinks to documentation are not acceptable) that clearly demonstrates each mandatory requirement. Any proposals not meeting all of mandatory criteria will be given no further consideration.

#### MANDATORY CRITERIA

Item No.	Description	Met	Not Met	Proposal Reference Page #
M1	The Integrated Software Platform must be capable of performing Geometry optimization, thermochemistry and quantum mechanics / molecular dynamics simulations in cluster and periodic boundary conditions at density functional theory and density functional tight-binding levels for the quantum mechanical system, taking into account solvent effects.			
M2	The system must be capable of performing classical molecular dynamics simulations for systems with tens of thousands of atoms.			
M3	The system must be capable of performing chemical reaction modeling, including transition states search and optimization, in periodic boundary conditions at density functional theory and density functional tight-binding levels, taking into account solvent effects			

M4	The system must be capable of performing geometry optimization and molecular dynamics simulations of coupled quantum mechanics / molecular mechanics systems.			
M5	The system must be capable of performing prediction and screening of structural, thermophysical, mechanical, transport, optical and magnetic properties of polymers.			
M6	The system must be capable of performing dissipative particle dynamics and coarse-grained molecular dynamics simulations, including coarse-graining and preparation of force fields based on mandatory criteria M1 and M2 (above), and capability to use input potentials from user-defined sources			
M7	The system must be capable to export and import structures and force fields among computational modules of the platform in order to enable multiscale modeling as part of the single integrated platform			
M8	The User interface must allow for the following: a. input of structures using both a pointing device and built-in templates of experimentally-determined geometries b. import of standard structure (xyz, gjf, car, mol, cif, pdb) and volumetric data (cub, grd) files c. output of structures, isosurfaces, surface maps, slices and movies with very high resolution and quality d. export of standard file formats for structure (xyz, gjf, car, mol, cif, pdb), volumetric data (cub, grd), image (tif, png, jpeg, bmp) and video (avi, mpg)			
M9	Bidders must provide evidence from peer-reviewed publications that the computational results of M1-M8 are in good agreement with experimental results reported based on advanced characterization techniques and measurements			
M10	Bidders must provide demonstrated results from benchmarking of parallelization performance up to 48 cores and 6 nodes			
M11	The software platform must be capable of computational modeling and simulations, and run on both Windows and Linux operating systems with high parallelization			
M12	Bidder must provide technical support to identify the cause of program errors and assist to resolve them.			
M13	Bidders must provide assistance with program usage on solving scientific problems.			
M14	The Bidder must provide all software updates and new releases to the purchaser for a period of minimum one (1) year following the acceptance, at no additional cost.  Note: The word "updates" means all enhancements, extensions or other			

Solicitation No. - N° de l'invitation  
K4E21-150038/A  
Client Ref. No. - N° de réf. du client  
K4E21-150038

Amd. No. - N° de la modif.  
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EDM-5-38199

Buyer ID - Id de l'acheteur  
EDM017  
CCC No./N° CCC - FMS No./N° VME

	modifications to the software. The word "releases" means enhancements or modifications to the software or new modules or supplementary modules that function in conjunction with the software, that represent the next generation of software, and which the Contractor has decided to make available to its customers usually for an additional charge.			
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## ANNEX B

### BASIS OF PAYMENT

#### Instruction to Bidders:

Annex "B" – Basis of Selection/Basis of Payment, when completed will be considered the Financial Bid. Unit price(s) below must be firm and in Canadian funds including Canadian customs duties, excise taxes, delivery charges which are to be Delivered Duty Paid (DDP) to destination as indicated herein.

The responsive bid with the lowest evaluated price will be recommended for award of a contract.

The amount of the Goods and Services Tax shall be shown as a separate item.

Description	Unit of Issue	Firm Unit Price (Canadian Funds)	Evaluated Total (Canadian Funds)
Integrated Software Platform, as per Annex "A"	1	\$ _____	\$ _____
GST		\$ _____	\$ _____

#### Delivery Date

All the deliverables must be received on or before March 24, 2016.

The delivery date offered is \_\_\_\_\_ (as specified by the Bidder) taking into account the above mandatory delivery date.

#### Delivery Location

CanMET ENERGY – NRCAN  
1 OIL PATCH DR  
DEVON AB T9G 1A6