



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada

800 Burrard Street, Room 219

800, rue Burrard, pièce 219

Vancouver, BC V6Z 0B9

Bid Fax: (604) 775-7526

**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 Laboratory Casework	
Solicitation No. - N° de l'invitation F1700-180005/A	Date 2019-12-16
Client Reference No. - N° de référence du client F1700-180005	
GETS Reference No. - N° de référence de SEAG PW-\$VAN-582-8709	
File No. - N° de dossier VAN-9-42182 (582)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-02-04	Time Zone Fuseau horaire Pacific Standard Time PST
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: Lee, Hilda	Buyer Id - Id de l'acheteur van582
Telephone No. - N° de téléphone (604) 764-6053 ()	FAX No. - N° de FAX (604) 775-7526
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF FISHERIES AND OCEANS various science labs Pacific Region IOS (Sydney), PBS (Nanaimo), PSEC (West Vancouver) British Columbia Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

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

Issuing Office - Bureau de distribution

Public Works and Government Services Canada - Pacific
Region

219 - 800 Burrard Street

800, rue Burrard, pièce 219

Vancouver, BC V6Z 0B9

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

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Definitions

In this Request for Standing Offers, unless the context otherwise requires.

“Authorized User”

Means a Federal Identified User and Provincial/Territorial Identified User, as specified in the Standing Offer, authorized to make call-ups against the Standing Offer.

“Federal Identified User”

Means any Federal Government Department, agency or Crown corporation listed in Schedules I, I.1, II, III, of the *Financial Administration Act*, R.S., 1985, c. F-11.

“Provincial/Territorial Identified User”

Means any Canadian province or territory including, as applicable, Municipal, Academic Institutions, Schools and Hospitals Sector (MASH), to whom the Minister of the Department of Public Works and Government Services Canada can provide access to its procurement services and instruments. The MASH Sector can include regional, local, district or other forms of municipal government, school boards, publicly-funded academic, health and social service entities, as well as any corporation or entity owned or controlled by one or more of the preceding entities.

PART 1 - GENERAL INFORMATION

Principal – Agent Relationship

Canada is not acting as an agent for the “Provincial/Territorial Identified User” nor is the “Provincial/Territorial Identified User” a principal of Canada.

By submitting an Offer, the Offeror acknowledges that all responsibilities and liabilities associated with the issuance and management of the call-up by the “Provincial/Territorial Identified User” rest with that “Provincial/Territorial Identified User”.

Offer

By submitting an Offer, the Offeror offers to provide and deliver to Authorized Users the goods or services or combination of goods and services described in the Standing Offer, in accordance with the pricing set out in the Standing Offer if and when the Authorized User requests such goods or services or combination of goods and services, in accordance with the conditions set out in the Standing Offer.

Exclusionary Clause

By submitting an Offer, the Offeror agrees that it has no claim, action, cause of action or complaint whether in contract (express or implied), in negligence or other tort, in equity, under any statute or otherwise at law against Her Majesty the Queen in Right of Canada, and will be barred from bringing any such claim, action or complaint against Her Majesty the Queen in Right of Canada for any damages, compensation, costs, interests, loss, lost opportunity or injury, of any kind or nature, arising from the issuance of a call-up against a Standing Offer and its resulting contract where the call-up is issued by a Provincial/Territorial Identified User. The Offeror recognizes and agrees that by issuing a call-up, the Provincial/Territorial Identified User becomes the Contracting Authority and as such is responsible for any contractual issues, or any other issues related to individual call-ups made against the Standing Offer.

1.1 Introduction

The Request for Standing Offers (RFSO) is divided into seven parts plus attachments and annexes, as follows:

- | | |
|--------|---|
| Part 1 | General Information: provides a general description of the requirement; |
| Part 2 | Offeror Instructions: provides the instructions applicable to the clauses and conditions of the RFSO; |
| Part 3 | Offer Preparation Instructions: provides offerors with instructions on how to prepare their offer to address the evaluation criteria specified; |
| Part 4 | Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria which must be addressed in the offer, and the basis of selection; |
| Part 5 | Certifications and Additional Information: includes the certifications and additional information to be provided; |
| Part 6 | Security, Financial and Insurance Requirements: includes specific requirements that must be addressed by offerors; and |
| Part 7 | 7A, Standing Offer, and 7B, Resulting Contract Clauses: |

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7A, includes the Standing Offer containing the offer from the Offeror and the applicable clauses and conditions;

7B, includes the clauses and conditions which will apply to any contract resulting from a call-up made pursuant to the Standing Offer.

The Annexes include the Statement of Requirement, Specifications, the Basis of Payment, the Electronic Payment Instruments, the Federal Contractors Program for Employment Equity - Certification and any other annexes

The following Annexes are appended to and form part of this RFSO:

Annex A – STATEMENT OF REQUIREMENT

Annex B - SPECIFICATIONS

Annex C – BASIS OF PAYMENT

Annex D – ELECTRONIC PAYMENT INSTRUMENTS

Annex E - FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY –
CERTIFICATION

Annex F – EVALUATION CRITERIA

1.2 Summary

The Department of Fisheries and Oceans (DFO) has a requirement for the supply, deliver and installation of single or multiple modular laboratory casework systems which could include, but not limited to replace existing benchtops and casework and reconfiguration of laboratory room layouts on an “as and when required” basis for their 4 Science Facilities in BC.

Cultus Lake Laboratory (Cultus Lake)
Institute of Ocean Sciences (Sidney BC)
Pacific Science Enterprise Centre (West Vancouver)
Pacific Biological Station (Nanaimo)

The period of the Standing Offer is for three year after award of Standing Offer.

The estimated value is \$4,000,000.00 for a total of three (3) year, applicable taxes included. Actual usage can vary.

Only Authorized Users will be authorized to issue call-ups against this RISO.

The Phased Bid Compliance Process applies to this requirement.

The Federal Contractors Program (FCP) for employment equity applies to this procurement; refer to Par 5 – Certifications and Additional Information, Part 7A -Standing Offer, and Part 7B - Resulting Contract Clauses and the annex titled Federal Contractors Program for Employment Equity - Certification.

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This RFSO allows offerors to use the epost Connect service provided by Canada Post Corporation to transmit their offers electronically. Offerors must refer to Part 2 of the RFSO entitled Offeror Instructions and Part 3 of the RFSO entitled Offer Preparation Instructions, for further information on using this method.

1.3 Debriefings

Offerors may request a debriefing on the results of the request for standing offers process. Offerors should make the request to the Standing Offer Authority within 15 working days of receipt of the results of the request for standing offers process. The debriefing may be in writing, by telephone or in person.

1.4 Offer

By submitting an Offer, the Offeror offers to provide and deliver the goods or services or combination of goods and services described in the Standing Offer, in accordance with the pricing set out in the Standing Offer if and when the Authorized User requests such goods or services or combination of goods and services, in accordance with the conditions set out in the Standing Offer.

1.5 Disclosure of information – Optional Users

The following definitions apply to this provision only:

“**Optional Users**” are MASH entities that have not been authorized by their respective provinces to issue Call-Ups under the Standing Offer.

“**MASH entities**” are municipal, academic institutions, schools and hospital sectors of a province. They can include regional, local, district or other forms of municipal government, school boards, publicly-funded academic, health and social service entities, as well as any corporation or entity owned or controlled by one or more of the preceding entities.

The Offeror acknowledges Optional Users may be interested in procuring for their own use the goods or services or combination of goods and services as described in this Standing Offer (referred to hereinafter as “Deliverables.”

In the event that an Optional User contacts the Offeror to purchase some or all of the Deliverables (referred to hereinafter as a “Request”), the Offeror will enter into negotiations with such Optional User. As part of the negotiations, the Offeror will: a) disclose to the Optional User its unit and rate pricing as set out in the Standing Offer, b) disclose all of the other terms and conditions thereof, and c) as necessary, use commercially reasonable efforts to negotiate with the Optional User a separate agreement for the supply of the Deliverables (referred to hereinafter as “Separate Agreement”).

The Offeror will be responsible for its own contract administration with the Optional User. It will not redirect any contract issues to Canada that may arise with the Optional User. Those contract issues include, but are not limited to, contract negotiations, contract administration and contract performance.

The Offeror will have no power to bind Canada, to create a partnership, a joint venture or an agency between Canada and the Optional User. The Offeror must not represent itself as an agent or representative of Canada to the Optional User.

Canada will not be, or be deemed to be, a party to any Separate Agreement, or a guarantor of any obligations or liability of any party under any Separate Agreement. For greater certainty, Canada will not be responsible or liable to the Offeror for any costs, obligation or liability for any matter arising under, or in connection with, any Separate Agreement.

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Canada makes no representation, assurance, warranty or guarantee that an Optional User will make a Request or that it will enter into a Separate Agreement with the Offeror.

1.6 Anticipated migration to an e-Procurement Solution (EPS)

Canada is currently developing an online EPS for faster and more convenient ordering of goods and services. In support of the anticipated transition to this system and how it may impact any resulting Standing Offer that is issued under this solicitation, refer to 7.15 Transition to an e-Procurement Solution (EPS).

The Government of Canada's [press release](#) provides additional information.

PART 2 - OFFEROR INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the Request for Standing Offers (RFSO) 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.

Offerors who submit an offer agree to be bound by the instructions, clauses and conditions of the RFSO and accept the clauses and conditions of the Standing Offer and resulting contract(s).

The [2006 \(2019-03-04\)](#) Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the RFSO.

Subsection 03 of [2006](#), Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, is amended as follows:

Pursuant to the [Department of Public Works and Government Services Act](#) (S.C. 1996, c. 16), the instructions, clauses and conditions identified in the RFSO, standing offer and resulting contract(s) by number, date and title may be incorporated by reference into and if so will form part of the RFSO, standing offer and resulting contract(s) as though expressly set out in the RFSO, the standing offer and the resulting contract(s).

Subsection 5.4 of [2006](#), Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 180 days

2.2 Submission of Offers

Offers must be submitted only to the Public Works and Government Services Canada (PWGSC) Bid Receiving Unit specified below by the date and time indicated on page 1 of the RFSO:

Bid Receiving Unit
Public Services and Procurement Canada
800 Burrard Street, Room 219
Vancouver, B.C. V6Z 0B9

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TPSGC.RPReceptiondessoumissions-PRBidReceiving.PWGSC@tpsgc-pwgsc.gc.ca

Note: Offers will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions [2006](#), or to send offers through an epost Connect message if the offeror is using its own licensing agreement for epost Connect.

Facsimile number: 604-775-7526

2.3 Enquiries - Request for Standing Offers

All enquiries must be submitted in writing to the Standing Offer Authority no later than 10 calendar days before the Request for Standing Offers (RFSO) closing date. Enquiries received after that time may not be answered.

Offerors should reference as accurately as possible the numbered item of the RFSO to which the enquiry relates. Care should be taken by offerors 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 offerors do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all offerors. Enquiries not submitted in a form that can be distributed to all offerors may not be answered by Canada.

2.4 Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in British Columbia.

Offerors may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their offer, 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 offerors.

2.5 Optional Site Visit

It is recommended that the Offeror or a representative of the Offeror visit the work site. Arrangements have been made for the site visit to be held at **Pacific Science Enterprise Centre (PSEC), 4160 Marine Drive, West Vancouver, BC V7V 1H2** on **January 8, 2020**. The site visit will begin at **10:00 PST**.

Offerors are requested to communicate with the Contracting Authority no later than **January 2, 2020** to confirm attendance and provide the name(s) of the person(s) who will attend. Offerors may be requested to sign an attendance sheet. Offerors who do not attend or do not send a representative will not be given an alternative appointment but they will not be precluded from submitting a bid. Any clarifications or changes to the RFSO resulting from the site visit will be included as an amendment to the RFSO.

PART 3 - OFFER PREPARATION INSTRUCTIONS

3.1 Offer Preparation Instructions

- If the Offeror chooses to submit its offer electronically, Canada requests that the Offeror submits its offer in accordance with section 08 of the 2006 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation. The offer must be gathered per section and separated as follows:

Section I: Technical Offer

Section II: Financial Offer

Section III: Certifications

- If the Offeror chooses to submit its offer in hard copies, Canada requests that the Offeror provides its offer in separately bound sections as follows:

Section I: Technical Offer (3 hard copies)

Section II: Financial Offer (2 hard copies)

Section III: Certifications (2 hard copies)

If there is a discrepancy between the wording of the soft copy on electronic media and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

- If the Offeror is simultaneously providing copies of its offer using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through epost Connect service, the wording of the electronic copy provided through epost Connect service will have priority over the wording of the other copies.

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

Canada requests that offerors follow the format instructions described below in the preparation of hard copy of their offer:

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

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](https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573) (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). To assist Canada in reaching its objectives, Offerors 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 Offer

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

Section II: Financial Offer

Offerors must submit their financial offer in accordance with the Annex C, Basis of Payment.

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

3.1.1 Electronic Payment of Invoices - Offer

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex "D" Electronic Payment Instruments, to identify which ones are accepted.

If Annex "D" Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.2 Exchange Rate Fluctuation

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

Section III: Certifications Offerors must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Offers will be assessed in accordance with the entire requirement of the Request for Standing Offers including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the offers.
- (c) Canada will use the Phased Bid Compliance Process described below.

4.1.1 Phased Bid Compliance Process

4.1.1.1 (2018-07-19) General

- (a) Canada is conducting the PBCP described below for this requirement.
- (b) Notwithstanding any review by Canada at Phase I or II of the PBCP, Offerors are and will remain solely responsible for the accuracy, consistency and completeness of their Offers and Canada does not undertake, by reason of this review, any obligations or responsibility for identifying any or all errors or omissions in Offers or in responses by a Offeror to any communication from Canada.

THE OFFEROR ACKNOWLEDGES THAT THE REVIEWS IN PHASE I AND II OF THIS PBCP ARE PRELIMINARY AND DO NOT PRECLUDE A FINDING IN PHASE III THAT THE OFFER IS NON-RESPONSIVE, EVEN FOR MANDATORY REQUIREMENTS WHICH WERE SUBJECT TO REVIEW IN PHASE I OR II AND NOTWITHSTANDING THAT THE OFFER HAD BEEN FOUND RESPONSIVE IN SUCH EARLIER PHASE. CANADA MAY DEEM AN OFFER TO BE

NON-RESPONSIVE TO A MANDATORY REQUIREMENT AT ANY PHASE.

THE OFFEROR ALSO ACKNOWLEDGES THAT ITS RESPONSE TO A NOTICE OR A COMPLIANCE ASSESSMENT REPORT (CAR) (EACH DEFINED BELOW) IN PHASE I OR II MAY NOT BE SUCCESSFUL IN RENDERING ITS OFFER RESPONSIVE TO THE MANDATORY REQUIREMENTS THAT ARE THE SUBJECT OF THE NOTICE OR CAR, AND MAY RENDER ITS OFFER NON-RESPONSIVE TO OTHER MANDATORY REQUIREMENTS.

- (c) Canada may, in its discretion, request and accept at any time from a Offeror and consider as part of the Offer, any information to correct errors or deficiencies in the Offer that are clerical or administrative, such as, without limitation, failure to sign the Offer or any part or to checkmark a box in a form, or other failure of format or form or failure to acknowledge; failure to provide a procurement business number or contact information such as names, addresses and telephone numbers; inadvertent errors in numbers or calculations that do not change the amount the Offeror has specified as the price or of any component thereof that is subject to evaluation. This shall not limit Canada's right to request or accept any information after the Offer solicitation closing in circumstances where the bid solicitation expressly provides for this right. The Offeror will have the time period specified in writing by Canada to provide the necessary documentation. Failure to meet this deadline will result in the Offer being declared non-responsive.
- (d) The PBCP does not limit Canada's rights under Standard Acquisition Clauses and Conditions (SACC) 2003 (2019-03-04) Standard Instructions – Goods or Services – Competitive Requirements nor Canada's right to request or accept any information during the solicitation period or after offer solicitation closing in circumstances where the offer solicitation expressly provides for this right, or in the circumstances described in subsection (c).
- (e) Canada will send any Notice or CAR by any method Canada chooses, in its absolute discretion. The Offeror must submit its response by the method stipulated in the Notice or CAR. Responses are deemed to be received by Canada at the date and time they are delivered to Canada by the method and at the address specified in the Notice or CAR. An email response permitted by the Notice or CAR is deemed received by Canada on the date and time it is received in Canada's email inbox at Canada's email address specified in the Notice or CAR. A Notice or CAR sent by Canada to the Offeror at any address provided by the Offeror in or pursuant to the Offer is deemed received by the Offeror on the date it is sent by Canada. Canada is not responsible for late receipt by Canada of a response, however caused.

4.1.1.2 (2018-03-13) Phase I: Financial Offer

- (a) After the closing date and time of this offer solicitation, Canada will examine the Offer to determine whether it includes a Financial Offer and whether any Financial Offer includes all information required by the solicitation. Canada's review in Phase I will be limited to identifying whether any information that is required under the offer solicitation to be included in the Financial Offer is missing from the Financial Offer. This review will not assess whether the Financial Offer meets any standard or is responsive to all solicitation requirements.
- (b) Canada's review in Phase I will be performed by officials of the Department of Public Works and Government Services.
- (c) If Canada determines, in its absolute discretion that there is no Financial Offer or that the Financial Offer is missing all of the information required by the bid solicitation to be included in the Financial Offer, then the Offer will be considered non-responsive and will be given no further consideration.

-
- (d) For Offers other than those described in c), Canada will send a written notice to the Offeror ("Notice") identifying where the Financial Offer is missing information. An Offeror, whose Financial Offer has been found responsive to the requirements that are reviewed at Phase I, will not receive a Notice. Such Offerors shall not be entitled to submit any additional information in respect of their Financial Offer.
- (e) The Offerors who have been sent a Notice shall have the time period specified in the Notice (the "Remedy Period") to remedy the matters identified in the Notice by providing to Canada, in writing, additional information or clarification in response to the Notice. Responses received after the end of the Remedy Period will not be considered by Canada, except in circumstances and on terms expressly provided for in the Notice.
- (f) In its response to the Notice, the Offeror will be entitled to remedy only that part of its Financial Offer which is identified in the Notice. For instance, where the Notice states that a required line item has been left blank, only the missing information may be added to the Financial Offer, except that, in those instances where the addition of such information will necessarily result in a change to other calculations previously submitted in its Financial Offer, (for example, the calculation to determine a total price), such necessary adjustments shall be identified by the Offeror and only these adjustments shall be made. All submitted information must comply with the requirements of this solicitation.
- (g) Any other changes to the Financial Offer submitted by the Offeror will be considered to be new information and will be disregarded. There will be no change permitted to any other Section of the Offeror's Offer. Information submitted in accordance with the requirements of this solicitation in response to the Notice will replace, in full, **only** that part of the original Financial Offer as is permitted above, and will be used for the remainder of the Offer evaluation process.
- (h) Canada will determine whether the Financial Offer is responsive to the requirements reviewed at Phase I, considering such additional information or clarification as may have been provided by the Offeror in accordance with this Section. If the Financial Offer is not found responsive for the requirements reviewed at Phase I to the satisfaction of Canada, then the Offer shall be considered non-responsive and will receive no further consideration.
- (i) Only Offers found responsive to the requirements reviewed in Phase I to the satisfaction of Canada, will receive a Phase II review.

4.1.1.3 (2018-03-13) Phase II: Technical Offer

- (a) Canada's review at Phase II will be limited to a review of the Technical Offer to identify any instances where the Offeror has failed to meet any Eligible Mandatory Criterion. This review will not assess whether the Technical Offer meets any standard or is responsive to all solicitation requirements. Eligible Mandatory Criteria are all mandatory technical criteria that are identified in this solicitation as being subject to the PBCP. Mandatory technical criteria that are not identified in the solicitation as being subject to the PBCP, will not be evaluated until Phase III.
- (b) Canada will send a written notice to the Offeror (Compliance Assessment Report or "CAR") identifying any Eligible Mandatory Criteria that the Offer has failed to meet. A Offeror whose Offer has been found responsive to the requirements that are reviewed at Phase II will receive a CAR that states that its Offer has been found responsive to the requirements reviewed at Phase II. Such Offeror shall not be entitled to submit any response to the CAR.
- (c) A Offeror shall have the period specified in the CAR (the "Remedy Period") to remedy the

failure to meet any Eligible Mandatory Criterion identified in the CAR by providing to Canada in writing additional or different information or clarification in response to the CAR. Responses received after the end of the Remedy Period will not be considered by Canada, except in circumstances and on terms expressly provided for in the CAR.

- (d) The Offeror's response must address only the Eligible Mandatory Criteria listed in the CAR as not having been achieved, and must include only such information as is necessary to achieve such compliance. Any additional information provided by the Offeror which is not necessary to achieve such compliance will not be considered by Canada, except that, in those instances where such a response to the Eligible Mandatory Criteria specified in the CAR will necessarily result in a consequential change to other parts of the Offer, the Offeror shall identify such additional changes, provided that its response must not include any change to the Financial Offer.
- (e) The Offeror's response to the CAR should identify in each case the Eligible Mandatory Criterion in the CAR to which it is responding, including identifying in the corresponding section of the original Offer, the wording of the proposed change to that section, and the wording and location in the Offer of any other consequential changes that necessarily result from such change. In respect of any such consequential change, the Offeror must include a rationale explaining why such consequential change is a necessary result of the change proposed to meet the Eligible Mandatory Criterion. It is not up to Canada to revise the Offeror's Offer, and failure of the Offeror to do so in accordance with this subparagraph is at the Offeror's own risk. All submitted information must comply with the requirements of this solicitation.
- (f) Any changes to the Offer submitted by the Offeror other than as permitted in this solicitation, will be considered to be new information and will be disregarded. Information submitted in accordance with the requirements of this solicitation in response to the CAR will replace, in full, **only** that part of the original Offer as is permitted in this Section.
- (g) Additional or different information submitted during Phase II permitted by this section will be considered as included in the Offer, but will be considered by Canada in the evaluation of the Offer at Phase II only for the purpose of determining whether the Offer meets the Eligible Mandatory Criteria. It will not be used at any Phase of the evaluation to increase or decrease any score that the original Offer would achieve without the benefit of such additional or different information. For instance, an Eligible Mandatory Criterion that requires a mandatory minimum number of points to achieve compliance will be assessed at Phase II to determine whether such mandatory minimum score would be achieved with such additional or different information submitted by the Offeror in response to the CAR. If so, the Offer will be considered responsive in respect of such Eligible Mandatory Criterion, and the additional or different information submitted by the Offeror shall bind the Offeror as part of its Offer, but the Offeror's original score, which was less than the mandatory minimum for such Eligible Mandatory Criterion, will not change, and it will be that original score that is used to calculate any score for the Offer.
- (h) Canada will determine whether the Offer is responsive for the requirements reviewed at Phase II, considering such additional or different information or clarification as may have been provided by the Offeror in accordance with this Section. If the Offer is not found responsive for the requirements reviewed at Phase II to the satisfaction of Canada, then the Offer shall be considered non-responsive and will receive no further consideration.

-
- (i) Only Offers found responsive to the requirements reviewed in Phase II to the satisfaction of Canada, will receive a Phase III evaluation.

4.1.1.4 (2018-03-13) Phase III: Final Evaluation of the Offer

- (a) In Phase III, Canada will complete the evaluation of all Offers found responsive to the requirements reviewed at Phase II. Offers will be assessed in accordance with the entire requirement of the offer solicitation including the technical and financial evaluation criteria.
- (b) A Offer is non-responsive and will receive no further consideration if it does not meet all mandatory evaluation criteria of the solicitation.

4.1.2 Technical Evaluation

4.1.2.1 Mandatory Technical Criteria

Each bid will be reviewed for compliance with the mandatory requirements of the bid solicitation. Any elements of the bid solicitation that are identified specifically with the words "must" or "mandatory" is a mandatory requirement. Bids that do not comply with each and every mandatory requirement will be declared non-responsive and be disqualified.

The Phased Bid Compliance Process will apply to all mandatory technical criteria.

4.1.3 Financial Evaluation

4.1.3.1 Evaluation of Price - Offer

SACC *Manual* Clause [M0220T](#) (2016-01-28), Evaluation of Price - Offer

4.2 Basis of Selection

4.2.1 Basis of Selection

To be declared responsive, an offer must:

- a. comply with all the requirements of the Request for Standing Offer;
- b. meet all mandatory criteria; and
- c. have a price within 120% of the average of all technically passing bid prices.

The responsive offers with the lowest evaluated prices will be recommended for issuance of a standing offer.

It is the intention of Canada to issue up to 3 Standing Offer based on the following criteria:

- 1) If there is only 1 offer that meets all the mandatory technical evaluation criteria, it will received 100% of the estimated expenditure. The estimated expenditure for 3 years is \$4,000,000.
- 2) If there are multiple offers that meet all the mandatory technical evaluation criteria, the distribution will be as follows:

If three (3) Standing Offers are awarded:

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1st lowest evaluated price = \$2,400,000.00
2nd lowest evaluated price = \$1,200,000.00
3rd lowest evaluated price = \$400,000.00

If two (2) Standing Offers are awarded

1st lowest evaluated price = \$2,600,000.00
2nd lowest evaluated price = \$1,400,000.00

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Offerors must provide the required certifications and additional information to be issued a standing offer.

The certifications provided by offerors to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare an offer non-responsive, will have the right to set-aside a standing offer, or will declare a contractor in default if any certification made by the Offeror is found to be untrue whether made knowingly or unknowingly during the offer evaluation period, during the Standing Offer period, or during the contract period.

The Standing Offer Authority will have the right to ask for additional information to verify the Offeror's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Standing Offer Authority will render the offer non-responsive, result in the setting aside of the Standing Offer or constitute a default under the Contract.

5.1 Certifications Required with the Offer

Offerors must submit the following duly completed certifications as part of their offer.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all offerors must provide with their offer, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to the Issuance of a Standing Offer and Additional Information

The certifications and additional information listed below should be submitted with the offer, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Standing Offer Authority will inform the Offeror 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 offer non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Offeror must provide the required documentation, as applicable, to be given further consideration in the procurement process.

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5.2.2 Federal Contractors Program for Employment Equity - Standing Offer Certification

By submitting an offer, the Offeror certifies that the Offeror, and any of the Offeror's members if the Offeror is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list) available at the bottom of the page of the [Employment and Social Development Canada-Labour's](https://www.canada.ca/en/employment-social-development/canada-labour/s) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#s4>).

Canada will have the right to declare an offer non-responsive, or to set-aside a Standing Offer, if the Offeror, or any member of the Offeror if the Offeror is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of issuing of a Standing Offer or during the period of the Standing Offer.

5.2.3 Additional Certifications Precedent to Issuance of a Standing Offer

5.2.3.1 OEM Certification

As part of the evaluation, Canada requires OEM Certifications for the laboratory caseworks being offer. If the Offeror is itself the OEM, it must provide the certification entitled "OEM Certification –Offeror is the OEM of Products Offered". If the Offeror is not the OEM, it must provide the certification entitled "OEM Certification – Offeror is not the OEM of Products Bid". If the Offeror is bidding products from multiple OEMs, a separate certification must be provided in respect of each OEM.

OEM Certification – Offeror is the OEM of Products Bid	
On behalf of the Offeror, I certify that the Offeror is itself the OEM of the products being offered in response to the Solicitation identified below.	
Solicitation Number	F1700-180005/A
Name of Offeror	
Signature of Offeror's Authorized Representative	
Name of Offeror's Authorized Representative	
Date Signed	
If this Certification is limited to specific products or specific services, please provide details	

Note for Joint Venture Offeror: Where one of the members of the joint venture is the OEM, then this certification is required to be signed by that member of the joint venture.

OEM Certification – Offeror is not the OEM of Products Bid	
The OEM identified below authorizes the Offeror named below to provide its products and provide warranty service in relation to those products under the Contract issued as a result of the Solicitation identified below.	
Name of OEM	
Address of OEM	
Name of OEM's Authorized Representative	
Title of OEM's Authorized Representative	
Telephone Number of OEM's Authorized Representative	
Fax Number of OEM's Authorized Representative	

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Signature of OEM's Authorized Representative	
Date Signed	
Solicitation Number	F1700-180005/A
Name of Offeror	
If this Certification is limited to specific products or specific services, please provide details	

Note for Joint Venture Offerors: Certifications made by the OEM must name (as the Offeror) ALL members of the joint venture Offeror that will be involved in delivering or servicing that OEM's equipment in the performance of the Work, or the joint venture itself must be named (if the joint venture has been given a name).

PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

6.1 Security Requirements

There is no security requirement applicable to the Standing Offer.

6.2 Financial Capability

SACC Manual clause [M9033T](#) (2011-05-16) Financial Capability

PART 7 - STANDING OFFER AND RESULTING CONTRACT CLAUSES

A. STANDING OFFER

Definitions and Interpretation

a) Definitions: In this Standing Offer, a capitalized term shall have the meaning attributed to that term in *General Conditions 2009 Standing Offers – Goods or Services – Authorized Users*, section 01, appended hereto as Annex G or, if not defined therein, and such term is defined in the Standing Offer or in any document forming part of the Standing Offer, that term shall have the meaning attributed to it in the document in which it is defined.

b) Other Interpretative Provisions, unless otherwise indicated:

1. all references to a designated "section" or other subdivision, or to an annex or appendix, are to the designated section or other subdivision of, or annex or appendix to the Standing Offer;
2. the words "herein", "hereof", "hereunder" and other words of similar import refer to the Standing Offer as a whole and not to any particular section or other subdivision of the Standing Offer;
3. the headings are for convenience only and do not form a part of the Standing Offer and are not intended to interpret, define or limit the scope, extent or intent of the Standing Offer or any of its provisions;
4. the singular of any term includes the plural, and vice versa, the use of any term is generally applicable to any gender and where applicable, a corporation, and the word "including" is not limiting whether or not non limiting language (such as "without limitation" or "but not limited to" or words of similar import) is used with reference thereto;
5. words importing persons include individuals, corporations, limited and unlimited liability companies, general and limited partnerships, associations, trusts, unincorporated organizations, and joint ventures;

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6. where a word is defined other forms of the word will have the corresponding meaning;

7. any reference to the Standing Offer or to any agreement, or other instrument in writing, or permit, licence or approval is a reference to such agreement or instrument, or permit, licence or approval as amended, modified or replaced from time to time;

8. any reference to a statute, regulation, rule, policy directive or other document listed in this Standing Offer means a reference to such item as it may be varied, amended, supplemented, replaced, enacted, re-enacted or extended from time to time; and

9. all dollar amounts refer to Canadian dollars.

Key Terms

Definitions

In this Standing Offer, unless the context otherwise requires,

“Authorized User”

Means a Federal Identified User and Provincial/Territorial Identified User, as specified in the Standing Offer, authorized to make call-ups against the Standing Offer.

“Federal Identified User”

Means any Federal Government Department, agency or Crown corporation listed in Schedules I, I.1, II, III, of the *Financial Administration Act*, R.S., 1985, c. F-11.

“Provincial/Territorial Identified User”

Means any Canadian province or territory including, as applicable, Municipal, Academic Institutions, Schools and Hospitals Sector (MASH), to whom the Minister of the Department of Public Works and Government Services can provide access to its procurement services and instruments. The MASH Sector can include regional, local, district or other forms of municipal government, school boards, publicly-funded academic, health and social service entities, as well as any corporation or entity owned or controlled by one or more of the preceding entities, which are identified in the Contract;

“General Information”

The Offeror will provide and deliver to Authorized Users the goods, services or combination of goods and services described in the Standing Offer, in accordance with the pricing set out in this Standing Offer if and when the Authorized User requests such goods, services or combination of goods and services in accordance with the conditions set out in the Standing Offer;

Principal – Agent Relationship

Canada is not acting as an agent for the Provincial/Territorial Identified User nor is the Provincial/Territorial Identified User a principal of Canada.

By submitting an Offer, the Offeror acknowledges that all responsibilities and liabilities associated with the issuance and management of the call-up by the “Provincial/Territorial Identified User” rest with that “Provincial/Territorial Identified User”.

Exclusionary Clause

By submitting an Offer, the Offeror agrees that it has no claim, action, cause of action or complaint whether in contract (express or implied), in negligence or other tort, in equity, under any statute or otherwise at law against Her Majesty the Queen in Right of Canada, and will be barred from bringing any such claim, action or complaint against Her Majesty the Queen in Right of Canada for any damages, compensation, costs, interests, loss, lost opportunity or injury, of any kind or nature, arising from the

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issuance of a call-up against a Standing Offer and its resulting contract where the call-up is issued by a Provincial/Territorial Identified User. The Offeror recognizes and agrees that by issuing a call-up, the Provincial/Territorial Identified User becomes the Contracting Authority and as such is responsible for any contractual issues, or any other issues related to individual call-ups made against the Standing Offer.

7.1 Offer

7.1.1 The Offeror offers to fulfill the requirement in accordance with the Statement of Requirement at Annex "A" and specifications at Annex "B".

7.2 Security Requirements

7.2.1 No Security Requirement Applicable

There is no security requirement applicable to the Standing Offer.

7.3 Standard Clauses and Conditions

All clauses and conditions identified in the Standing Offer and resulting contract(s) 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.

7.3.1 General Conditions

2009 (2018-07-16) General Conditions: Standing Offers – Goods or Services – Authorized Users, apply to and form part of the Standing Offer and are amended as follows:

The following section(s) from General Conditions 2009 apply to Federal Identified Users only:
Section 11 – Integrity Provisions

7.3.2 Standing Offers Reporting

The Offeror must compile and maintain records on its provision of goods and services to Canada under contracts resulting from the Standing Offer. This data must include all purchases done by Canada, including those acquired and paid for by Canada acquisition cards.

The Offeror must provide this data in accordance with the reporting requirements detailed below. If some data is not available, the reason must be indicated in the report. If no goods or services is provided during a given period, the Offeror must provide a "nil" report.

The data must be submitted electronically on a quarterly basis to the Standing Offer Authority.

The Quarterly reporting periods are defined as follows:

- 1st quarter: April 1 to June 30;
- 2nd quarter: July 1 to September 30;
- 3rd quarter: October 1 to December 31;
- 4th quarter: January 1 to March 31.

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The data must be submitted to the Standing Offer Authority no later than 15 calendar days after the end of the reporting period.

7.4 Term of Standing Offer

7.4.1 Period of the Standing Offer

The period for making call-ups against the Standing Offer is from _____ to _____.

7.4.2 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified at Annex "C" of the Standing Offer.

7.4.3 Delivery Requirement:

The Offeror must make the complete delivery within 30 calendar days from the effective date of the Call-up. Based on operational needs, Canada reserves the right to negotiate an actual delivery period.

7.5 Authorities

7.5.1 Standing Offer Authority

The Standing Offer Authority is:

Hilda Lee
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
219-800 Burrard Street
Vancouver, BC V6Z 0B9

Telephone: 604-764-6053
Facsimile: 604-775-7526
E-mail address: hilda.lee@pwgsc.gc.ca

The Standing Offer Authority is responsible for the management of the Standing Offer, (including any extensions, set asides or cancellations). Revisions or amendments to the Standing Offer shall only be authorized in writing by the Standing Offer Authority. The Offeror must not perform work in excess of or outside the scope of the Standing Offer based on verbal or written requests or instructions from anyone other than the Contracting Authority and any work so conducted shall be at the Offeror's sole risk and expense and shall not be charged to any Authorized User unless otherwise agreed to in writing by the Contracting Authority.

Contracting Authorities

If a call-up is issued by:

Federal Identified User:

The Standing Offer Authority is the Contracting Authority for Federal Identified User Call-ups and resulting Contracts.

Provincial/Territorial Identified User:

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The Provincial/Territorial Identified User that issues the Call-up is the Contracting Authority for that Call-up and resulting Contract.

7.5.2 Project Authority

The Project Authority for the Standing Offer is:

(Insert prior to SO award)

The Project Authority for each resulting contract will be identified in the Call-up issued by the Contracting Authority.

7.5.3 Offeror's Representative *(To be filled in as specified in the Offeror's Offer)*

Name of person to be contacted for:

	Name	Telephone	Facsimile	Email
Receipt, process and acknowledgment of Call-ups				
Delivery follow up/ Logistics				
Invoicing Enquiries				
General Enquiries				
Reports on usage of the Standing Offer				

7.6 Authorized Users

Federal Identified Users

The Federal Identified Users authorized to make call-ups against the Standing Offer include any government department, agency or Crown Corporation listed in Schedules I, I.1, II, III, of the ***Financial Administration Act***, R.S., 1985, c. F-11.

Provincial/Territorial Identified Users

The following Provincial/Territorial Identified Users are the only entities authorized to make call-ups against this Standing Offer.

(to be inserted)

Disclosure of information – Optional Users

“Optional Users” are MASH entities that have not been authorized by their respective provinces to issue Call-Ups under the Standing Offer.

“MASH entities” are municipal, academic institutions, schools and hospital sectors of a province. They can include regional, local, district or other forms of municipal government, school boards, publicly-funded academic, health and social service entities, as well as any corporation or entity owned or controlled by one or more of the preceding entities.

The Offeror acknowledges that MASH entities that have not been identified as Authorized Users of this Standing Offer (referred to hereinafter as “Optional Users”) may be interested in procuring for their own use the goods, services or both as described in this Standing Offer (referred to hereinafter as “Deliverables”).

In the event that an Optional User contacts the Offeror to purchase some of all of the Deliverables (referred to hereinafter as a “Request”), the Offeror will enter into negotiations with such Optional User. As part of the negotiations, the Offeror will: a) disclose to the Optional User its unit and rate pricing as set out in the Standing Offer, b) disclose all of the other terms and conditions thereof, and c) as necessary, use commercially reasonable efforts to negotiate with the Optional User a separate agreement for the supply of the Deliverables (referred to hereinafter as “Separate Agreement”).

The Offeror will be responsible for its own contract administration with the Optional User. It will not redirect any contract issues to Canada that may arise with the Optional User. Those contract issues include, but are not limited to, contract negotiations, contract administration and contract performance.

The Offeror will have no power to bind Canada, to create a partnership, a joint venture or an agency between Canada and the Offeror. The Contractor Offeror must not represent itself as an agent or representative of Canada to the Optional User.

Canada will not be, or be deemed to be, a party to any Separate Agreement, or a guarantor of any obligations or liability of any party under any Separate Agreement. For greater certainty, Canada will not be responsible or liable to the Offeror for any costs, obligation or liability for any matter arising under, or in connection with, any Separate Agreement.

Canada makes no representation, assurance, warranty or guarantee that an Optional User will make a Request or that it will enter into a Separate Agreement with the Offeror.

7.7 Call-up Procedures

As more than one standing offer is expected to be awarded for this requirement, Canada will use the following approach to select an offeror:

An offeror will be selected based on which offeror is farthest away from their predetermined maximum percentage distribution, therefore ensuring that work is evenly distributed as identified to the offerors in the standing offers. In the case where insufficient funds remain in an offeror's standing offer to complete a proposed Call-up, the offeror next farthest away from their % distribution, and with enough funds remaining, will be selected for the work.

Example:

Offeror 1 has a Standing Offer with an identified proportion of \$2,400,000;

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Offeror 1 has been issued Call-ups totalling \$800,000;
Offeror 2 has a Standing Offer with an identified proportion of \$1,200,000;
Offeror 2 has been issued Call-ups totalling \$500,000,
Offeror 3 has a Standing Offer with an identified proportion of \$400,000;
Offeror 3 has been issued Call-ups \$50,000

Offeror 1: $\$800,000/\$2,400,000 = 0.333$

Offeror 2: $\$500,000/\$1,200,000 = 0.417$

Offeror 3: $\$50,000/\$400,000 = 0.125$

In this case, Offeror 3's accumulated usage is only 12.5%, and Offeror 3 will be recommended for the next call-up award.

The recommended offeror may be bypassed for a call-up for any of the following reasons:

- a) If the recommended offeror confirms in writing that it is unable to perform the call-up at the delivery required; and
- b) If the offeror has not met the previous commitment(s) under a call-up, Canada reserves the right to bypass an offeror until the previous commitment(s) have been fulfilled. For example, the offeror did not meet the agreed call-up delivery date. Canada also reserves the right to cancel the call-up and issue the call-up to the next recommended offeror.

The amounts of all call-ups issued will be tracked by both the Project Authority and by the Contracting Authority.

7.8 Call-up Instrument

7.8.1 Federal Identified User

The Work will be authorized or confirmed by the Federal Identified User(s) using the duly completed forms, as listed below in paragraph 2, or their equivalents in accordance with paragraph 3 below, or by using Canada acquisition cards (Visa or MasterCard) for low dollar value requirements.

1. Call-ups must be made by Federal Identified Users' authorized representatives under the Standing Offer must be for goods or services or combination of goods and services included in the Standing Offer at the prices and in accordance with the terms and conditions specified in the Standing Offer.
2. Any of the following forms could be used which are available through [PWGSC Forms Catalogue](#) website:
 - PWGSC-TPSGC 942 Call-up Against a Standing Offer
 - PWGSC-TPGSC 942-2 Call-up Against a Standing Offer - Multiple Delivery
 - PWGSC-TPSGC 944 Call-up Against Multiple Standing Offers (English version)
 - PWGSC-TPSGC 945 Commande subséquente à plusieurs offres à commandes (French version)
3. Where an equivalent form or electronic call-up document is used, it must contain at a minimum the following information:

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- standing offer number;
- statement that incorporates the terms and conditions of the Standing Offer, and acceptance of those terms;
- description and unit price for each line item;
- total value of the call-up;
- point of delivery;
- confirmation of the Federal Identified User's authority to enter in to a Contract; and
- acceptance of the terms and conditions of the Standing Offer.
- confirmation that funds are available under section 32 of the Financial Administration Act
- allows for collection of the data identified at Annex "B" – Standing Offer Reporting, Article B1, Collection of Data

7.8.2 Provincial/Territorial Identified User

For Call-ups issued by a Provincial/Territorial Identified User, the Work will be authorized using the GC 942-3, Call-Up against a Standing Offer (FPT) form. An electronic sample is attached at Annex "E" – Forms. This form is available through the [PWGSC Forms Catalogue](#) Web site.

Or an equivalent form of electronic call-up document which at a minimum:

- identifies the Standing Offer number;
- identifies the total value of the Call-up;
- includes the unit price for each item on the Call-up;
- identifies a point of delivery;
- includes acceptance of the terms and conditions of the Standing Offer;

Call-ups against the Standing Offer paid for with an acquisition card (credit card) at point of sale must be accorded the same prices and conditions as any other Call-up. Call-ups must be made from authorized representatives of identified users of a province or territory in the standing offer. These must be goods or services or a combination of goods and services included in the standing offer, in accordance with the prices and terms specified therein

7.9 Limitation of Call-ups

Individual call-ups issued by the Department of Fisheries and Oceans, against the Standing Offer must not exceed \$25,000.00* (Applicable Taxes included).

Individual call-ups against the Standing Offer exceeding \$25,000.00* must be issued by Public Works and Government Services Canada Contracting Authority.

*Subject to change if the threshold of delegated authority for DFO Regional Office(s) be increased.

Provincial/Territorial Identified User

If a financial limitation applies to a call-up issued by a Provincial/Territorial Identified User, whether that financial limitation applies to an individual basis for each call-up or in the aggregate for all call-ups issued, that financial limitation must be provided by the Provincial/Territorial Identified User issuing the call-up. Where such financial limit is provided to the Offeror by the Contracting Authority of the

Provincial/Territorial Identified User then the Offeror shall not accept any Call-up against the Standing Offer which would exceed such financial limitation unless the Contracting Authority has specifically identified that it may do so in writing.

7.10 Financial Limitation

The total cost to Canada resulting from call ups against the Standing Offer must not exceed the sum of \$_____ (Applicable Taxes excluded) unless otherwise authorized in writing by the Standing Offer Authority. The Offeror must not perform any work or services or supply any articles in response to call ups which would cause the total cost to Canada to exceed the said sum, unless an increase is so authorized.

The Offeror must notify the Standing Offer Authority as to the adequacy of this sum when 75 percent of this amount has been committed, or three months before the expiry date of the Standing Offer, whichever comes first. However, if at any time, the Offeror considers that the said sum may be exceeded, the Offeror must promptly notify the Standing Offer Authority.

7.11 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 call up against the Standing Offer, including any annexes;
- b) the articles of the Standing Offer;
- c) the general conditions 2009 (2018-07-16), General Conditions - Standing Offers - Goods or Services – Authorized Users;
- d) the general conditions 2015A (2018-07-16) Goods – Authorized Users (Medium Complexity);
- e) Annex A, Statement of Requirement;
- f) Annex B, Specifications
- g) Annex C, Basis of Payment;
- h) the Offeror's offer dated _____ (*insert date of offer*), (*if the offer was clarified or amended, insert at the time of issuance of the offer. "as clarified on _____" or "as amended on _____" and insert date(s) of clarification(s) or amendment(s) if applicable.*)

7.12 Certifications and Additional Information

7.12.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Offeror with its offer or precedent to issuance of the Standing Offer (SO), and the ongoing cooperation in providing additional information are conditions of issuance of the SO and failure to comply will constitute the Offeror in default. Certifications are subject to verification by Canada during the entire period of the SO and of any resulting contract that would continue beyond the period of the SO.

7.13 Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in British Columbia.

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7.14 Transition to an e-Procurement Solution (EPS)

During the period of the Standing Offer, Canada may transition to an EPS for more efficient processing and management of individual call-ups for any or all of the SO's applicable goods and services. Canada reserves the right, at its sole discretion, to make the use of the new e-procurement solution mandatory.

Canada agrees to provide the Offeror with at least a three-month notice to allow for any measures necessary for the integration of the Offer into the EPS. The notice will include a detailed information package indicating the requirements, as well as any applicable guidance and support.

If the Offeror chooses not to offer their goods or services through the e-procurement solution, the Standing Offer may be set aside by Canada.

B. RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from a call-up against the Standing Offer.

7.1 Statement of Requirement

The Contractor must provide the items detailed in the call-up against the Standing Offer.

Definitions and Interpretation

Definitions. In this Contract, a capitalized term shall have the meaning attributed to that term in General Conditions 2015A – Goods (Medium Complexity) – Authorized User as amended, section 01, appended hereto as Annex X or, if not defined therein, and such term is defined in the Standing Offer or in any document forming part of the Standing Offer, that term shall have the meaning attributed to it in the document in which it is defined.

Other Interpretive Provisions. In the Contract unless otherwise indicated:

1. all references to a designated "section" or other subdivision, or to an appendix or annex, are to the designated section or other subdivision of, or appendix or annex to, the Contract;
2. the words "herein", "hereof", "hereunder" and other words of similar import refer to the Contract as a whole and not to any particular section or other subdivision of the Contract;
3. the headings are for convenience only and do not form a part of the Contract and are not intended to interpret, define or limit the scope, extent or intent of the Contract or any of its provisions;
4. the singular of any term includes the plural, and vice versa, the use of any term is generally applicable to any gender and where applicable, a corporation, and the word "including" is not limiting whether or not non limiting language (such as "without limitation" or "but not limited to" or words of similar import) is used with reference thereto;
5. words importing persons include individuals, corporations, limited and unlimited liability companies, general and limited partnerships, associations, trusts, unincorporated organizations, and joint ventures;
6. where a word is defined other forms of the word will have the corresponding meaning;
7. any reference to any agreement (including the Standing Offer or Contract), or other instrument in writing, or permit, licence or approval is a reference to such agreement or instrument, or permit, licence or approval as amended, modified or replaced from time to time;

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8. any reference to a statute, regulation, rule, policy directive or other document listed in this Contract means a reference to such item as it may be varied, amended, supplemented, replaced, enacted, re-enacted or extended from time to time;
 9. all references to day or days, other than Working Days, means calendar days; and
 10. all dollar amounts refer to Canadian dollars.

7.2 Standard Clauses and Conditions

7.2.1 General Conditions

[2015A \(2018-07-16\)](#), General Conditions - Goods – Authorized Users (Medium Complexity) apply to and form part of the Contract.

The following sections of 2015A apply to Federal Identified Users only:

Section 27 – Contingency Fees

Section 29 – Integrity Provisions – Contract

Section 31 – Code of Conduct for Procurement contract

7.3 Term of Contract

7.3.1 Delivery Date

Delivery must be completed in accordance with the call-up against the Standing Offer.

7.3.2 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the call-up against the Standing Offer and delivered to the locations below.

Delivered Duty Paid (DDP) DFO (see below delivery locations) Incoterms 2000 for shipments from a commercial offeror.

Delivery locations:

Pacific Science Enterprise Centre
4160 Marine Drive
West Vancouver, BC V7C 1N6

Cultus Lake Salmon Research Lab
4222 Columbia Valley Highway
Cultus Lake, BC V2R 5B6

Institute of Ocean Sciences
9860 West Saanich Road
P.O. Box 6000
Sidney, BC V8L 4B2

Pacific Biological Station

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3190 Hammond Bay Road
Nanaimo, BC V9T 6N7

7.4 Payment

7.4.1 Basis of Payment - Firm Unit Prices

In consideration of the Offeror satisfactorily completing all of its obligations under the Contract, the Offeror will be paid firm unit prices as specified in Annex C for a cost of \$_____ (*the amount of call-up*). Customs duties are included and Applicable Taxes are extra.

Canada will not pay the Offeror 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

7.4.2 Limitation of Price

SACC *Manual* clause C6000C (2017-08-17) Limitation of Price

7.4.3 Single Payment

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

7.4.4 Prepaid Transportation Costs (applies if DFO requests shipment to a location other than the following locations:

Cultus Lake Laboratory (Cultus Lake)
Institute of Ocean Sciences (Sidney BC)
Pacific Science Enterprise Centre (West Vancouver)
Pacific Biological Station (Nanaimo)

The Offeror must prepay transportation costs. Prepaid transportation costs must be shown as a separate item on the invoice, supported by a certified copy of the prepaid transportation bill of lading.

7.4.5 Electronic Payment of Invoices – Call-up

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

7.5 Invoicing Instructions

1. The Offeror 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.
2. Invoices must be distributed as follows:

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1. The original and one (1) copy must be forwarded to the address shown on page 1 of the Standing Offer for certification and payment.
 2. One (1) copy must be forwarded to the Standing Offer Authority identified under the section entitled "Authorities" of the Standing Offer.

7.6 Insurance

SACC Manual clause G1005C (2016-01-28) Insurance – No Specific Requirement

7.7 SACC Manual Clauses

B7500C (2006-06-16) Excess Goods

A9039C (2008-05-12) Salvage

B9028C (2007-05-25) Access to Facilities and Equipment

ANNEX "A"

STATEMENT OF REQUIREMENT

REQUIREMENT

The Department of Fisheries and Oceans has a requirement for the purchase and installation of single or multiple modular laboratory casework systems which could include, but not limited to replace existing benchtops and casework and reconfiguration of laboratory room layouts.

The Department of Fisheries and Oceans conducts research related to marine and freshwater aquatic systems. The scientific work involves laboratories that are exposed to regular use of saltwater, acids and some laboratories also use highly corrosive acids like perchloric acids.

The annexure A provides guidelines to the Offeror for procurement and installation of reconfiguration /renovation projects for laboratory spaces for Department of Fisheries and Oceans. The Offeror shall provide laboratory casework for laboratories that will meet the needs of the testing requirements and functions of the laboratories. The laboratory casework specification is for suspended and movable systems that will support shelving and casework and will not rely on the building wall structure for support

A) SCOPE

In absence of layout drawings in the RFSO, Offerors will refer to the selection matrix in Annex A to provide a fully functional laboratory casework systems that meets the specifications as outlined under Annex B.

Responsibilities will also include, but are not limited to the following tasks

- 1) Review layout if available
- 2) Perform site to assess and review requirements for space and service connections.
- 3) Offerors /Installers to review site conditions including reviewing seismic restraints, mechanical and electrical service tap off points and mechanical and engineering drawings as applicable.
- 4) Submit submittals per requirements based on site reviewed dimensions.
- 5) Secure approval of layout submittals
- 6) Provide modular laboratory casework systems
- 7) Install Laboratory casework and benchtops
- 8) Repair damaged materials. All finishes must match adjacent surfaces.
- 9) Provide a suitable covering over countertop and casework surfaces to prevent marring of surface due to impact, or staining due to corrosive materials; tape to underside of countertop. Protect installed laboratory casework, counter top and fittings from damage by work of other trades until date of Substantial Completion and before installation has been approved.
- 10) Temporary signage may be required.
- 11) Maintain work area at a broom cleaned condition during installation. Installed items and the work area are to be kept free of waste. All spills are required to be cleaned up immediately and disposed.
- 12) Remove trash and waste disposal of packaging or protection of the delivered casework or generated during the installation.

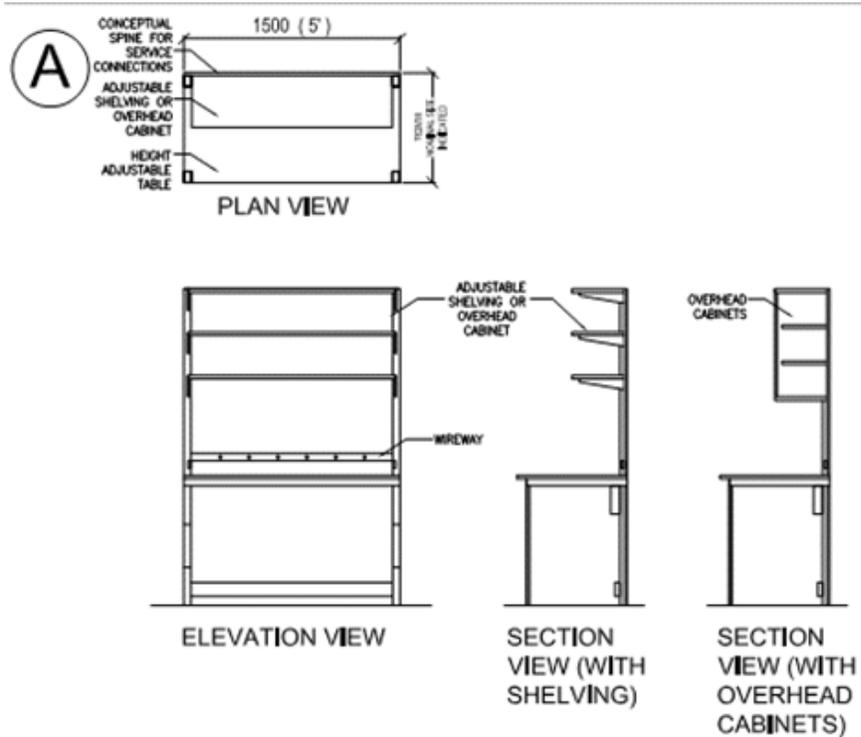
- 13) Must provide dust control measures, such as plastic covers, vacuum, etc., as needed for the working area.
- 14) Must provide a representative to act as a Project Authority for the Work being carried out under the contract. The Project Authority will be the point of contact on all matters concerning the scope of work including but not limited to, consultations and finalization of laboratory casework design, installation scheduling, and on-site close out meetings.
- 15) Repair or remove and replace defective work as directed upon completion of installation.

B) SUBMITTAL REQUIREMENTS FOR LABORATORY CASEWORK FIT-OUT

For each call up and in the absence of a layout, Offeror will prepare laboratory layout showing casework, countertop with laboratory accessories. Casework installation vendors and Offerors shall provide layouts showing laboratory casework elements based on Project Authority's requirement. For each call up, the selection of space modules, laboratory casework, countertops, modular storages and accessories will be provided through TABLE 2. Prior to developing layouts, Installers are required to visit the site to gather owner requirements or refer to specific drawings if available in the RFP.

The typical modules sizes are as below

- A) Laboratory casework with countertop with base cabinets and overhead storage/shelving of nominal sizes 1500 mm X 840 mm (5'-0" X 2'-9")



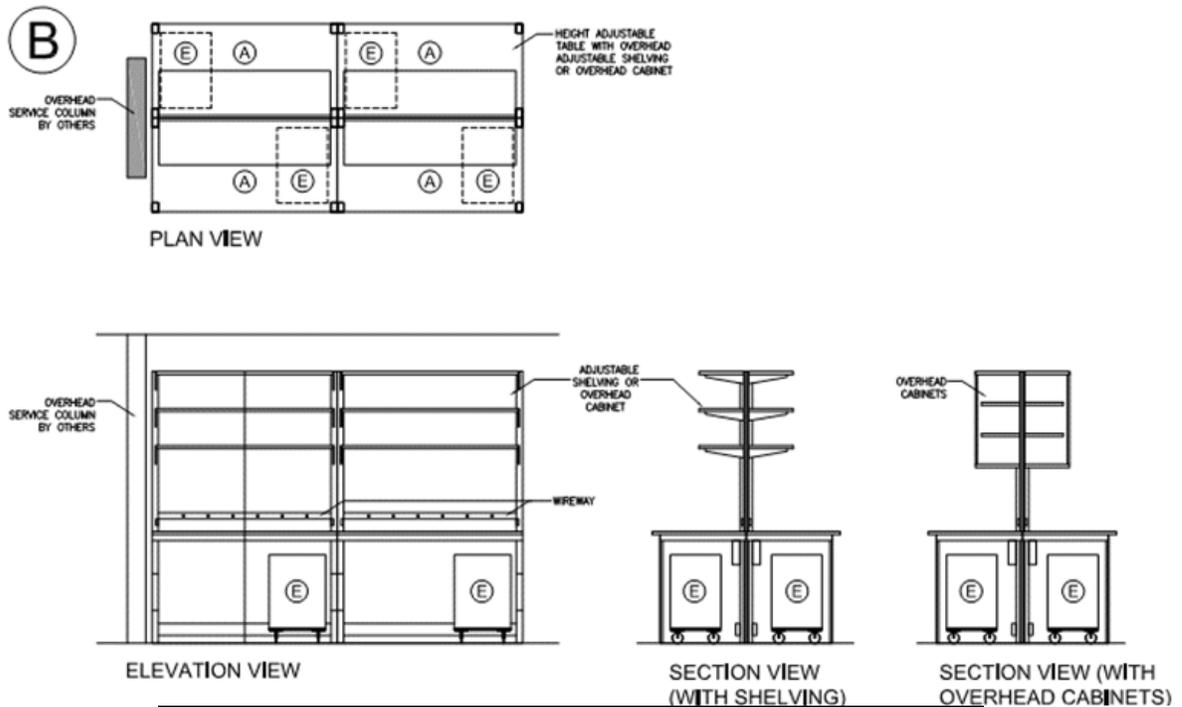
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CONCEPTUAL SPINE FOR SERVICE CONNECTIONS
ADJUSTABLE SHELVING OR OVERHEAD CABINET
HEIGHT ADJUSTABLE TABLE
PLAN VIEW
ELEVATION VIEW
WIREWAY
OVERHEAD CABINETS
SECTION VIEW (WITH SHELVING)
SECTION VIEW (WITH OVERHEAD CABINETS)

B) Island Laboratory arrangement with casework, countertop, base cabinets and overhead shelving/ storage with Nominal sizes 1500 mm X 3000 mm (5'-6 X 10'-0")



OVERHEAD SERVICE COLUMN BY OTHERS
PLAN VIEW
HEIGHT ADJUSTABLE TABLE WITH OVERHEAD ADJUSTABLE SHELVING OR OVERHEAD CABINET
OVERHEAD SERVICE COLUMN BY OTHERS
ELEVATION VIEW
ADJUSTABLE SHELVING OR OVERHEAD CABINET
WIREWAY

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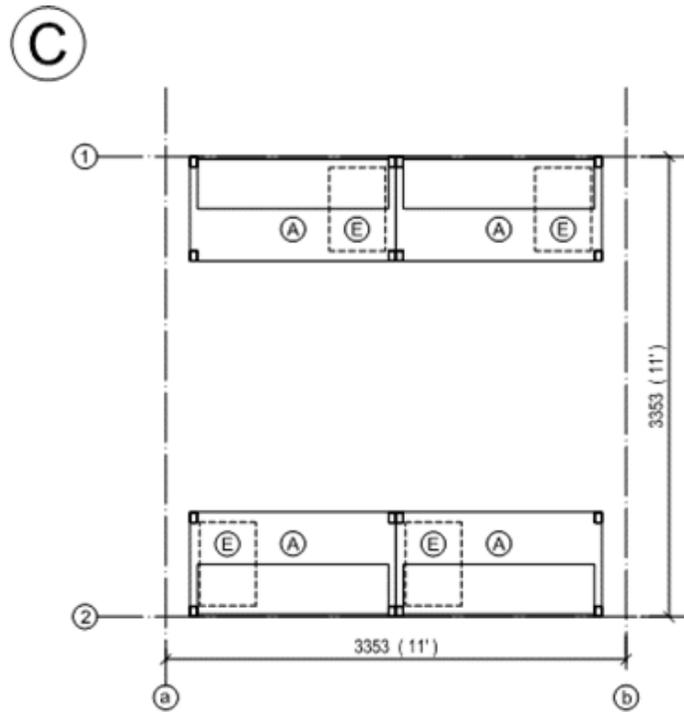
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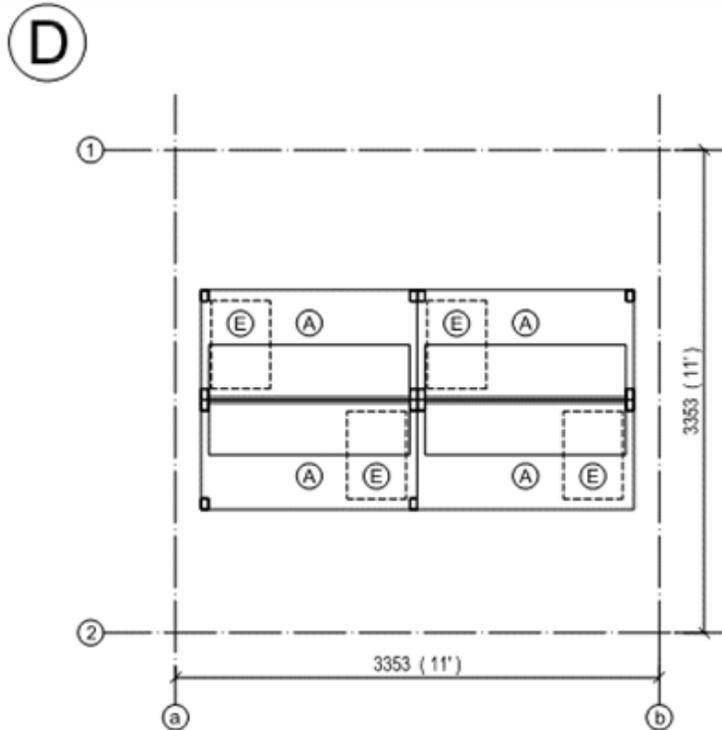
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SECTION VIEW (WITH SHELVING)
SECTION VIEW (WITH OVERHEAD CABINETS)
OVERHEAD CABINETS

- C) 1 x Laboratory module of 3.35m (11'-0") X 3.35m (11'-0") using module sizes (A) on either side of a central isle



- D) 1 x Laboratory module of 3.35m (11'-0") X 3.35m (11'-0") using module sizes (B) in an island arrangement



The typical storage modules sizes are as shown using the diagrams E, F G, H. Please note that for the Standing Offer Offerors and Installers are provided TABLE -2 for information only.

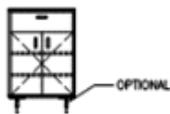
E) Modular casework cabinet

F) Modular storage shelving

NOMINAL SIZES IN INCHES

NOMINAL SIZES IN INCHES

E



ELEVATION VIEW
 UNDERCOUNTER
 CABINET

F



ELEVATION VIEW
 UNDERCOUNTER
 STORAGE SHELVING

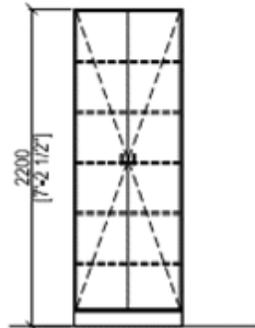
OPTIONAL
ELEVATION VIEW UNDERCOUNTER CABINET
ELEVATION VIEW UNDERCOUNTER STORAGE SHELVING

G)	Modular Tall cabinet	H)	Modular Tall shelving
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NOMINAL SIZES IN INCHES

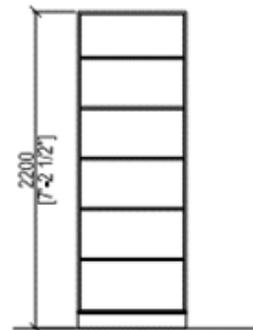
NOMINAL SIZES IN INCHES

Ⓒ



ELEVATION VIEW
 TALL CABINET
 WITH GLASS DOOR

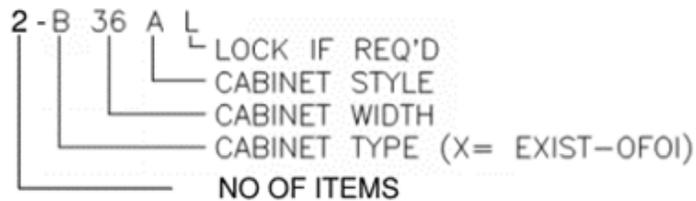
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ELEVATION VIEW
 TALL CABINET WITH
 SHELVING

ELEVATION VIEW TALL CABINET WITH GLASSE DOOR
ELEVATION VIEW TALL CABINET WITH SHELVING

TABLE 1 : USE THE FOLLOWING DESIGNATION IN THE TABLE BELOW TO IDENTIFY THE TYPE OF CABINET STORAGE REQUIRED (CABINET WIDTH IS NOMINAL IN INCHES)



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CABINET STYLE

MOBILE	A
HUNG	B
FREESTANDING	C

LOCK IF REQ'D
CABINET STYLE
CABINET WIDTH
CABINET TYPE (X=EXIST-OFOI)
NO OF ITEMS

TABLE 2 : LABORATORY CASEWORK, COUNTERTOP AND LABORATORY ACCESSORIES SELECTION MATRIX							
REFERENCE FROM ANNEX B		MODULE SELECTION					
		A	B	C			
2.1	CASEWORK ELEMENTS						
	METAL LABORATORY CASEWORK						
B 13	WITH UPPER CABINETS						
B 14	WITH ADJUSTABLE SHELVING						
2.2	CASEWORK SUPPORT SYSTEM						
A	METAL CASEWORK SUPPORT SYSTEM					TABLE FRAME SYSTEM WITH FLEXIBLE SERVICE CONNECTIONS	
B	C-FRAME SUSPENDED CASEWORK SYSTEM					C-FRAME SUPPORT FOR ADAPTABLE CASEWORK	
2.3	POLYPROPYLENE CASEWORK						
G	WORKSURFACE (TOP)						
J	GLASSWARE DRYING RACKS					OPTIONAL FOR SINK LOCATIONS	
2.4	TABLES						
A	TABLE-BASED METAL LABORATORY CASEWORK						
B	ANTI VIBRATION TABLE					OPTIONAL FOR SELECTED LOCATION	
C	FREE-STANDING WORKSTATION						
2.5	LABORATORY COUNTERTOPS						
A	CAST EPOXY RESIN TOPS						
B	STAINLESS STEEL TOPS						
2.6	MODULAR STORAGE SYSTEMS	CABINET STORAGE ²					
A	MOBILE BASE CABINETS/BASE CABINETS					E-36-A ¹	
B	TALL CABINET (WITH SHELVES)					H-36-C ¹	
B	TALL CABINET (WITH GLASS DOORS AND SHELVES)					G-36-C ¹	
C	METAL FLAMMABLE LIQUID STORAGE CABINETS					E-36-C-L ¹	
D	VENTILATED CORROSIVE STORAGE					G-36-C-L ¹	

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2.7	CABINETS						
	LABORATORY ACCESSORIES						
A	SINKS						SINKS TO BE INSTALLED IN SINK CABINET
B	CAST EPOXY RESIN SINKS						SINKS TO BE INSTALLED IN SINK CABINET
C	STAINLESS STEEL SINKS						SINKS TO BE INSTALLED IN SINK CABINET
D	PEGBOARD						OPTIONAL FOR SINK LOCATION

¹ EXAMPLE SHOWN IN TABLE. OPTIONAL ITEM SELECTED FROM MANUFACTURER'S

STANDARD RANGE OF SIZES

² COLUMN TO BE COMPLETED USING NOMENCLATURE SHOWN IN TABLE 1 -

e.g. 4-C-24-A-L

Y YES
 N NO
 NA NOT APPLICABLE

ANNEX "B"

SPECIFICATIONS

PART 1 - GENERAL

A) SUMMARY

1. Furnish and install work under this section including but not limited to the following
 - a. Laboratory support system, tables frames, laboratory countertops, laboratory casework, laboratory accessories, laboratory storages.
 - b. Furnishing and installation of Laboratory Fume Hoods to be supplied through separate contract or reused from existing laboratory equipment.
 - c. Furnishing and installation of Flammable Liquid Storage Cabinets
 - d. Furnishing and installation of Vented Corrosive Cabinets
2. The following related scope from the mechanical and electrical sections to be completed by a separate mechanical and electrical contractor. Please coordinate casework and furnishing installation with the help of the Designated Project Authority.
 - 1) Re-routing or complete service connections per the mechanical and electrical specifications.
 - 2) Furnishing and installation of piping, drain line, traps, final connections and setting of sinks and fixtures.
 - 3) Furnishing and installation of electrical wiring, conduit and/or electrical items and final connections.
 - 4) Furnishing and installation of exhaust ductwork, transition(s), blowers and equipment, and final connection to fume hood(s), vented corrosive cabinets.

B) SUBMITTALS

1. Product data including C- Qualification Data, D- Shop drawings, E- Quality assurance Data and H- Warranty Information for each type of specified product.
2. Submit for record product test reports from and based on tests performed by a qualified independent testing laboratory evidencing compliance of laboratory casework top finishes with requirements specified for chemical and physical resistance as specified.

C) Qualification Data: Submit for record installers or firms specified to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of Designated Project Authorities, and other information specified.

D) Shop drawings for laboratory casework, casework support systems, and laboratory casework tops, modular storages, laboratory accessories showing plan layout, location and type of service fittings.

1. Submit shop drawings as one complete submittal that includes all items specified in this section. Submittals that include only part of the specified items of this section are not acceptable and will be rejected.
2. Include details and location of anchorages and fitting walls and base, including required blocking or back blocking.
3. Include layout of units with relation to surrounding walls, doors, windows, and other building components.
4. Coordinate shop drawings with other work involved.
5. Include manufacturer's recommendations for blocking and securing of laboratory casework tops.
6. Sample units will be used to demonstrate aesthetic effects as well as other qualities of materials and execution. Sample units may not be incorporated in work.

E) QUALITY ASSURANCE

1. The work of this technical specification section and related Contract Documents shall conform to Quality Requirements as per Department of Fisheries and Oceans. The QA requirements shall apply to, but shall not be limited to the work indicated in the standards and qualifications of this section and for Code mandated Special Inspections as required.
2. Single Source Responsibility: Provide laboratory casework tops manufactured or furnished by same laboratory Furniture Company for single responsibility. Provide specified laboratory items by company with minimum of 10 years' experience in the manufacture of laboratory casework, laboratory countertops, accessories and modular storage units of the type specified for this project.
3. Installer: Installer of laboratory casework tops shall be trained and certified by the manufacturer of the casework.
4. Testing Laboratory Qualifications: To qualify for acceptance, an independent testing laboratory must demonstrate to Designated Project Authority's satisfaction, based on evaluation of laboratory-submitted criteria conforming to ASTM E 699, that it has the experience and capability to conduct satisfactorily the testing indicated.

F) DELIVERY, STORAGE, AND HANDLING

1. Deliver laboratory casework, laboratory casework tops and laboratory elements only after building is enclosed, weathertight, and wet operations in building are completed.
2. Protect finished surfaces from soiling and damage during handling and installation. Cover with polyethylene film or other protective covering.

G) PROJECT CONDITIONS

1. Environmental Limitations: Do not install casework tops until HVAC system is operating and will maintain temperature and relative humidity at occupancy levels during the period of installation to ensure no damage to the countertops.
2. Coordinate installation of casework tops with Designated Project Authority to determine whether adjacent construction, especially floor, wall, and ceiling finishes, is at a stage of completion permitting the installation of casework.

H) WARRANTY

1. Project Warranty: Submit a written warranty for 5 years after the date of Completion, executed by the manufacturer, agreeing to repair or replace laboratory casework that fails in materials or workmanship within the specified warranty period. This warranty shall be in addition to and not a limitation of other rights the Designated Project Authority may have against the Contractor under the Contract Documents.

PART 2 - PRODUCTS

2.1 METAL LABORATORY CASEWORK

Metal laboratory casework including, but not limited to, items listed under the following list

- 2.4 Tables – A – Table-based metal laboratory casework,
- 2.4 Tables - B - Anti-vibration tables,
- 2.4 Tables - C - Free-standing (adjustable height table frames with work surfaces),
- 2.6 Modular Storage Systems- A Mobile base cabinets, Appendix A (E) or (F)
- 2.6 Modular Storage Systems- B Tall Cabinets: Floor-Mounted.
- 2.6 Modular Storage Systems -C Metal Flammable Liquid Storage Cabinets
- 2.6 Modular Storage Systems- D Ventilated Corrosive Storage Cabinets,

A) MATERIAL

1. A standard integrated system that consists of a core and panel support structure must be provided with the following:

2. Core structure must be supported by structural leg frames.
3. Components must be suitable for single faced wall conditions or double faced peninsula conditions on the Casework System Frame.
4. All core assemblies must have removable panels on all sides.
5. The system support framing must accommodate suspended overhead modular cabinets or shelves.
 - a. Steel Sheet: Prime furniture steel, stretcher or roller leveled, free of scales, buckles, or other defects impairing strength, durability, or appearance; ASTM A 366, Class 1 (matte) finish.
 - b. Stainless-Steel Sheet: ASTM A 167, Type 302 or 304, stretcher leveled, free of scales, buckles, or other defects impairing strength, durability, or appearance; polished after fabrication to produce an AISI No. 4 finish.
6. Minimum Metal Thickness: Provide steel laboratory casework components of following minimum thickness, expressed in mm. Manufacturers proposing substitutions for the material thickness listed below shall submit warranty of equivalent performance for the Designated Project Authority's review.
 - a. 0.91mm (0.036") 19 gauge thick:
 - 1) Back panels.
 - 2) Inner door panels.
 - 3) One-piece drawer body and drawer front.
 - 4) Shelves; add hat channel reinforcement or use 1.30 mm (0.0516") 16 gauge thick material for shelves over 914mm (36") long.
 - b. 1.30 mm (0.0516") 16 gauge thick:
 - 1) Sides, ends, and fixed backs.
 - 2) Bottoms, tops, and soffits.
 - 3) Door fronts.
 - 4) Base.
 - 5) Filler panels.
 - 6) Items not otherwise noted.
 - c. 1.60 mm (0.0635") 14 gauge thick:
 - 1) Top front rails and intermediate horizontal rails.
 - 2) Center posts.
 - 3) Top gussets.
 - d. 1.99 mm (0.0785") 12 gauge thick:
 - 1) Front corner reinforcement (4 corners).
 - 2) Top back rail.
 - 3) Drawer suspension.
 - 4) Sink supports
 - 5) Hinge reinforcements.
 - e. 2.75 mm (0.1084") thick: Leveling and corner gussets.
 - f. Glass for Glazed Doors: 4.76 mm (3/16") clear float tempered.

B) FABRICATION

1. General: Complete assembly and finishing at point of manufacture. Perform unit assembly on precision jigs to provide units which are square; fully reinforced with angles, gussets, and channels; integrally framed and welded to form a dirt and vermin- retardant enclosure. Grind exposed welds smooth. Where applicable, reinforce base cabinets for sink support. Maintain uniform clearance around door and drawer fronts of between 1.58 mm (1/16") minimum to 2.38 mm (3/32") maximum.

2. Fabricate units to permit interchangeability of drawers, hinged doors, and similar pieces of like sizes.
3. Case Construction: Fabricate case with removable back panel and end panels internally reinforced at front and rear with channels that have shelf clip adjustment holes spaced at 12.7mm (1/2") o.c.; front of end panel formed into post for attachment of hinges and shelf clips.
 - a. Removable Back Panel: One-piece panel, formed on four sides for rigidity and screwed in place; full height between top back rail and case bottom and full width between end panels or between end panel and intermediate back vertical post.
 - b. Case Bottom: One-piece case bottom and horizontal front rail with case bottom turned up and radiused at sides and rear for ease of cleaning. Horizontal front rail formed with rabbeted offset. Lower corner reinforcing gusset with 63.5 mm (2-1/2") high leveling bolt at all four corners for base cabinets.

Leveling Access: Provide bolt access hole with sealed removable plug button in case bottom or access hole in toe base.
 - c. Top Rail: Interlock and overlap end panels. Form with rabbeted offset.
 - d. Intermediate Horizontal Rails (Base Cabinets): Required for recessed and concealed locks.
 - e. Provide anti-tipping hardware for mobile base cabinet.
 - f. Fabricate cabinets without center posts to permit complete access to interior.
4. Acoustical Lining: Acceptable manufacturer's nonabsorbent lining.
5. Wall Cases: Form ends and back as one-piece, wrap-around design with rear internal reinforcing channels that incorporate shelf clip adjustment holes; fabricate with recess at back to accommodate mounting brackets; form case to conceal mounting brackets or furnish filler strips for the purpose; fabricate with double bottom assembly using finished soffit piece to conceal bottom of case.
6. Flush Doors: Double wall construction; outer and inner pans formed and telescoped into box formation, with welded hat channel reinforcement full height on center of each pan. Fill doors solid with fire-resistant, sound-deadening material. Inner pan formation of door shall be indented for in-field installation of locks when required. Paint interior surfaces before assembly.
7. Hinges: Attach 5-knuckle hinges, semi-concealed or concealed with screws to 1.99 mm (0.0785") thick tapped reinforcement strips, welded to inside of inner pan and to case.
8. Framed Glazed Doors: Double wall construction; outer head shall be one piece construction; inner head shall consist of top, bottom and side framing members which are removable for installation and replacement of glass. Provide continuous neoprene glazing retainer to receive glass.
9. Unframed Sliding Glass Doors: Glass with edges ground set in extruded aluminum shoe with integral pulls, wheel assemblies and top and bottom extruded aluminum track; provide rubber bumpers at fully opened and closed door position.
10. Sliding Doors (Solid and Framed Glazed): Suspended from nylon-tired cadmium-plated sleeve bearing rollers in formed steel top mounted track. Removal of bottom guide permits tilt-out removal of door.
11. For doors riding on bottom track, provide two adjustable ball bearing traction devices at top of each door to prevent door from riding off track.
12. Drawers: Assemble fronts from telescoping inner and outer pans, designed to eliminate raw edge of steel at top. Fabricate sides, back, and bottom of one piece with fully covered 6.35 mm (1/4") minimum radius inside corners (front, back, and both sides vertically and horizontally), with rolled or formed top of sides for stiffening and comfortable grasp for drawer removal. Weld drawer front to sides, and bottom to form a single, integral unit. Provide drawers with rubber bumpers, runners and positive stops to prevent metal-to-metal contact or accidental removal. Provide fire-resistant, sound-deadening material between inner and outer pans. Paint interior surfaces before assembly.
13. Upper Cabinet Construction:
 - a. Upper cabinets shall have a completely finished interior same as exterior and shall be designed so that no mounting hardware is visible when installed.
 - b. End uprights shall be formed at front, bottom and back to provide maximum strength and rigidity. Front edge of end upright shall be 3/4" wide. A pilaster shall be added to the inside

- front of the upright for cabinet and hinge reinforcement and shall be perforated for hinge screws, and shelf adjustment holes.
- c. Cabinet tops shall be formed with a 22 mm (7/8") high C formation at the front edge and turned down at the back to engage a wall hanging rail.
 - d. Cabinet flush bottoms shall be formed with a 22 mm (7/8") high C formation at the front edge.
 - e. Cabinet false bottoms shall be formed down on all four edges and shall be removable.
 - f. Cabinet backs shall be welded to the top, bottom and ends. Backs shall be perforated for shelf adjustment holes. Holes shall be enclosed by end uprights.
14. Adjustable Shelves: Front, back and ends formed down, with returns at front and back edges.
 15. Pull-Out Shelves: Turn front, sides and back edges up to form lip.
 16. Filler Panels: Provide at exposed-to-view areas, between back of cabinets and walls, knee opening spaces, and scribed where required to enclose gaps; easily removed for access to utility chase; fabricate with 12 mm (1/2") return at four sides.
 17. Utility Space: Provide space, cutouts, and holes for pipes, conduits, and fittings in cabinet bodies to accommodate services and their support-strut assemblies.
 18. Cabinet Base: Flanged metal strip welded to case bottom forming a fully enclosed toe space -- approximately 100 mm (4") high by 75 mm (3") deep without gaps or pockets; inside corners mitered and outside corners wrapped.
 19. Rubber Bumpers: Provide 9.5 mm diameter, soft rubber buttons attached to case for doors and drawers to close against.

C) HARDWARE, METAL LABORATORY CASEWORK

1. Standard drawer suspension:
 - a. Drawers less than 150 mm (6") deep: Full extension, ball-bearing roller, 100 lb. dynamic load, zinc-plated on all drawers except file drawers.
 - b. Drawers 150 mm (6") and deeper: Full extension with over travel, ball-bearing roller, 100 lb. dynamic load, zinc-plated.
2. Sliding-Door Pulls (Solid and Frame-Glazed Doors): Provide flush aluminum pulls.
3. Drawer and hinged door pulls:
 - a. Flush aluminum.
 - b. All pulls are mounted horizontally on drawers and horizontally on doors, inset nominally 25 mm (1") from edge.
4. Hinges: Institutional construction, 5 knuckles, 63.5mm (2-1/2") long; type 304 stainless steel, brush finish with hinge barrel only projected beyond face of cabinet. Furnish two per door 914mm (36") high and less, three per door over 914 mm (36") high.
5. Door Catch: Twin ball catch with screwdriver adjusted holding power; ball is chrome steel, catch and strike are brass; screw mounted.
6. Elbow catches and strike plates shall be used on left-hand doors of double door cases where locks are used and are to be burnished cast aluminum with bright brass finish.
7. Locks: Optional if selected - Pin tumbler with heavy duty interchangeable cylinder. Exposed lock noses shall be dull nickel (stain) plated and stamped with identifying numbers. Locks shall have a capacity of at least 2000 primary key changes and the capacity to Master keyed, grand –master keyed, sub-master keyed and mason keyed.
8. Label Holders: Label holders shall be self-adhesive type aluminum with satin finish and designed for 63.5 mm X 28.5 mm (2 -1/2" X 1-1/8") cards nominal sizes.
9. Number plates: where shown or called for, shall be self-adhesive type aluminum with indented back lettering.
10. Shelf Clips: Seismic shelf clips, double pin type.

D) CASEWORK FINISH

1. Provide laboratory casework with a factory-applied finish that is capable of withstanding the tests specified in this article with no permanent change in gloss, color, film hardness, adhesion, or film protection.
 - a. Acids:
 - 1) Not less than 10 drops (0.50 cc) of the following reagents applied to finish surface, covered with watch glass, convex side down, for 60 minutes, then washed and dried.
 - 2) Hydrochloric acid (37 percent), sulfuric acid (85 percent), nitric acid (25 percent), phosphoric acid (75 percent), acetic acid (98 percent).
 - b. Solvent:
 - 1) Not less than 10 drops (0.5 cc) of the following reagents applied to finish surface, covered with watch glass, convex side up, for 60 minutes, then washed and dried.
 - 2) Ethyl alcohol, butyl alcohol, methyl alcohol, toluene, acetone, benzene, carbon tetrachloride, formaldehyde (37 percent), gasoline, ethyl acetate, ethyl ether, methyl ethyl ketone, naphtha, kerosene, xylene, glycerin, furfural.
 - c. Bases and Salts:
 - 1) Not less than 5 drops (0.25 cc) of the following reagents applied to finish surface, covered with watch glass, convex side up, for 60 minutes, then washed and dried.
 - 2) Sodium hydroxide (25 percent), ammonium hydroxide (28 percent), potassium hydroxide (40 percent), saturated zinc chloride, saturated sodium chloride, saturated sodium sulphide, saturated sodium carbonate, poultice of "Tide" laundry detergent and water.
 - d. Salt Spray: Withstand 200 hours salt spray exposure conforming to ASTM-B117-59T procedure.
 - e. Moisture Resistance: No visible effect when finish surface exposed to the following:
 - 1) Hot water at a temperature of 190 degrees F (91 degrees C) to 205 degrees F (96 degrees C), trickled down surface at 45-degree angle for 5 minutes.
 - 2) Constant moisture using a 50 mm (2") by 75 mm (3") by 25 mm (1") cellulose sponge, soaked with water, in contact with surface for 100 hours.
 - f. Cold Crack: No effect when subjected to 10 cycles of temperature change from 20 degrees F (14 degrees C) for 60 minutes to 125 degrees F (52 degrees C) for 60 minutes.
 - g. Adhesion and Flexibility: No peeling or cracking or exposure of metal when metal is bent 180 degrees over a 12 mm (1/2") diameter mandrel.
 - h. Abrasion: Maximum weight loss of 5.5 mg. per 100 cycles as tested on a Taber abrasion tester #E4010 with 1000 GM wheel pressure and calibrate #CS10 wheels.
 - i. Hardness: Hard surface equivalent to 6H pencil lead.
 - j. Impact: Withstand forward impact of 64 pounds without chipping or crazing using a Gardner #167 Impact Tester with a 15.875 mm (5/8") diameter spherical punch.
 - k. Humidity Resistance: Withstand 1000 hours exposure in saturated humidity at 100 degrees Fahrenheit.
2. Provide steel laboratory casework with a factory-applied enamel finish that complies with chemical and physical resistance requirements specified.
 - a. Pretreatment: After assembly, thoroughly clean surfaces of grease, dirt, oil, flux, and other foreign matter by physical and chemical means. Treat entire unit with metallic phosphate process leaving surfaces with uniform, fine-grained, crystalline phosphate coating providing excellent bond for subsequent finish.
 - b. Finish Coats: One or more coats of high-bake chemical-resistant enamel to provide a hard and smooth, satin luster finish applied to treated surfaces. Apply finish in powder form, electrostatically charged, (or use dip-tank method) to interior and exterior surfaces, and average thickness of 0.038mm (1.5 mils) and minimum thickness of 0.0304mm (1.2 mils).
 - 1) Backs of cabinets and other surfaces not exposed to view: 1.0 mil average.

- 2) Color: Provide entire range of manufacturer's color range

E) PERFORMANCE REQUIREMENTS

- 1) Seismic Performance: Provide laboratory casework system capable of withstanding the effects of earthquake motions determined according to the building code in effect for this Project

F) QUALITY ASSURANCES:

- 1) Casework shall meet SEFA 8-2010 standards.

2.2 METAL CASEWORK SUPPORT SYSTEM

A) METAL CASEWORK SUPPORT SYSTEM

1. Provide a casework support system consisting of a steel tube slotted to receive a shelf and cabinet support brackets.
2. Support system framing members shall be cold-formed structural steel complying with ASTM A 1011 and A 570. Fitting and connections shall be fabricated of ASTM A 575, A 576, or A 36 steel
3. Frames adjustable from 790 mm (31") to 940 mm (37") AFF, and a Rear Frame Support Structure, single or double sided, incorporating a vertical post and horizontal support. The vertical supports shall incorporate individual slots for adjustable shelving and accessories. The vertical support shall incorporate a chase for plumbing and wiring of services.
4. Worksurface Support Frame:
 - a. The frame shall be a welded four sided assembly consisting of 11 gauge steel channel formations, front adjustable height legs, and rear attachment collars. Nominal lengths are 1066 mm (42"), 1219 mm (48"), 1524 mm (60"), 1828 mm (72") and 2438 mm (96").
 - b. Adjustable height shall be 790 mm (31") to 940 mm (37") AFF including 25 mm (1") work surface.
 - c. Front leg members shall be 11 gauge steel tubes, 50 mm (2") outside diameter and 44.5 mm (1.75") inner telescoping leg capable of vertical adjustment in 25 mm (1") increments.
 - d. Legs shall include non-marring, 10 mm (3/8") diameter, levelers.
 - e. Rear corners shall have 57 mm (2.25") diameter x 150 mm (6") high, 11 gauge half-round collars welded to the worksurface frame with supporting gussets and shall be mechanically fastened to the rear upright supports with Button Head Socket Cap Screws.
 - f. Load rating shall be SEFA Cat 4, 1200lbs for frames up to 1828 mm (72") in length and SEFA Cat 3, 1000 lbs. for frames over 1828 mm (72") in length. With uniformly distributed load, the maximum allowable deflection shall be 3 mm (0.125") measured at the center of the front rail.
 - g. An optional full length horizontal rear cabinet stop shall be located under the work surface frame to position 559 mm (22") deep mobile base cabinets 25 mm (1") behind the front edge of the work surface.
5. Double-sided Rear Frame Support Structure:
 - a. The rear frame support structure shall be 2133 mm (84") in height, available in nominal lengths of 1066 mm (42"), 1219 mm (48"), 1524 mm (60"), 1828 mm (72"), and 2438 mm (96") and shall allow the mounting of a Worksurface Support Frame on both sides.
 - b. Rear frame support structures shall consist of four (4) 50 mm (2") diameter tube full height vertical members, connected with a horizontal framing assembly that incorporates upper and lower horizontal cross rails. The upper cross rail shall provide a utility trough the full length of the table. The lower cross rail shall support integral double sided electrical and central plumbing raceway. The raceway may be specified with plumbing, electrical & data as required. Plumbing lines and wiring shall feed through a "bowtie" shaped aluminum vertical member centered between the full height vertical members. The "bowtie" vertical member and the

- lower horizontal member shall have easily removable access panels, with no exposed fasteners.
- c. In addition to the horizontal framing structure, the 50 mm (2") vertical members shall be able to accommodate up to three plumbing services each and a duplex electrical receptacle located below the worksurface.
 - d. Each vertical member shall include non-marring 10 mm (3/8") diameter, levelers.
 - e. Rear frame support structures in widths of 1524 mm (60") wide and over shall have a center support to accommodate split shelving.
 - f. The vertical members shall have shelf/accessory slots punched on 25 mm (1") increments starting at 1357 mm (55") above AFF to top of upright.
6. Single-sided Rear Frame Support Structure:
- a. The rear frame support structure shall be 2133 mm (84") in height and available in nominal lengths of 1066 mm (42"), 1219 mm (48"), 1524 mm (60"), 1828 mm (72"), and 2438 mm (96"), and shall allow the mounting of a Worksurface Support Frame on one side.
 - b. Rear frame support structures shall consist of two (2) 50 mm (2") diameter tube full height vertical members, connected with a horizontal framing assembly that incorporates upper and lower horizontal cross rails. The upper cross rail shall provide a utility trough the full length of the table. The lower cross rail shall provide an integral two channel electrical raceway. The raceway may be specified with electrical & data as required.
 - c. The vertical members shall be able to accommodate up to three services each and a duplex electrical receptacle or data outlet.
 - d. Vertical members shall include non-marring, 10 mm (3/8") diameter, levelers.
 - e. Rear frame support structures in widths of 1524 mm (60") wide and over shall have a center support to accommodate split shelving.
 - f. The vertical members shall have shelf/accessory slots punched on 25 mm (1") increments on the front starting at 1379 mm (55") above AFF to top of upright.
7. 6" Single-sided Rear Frame Support Structure:
- a. The rear frame support structure shall be 2133 mm (84") in height and available in nominal lengths of 1066 mm (42"), 1219 mm (48"), 1524 mm (60"), 1828 mm (72"), and 2438 mm (96"), and shall allow the mounting of a Worksurface Support Frame on one side.
 - b. Rear frame support structures shall consist of two (2) 152 mm (6") x 50 mm (2") oval shaped tube vertical members connected with a horizontal framing assembly that incorporates upper and lower horizontal cross rails. The upper cross rail shall provide a utility trough the full length of the table. The lower cross rail shall support integral double sided electrical and central plumbing raceway. The raceway may be specified with plumbing, electrical & data as required.
 - c. The vertical members shall be able to accommodate up to three services each and a duplex electrical receptacle or data outlet.
 - d. Vertical members shall include two (2) non-marring, 10 mm (3/8") diameter, levelers each.
 - e. Rear frame support structures in widths of 1524 mm (60") wide and over shall have a center support to accommodate split shelving.
 - f. The vertical members shall have shelf/accessory slots punched on 25 mm (1") increments on the front and back starting at 1379 mm (55") above AFF to top of upright
8. Finishes:
- a. Casework support system members shall be thoroughly cleaned and treated with a zinc phosphate coating to insure superior adhesion and corrosion resistance for the finish system.
 - b. The finish shall be a high grade laboratory furniture quality, chemically resistant baked finish. Color to be determined. Surfaces shall receive one coat of primer followed by two coats of the finish material. Surface shall be carefully sanded between coats and properly dried under recommended heat and humidity conditions. The finish shall be capable of resisting chemical spills as identified for the casework finish.

B) C-FRAME SUSPENDED CASEWORK SYSTEM (OPTIONAL FOR ADAPTABLE CASEWORK SYSTEM)

1. Construction:

- a. Floor-based leg assemblies in three fixed heights: sit-down or desk height at nominal 790 mm (31") to top of working surface; stand-up or counter height at nominal 940 mm (37") to top of working surface and pharmacy height at nominal 1016 mm (40") to top of working surface.
- b. Optional supporting floor-based leg assemblies with vertical height adjustment to allow counter tops to be adjusted from nominal height of 790 mm (31") to nominal 1016 mm (40") -height in 25.4 mm (1") increments.
- c. Upper and lower horizontal tubes of supporting floor-based leg assemblies of 50 mm (2") x 75 mm (3") steel tube; vertical connecting tubes between upper and lower horizontal tubes to be C-shaped, 50 mm (2") x 50 mm (2") square, reinforced where required.
- d. Horizontal C-shaped rails, seamless and free of welds, not less than 50 mm (2") x 50 mm (2") square; front top horizontal-shaped rail, reinforced with 44 mm (1-3/4") x 44mm (1-3/4") 11-gauge inner channel extending to 63.5 (2- 1/2") mm of each end, to be spot welded not less than 304 mm (12") on center, two sides; rails flat and straight, without warp or twist; removable steel end closures for all exposed ends.
- e. Backs of suspended wall cases are clipped to the C-shaped rail upon which they rest.
- f. Performance Criteria: Heavy-duty framing system capable of supporting 200 lbs. per linear foot of table length with base units in place; front upper rail to deflect less than 4.8 mm (3/16") at center of any six-foot span between floor-based supporting frames; with upper cases attached to floor-based upright, uprights to be capable of supporting additional 100 lbs. per linear foot.
- g. Support Structure: Capable of supporting total of at least 1,600 lbs. per eight-foot section with 1828 mm (72") maximum spacing of floor-based supports.
- h. 50 lbs. per linear foot, or 400 lbs. per eight-foot section, maximum counter top material weight.
- i. 75 lbs. per linear foot, or 600 lbs. per eight-foot section, full cabinet loading.
- j. 75 lbs. per linear foot, or 600 lbs. per eight-foot section of apparatus, equipment, or personnel sitting on assembly.

2. Finishes:

- 1) Casework support system members shall be thoroughly cleaned and treated with a zinc phosphate coating to insure superior adhesion and corrosion resistance for the finish system.
- 2) The finish shall be a high grade laboratory furniture quality, chemically resistant baked finish.

3. QUALITY ASSURANCE:

- 1) Casework shall meet SEFA 8-2010 standards

C) COLOUR.

- 1) Surfaces shall receive one coat of primer followed by two coats of the finish material. Surface shall be carefully sanded between coats and properly dried under recommended heat and humidity conditions. The finish shall be capable of resisting chemical spills as identified for the casework finish. Provide entire range of manufacturer's color range

2.3 POLYPROPYLENE CASEWORK

- A) Modular dimensioned, self-supporting, independent of building structure, table-based and mobile polypropylene casework, with epoxy resin work surfaces

-
1. Basis of Design: Subject to compliance with specified requirements, provide custom designed and manufactured polypropylene casework of nominal sizes as per diagrams in annexure A.
- B) Locations: Rooms with high acid use, per chloric use or metal free laboratories or as directed by the Designated Project Authority.
- C) DESIGN AND PERFORMANCE REQUIREMENTS
1. Metal-free.
 2. Casework construction and performance characteristics: in accordance with SEFA 8P or SEFA10 as applicable.
 3. Self-supporting units: completely seam-welded shell assembly without applied panels at ends, backs or bottoms, so cases can be used interchangeably.
 4. Interior of cases: easily cleanable, flush interior.
 5. Drawers: Sized on modular basis for interchange, easily removable without use of special tools.
 6. Mobile base cabinets: with anti-tip device.
 7. Table-Based: Modular, interchangeable work surface support structures, free-standing.
 8. Mobile Workstation: Modular, mounted on casters, capable of supporting base cabinets on undershelf.
 9. Chemical Resistance of Epoxy Resin Work surfaces: Submit independent testing laboratory report certifying that work surfaces are capable of withstanding test procedures in accordance with SEFA 3, for chemical spot test.
 10. Chemical Resistance of Polypropylene Materials: Submit independent testing laboratory report certifying that polypropylene cabinet surfaces are capable of withstanding test procedures in accordance with SEFA 8P, for chemical spot test.
 11. Sustainable Requirements:
Provide product with recycled content quantified as post-consumer + 1/2 pre-consumer recycled.
- D) MATERIALS
1. Stress-relieved, fully seam-welded, white polypropylene.
 2. Cast Epoxy Resin: Factory-moulded, modified, epoxy-resin formulation, uniform mixture throughout, full thickness with smooth, non-specular finish. Colour: non-glare black.
 3. Sealant: mildew-resistant silicone.
 4. Maximum VOC Content: 250 g/L (less water) in accordance with SCAQMD Rule 1168.
- E) COMPONENTS
1. General: refer to Annexure A for component configuration.
 2. Provide cutouts for mechanical and electrical services where required.
 3. Shop-assemble work for delivery to site in size easily handled and to ensure passage through building openings.
 4. Table-Based: Free-standing table, polypropylene construction, with leg levelers. Provide full length horizontal rear cabinet stop under work surface frame.
 5. Provide epoxy resin top to the selected mobile cabinet.
 6. Mobile Workstation: Used as instrumentation benching, mobile tables, complete with full width by full depth shelf underneath. Provide complete with work surface. Casters: non-marking rubber wheels, locking swivel type.
 7. Base Cabinets (E) or (F):
 - a. Configuration: indicated in Annexure A.
 - b. Reinforce walls and floors of cabinets where required to maintain structural integrity.

- c. Provide anti-tipping hardware
 - d. Doors: readily removable and hinges easily replaceable, complete with magnet embedded in door and cabinet frame.
 - e. Outer cabinet shell, kick plate, and shelves: 13 mm (1/2") thick.
 - f. Drawers, drawer guides, sliding window components, drawer pulls, handles, hinges, and screws: polypropylene.
 - g. Shelves: one piece, adjustable at 13 mm (1/2") o.c., complete with drip-proof lip.
 - h. Cabinets shall meet SEFA 8P-2014 Class 8 standard.
8. Specialty Cabinets for Acid Storage:
- a. Polypropylene construction as specified for adjacent cabinets, with corrosion-resistant lining, coved corners, and lip at front of cabinet opening to contain spills.
 - b. Provide removable back panel with two vent holes; one full depth shelf.
 - c. Provide polyolefin vent pipes to vent storage cabinets into fume hood.
 - d. Printed message on doors: ACID.
 - e. Size: 560mm (22") deep by 889 mm (35") high by width indicated.
 - f. Cabinets shall meet SEFA 11-2010 standard.

F) CABINET HARDWARE

- 1. Provide manufacturer's standard, metal-free hardware unless noted otherwise.
- 2. Pulls: polypropylene, orientation as directed by Consultant.
- 3. Door Catches: magnetic embedded in door and cabinet frame.
- 4. Drawer Stops: Designed to permit easy removal, and yet prevent inadvertent drawer removal. Provide on all drawers, located on inside.
- 5. Shelf supports: manufacturer's standard.

G) EPOXY WORKSURFACE FABRICATION

- 1. General:
 - a. Fabricate laboratory worksurfaces and backsplashes from materials indicated.
 - b. Worksurface Joints: minimize. Provide continuous worksurfaces where possible.
 - c. Cut holes for service fixtures, fittings, accessories, and equipment.
 - d. Notch worksurfaces at columns, and other projections.
 - e. Round or chamfer exposed edges and corners of cutouts.
 - f. Finish exposed edges and surfaces in same manner as specified for worksurface.
 - g. Provide metal-free reinforcing at worksurfaces with aprons spanning 1070 mm or greater.
 - h. Make allowances around periphery and where fixed objects pass through or project into worksurface material to permit normal movement without restriction.
 - i. Provide backsplash/ sidesplash on worksurfaces set against permanent partitions.
- 2. Epoxy Resin: 25 mm (1") thick, except 12 mm (1/2") thick for side and backsplash.
- 3. Backsplash and Side Splash: 100 mm high, except where indicated otherwise, site applied to worksurface.
- 4. Work surfaces shall meet SEFA 3-2010 standards.

H) EPOXY RESIN SINKS

- 1. Undermount type, moulded from thermosetting epoxy resin, same colour as worksurface.
- 2. Mould inside corners and pitch bottom to drain outlet.
- 3. Equip laboratory sinks with tailpieces, cross strainer, plug and overflow unless otherwise indicated.

4. Outlets: 38-mm (1½") diameter, 150-mm (6") minimum length, fabricated of same material as sink. Provide strainers at outlets.
5. Provide support system for sink.
6. Sink Size: 533mm (21") wide by 432mm (17") front to back, by 254 mm (10") deep.
7. Fixtures shall meet SEFA 7-2010 standards.

I) LABORATORY SERVICE FITTINGS

1. Metals: minimum 80% red brass alloy for valve bodies.
2. Use solid brass bar stock or specially selected alloys for assembly components and operating parts such as valve stems, renewable seats and needle cones.
3. Completely enclose spring mechanisms.
4. Design compression and needle valve stems to operate inside and make them replaceable.
5. Include needle valves with stainless steel floating needles and removable seats.
6. Include fittings with wall flanges, shanks, lock nuts, couplings, nuts and tailpieces.
7. Mixing Faucet at Sinks: Deck mounted mixing faucet with integral angled vacuum breaker for hot and cold water, to ANSI/ASME A112.18.1, CAN/CSA B125.1, and CSA B64.1, with 150 mm rigid/swing vacuum breaker gooseneck, replaceable stainless steel seat, removable seven serration hose end. Provide four-arm handles with colour-coded plastic index disc.
8. Acceptable Product: WaterSaver L414VB, or comparable product approved by Designated Project Authority.
9. Fittings shall meet SEFA 7-2010 standards.

J) GLASSWARE DRYING RACKS

1. Constructed of stress-relieved polypropylene, with integral drip trough, 915 mm clear drain hose, 150 mm long by 12 mm dia. polypropylene pegs, and wall mounting brackets. Size: 762mm (30") by 915 mm (36").

2.4 TABLES

A) TABLE-BASED METAL LABORATORY CASEWORK:

Free-standing table, constructed of tubular frame, with telescoping inner leg, and leg levelers. Height adjustable on minimum 25 mm (2") increments. Provide full length horizontal rear cabinet stop under work surface frame.

1. Tubular table frame: Type 304 stainless steel where indicated, cold-rolled steel with powder coat finish elsewhere.
2. Four leg table shall consist of a worksurface support frame as described above in A.1. Nominal lengths are 1066 mm (42"), 1219 mm (48"), 1524 mm (60"), 1828 mm (72") and 2438 mm (96"). Two additional leg members shall be bolted to the rear attachment collars to provide a four leg self-supporting table frame., adjustable in height from 790 mm (31") to 940 mm (37") AFF including 25 mm (1") work surface.
3. Front and rear leg members shall be 11 gauge steel tubes, 50 mm (2") outside diameter and 44 mm (1.75") inner telescoping leg capable of vertical adjustment in 50 mm (2") increments
4. Legs shall include non-marring, 10 mm (3/8") diameter, levelers.
5. Load rating shall be SEFA Cat 4, 1200lbs for frames up to 1830 mm (72") in length and SEFA Cat 3, 1000 lbs. for frames over 1830 mm (72") in length. With uniformly distributed load, the maximum allowable deflection shall be 3 mm (0.125") measured at the center of the front rail.
6. Provide full extension drawer slides fastened to table supports, and selected laboratory countertop.

B) ANTI-VIBRATION TABLES:

1. Table designed to provide worksurface with separately suspended platform in centre of table, supported on rubber dampening mounts. Table consists of outer table frame supporting main Work surface, and inner table frame supporting inner isolated worksurface. Isolated platform consisting of formed steel tray filled with ballast. Table frames: welded tubular steel, complete with leg levelers and anchors. Finish: Powder coat as specified for steel laboratory casework. Provide laboratory countertop of selected material.
- C) FREE-STANDING WORKSTATION :
1. Free-standing, 50 mm (2") tubular legs with levelers, 2134 mm (84") high slotted uprights complete service chase for service lines, data and electrical. Separate plumbed services and data in one upright, and electrical cabling in opposite uprights. Separate high voltage from low voltage cabling. Table height adjustable on minimum 25 mm (1") increments from 737 mm (29") to 915 mm (36") where indicated.
- D) QUALITY ASSURANCES:
1. Tables shall meet SEFA 8-2010 Class 7.

2.5 LABORATORY COUNTER TOPS

This section lists the minimum performance specifications for Laboratory worktops.

- A) CAST EPOXY RESIN TOPS:
1. Factory molded tops of modified epoxy resin formulation, uniform mixture throughout full thickness; especially compounded and cured to provide optimum physical and chemical resistance; smooth, non-specular finish of color indicated.
 2. Provide with/without integral sinks as selected by Designated Project Authority from matrix in Annexure A.
 3. Weld and Grind joints for tops in Island arrangement to provide one seamless surface.
 4. Notch and seal around casework support and service frame.
 5. Provide front and end overhang of 25 mm (1") over base cabinets, form with continuous drip groove on under surface 12 mm (½") from edge; tolerance not exceeding plus or minus 0.80 mm. Provide in longest practical lengths.
 - a. Thickness: 25mm (1")
 - b. Color: Black.
 6. Backsplash: Applied butt type; 100mm (4") high, unless indicated otherwise; provide end curbs where tops abut walls, fume hoods, and other fixed surfaces.
 7. Edge Profile: Square with eased edges.
 8. Physical Properties: Comply with the following minimum requirements:
 - a. Compressive Strength (ASTM D695): 36,500 PSI
 - b. Flexural Strength (ASTM D790): 16,000 PSI
 - c. Tensile Strength (ASTM D638): 10,500 PSI
 - d. Density (ASTM D792): 196 KG/M3
 - e. Rockwell M. Hardness (ASTM D785): 110
 - f. Heat Distortion (ASTM D648): 350 deg F (Temp. at 264 PSI)
 - g. Fire Resistance (ASTM D635): self-extinguishing
 - h. Water Absorption (ASTM D570): 0.0076 percent
 - i. Thermal Coefficient of Expansion (ASTM D696): 1.1509×10^{-5} in./o F
 9. Chemical Resistance:

-
- a. Spot test with the following reagents in the listed laboratory concentrations, in contact with finished top for 16 hours; with the following ratings:
 - b. No Effect: Glacial acetic acid, acetone, ammonium hydroxide 28%, benzene, carbon tetrachloride, citric acid 10%, diethyl ether, dimethyl formamide, ethyl acetate, ethyl alcohol 95%, ethylene dichloride, heptane, hydrochloric acid 20%, hydrogen peroxide 28%, isooctane, methyl alcohol, nitric acid 70%, phenol, sodium carbonate 2%, sodium hydrochlorite 5%, sulfuric acid 60%, toluene.
 - c. Slight Spot: Chromic acid 40%, hydrochloric acid 37%, sodium hydroxide 10%, sodium hydroxide 50%.
 - d. Spot: Dichromate cleaning solution, sulfuric acid 96%.
 10. Workmanship: Cast surfaces smooth, with drip grooves; provide factory cutouts for sinks. Fabricate plain butt type joints assembled with epoxy adhesive and prefitted, concealed metal spline.
 11. Fabrication Tolerances: Measure top in unrestrained condition.
 - a. Thickness: Plus or minus 0.8mm (1/32").
 - b. Size: Length: Plus or minus 3.2 mm (1/8").
 - c. Width: Plus or minus 1.59 mm (1/16").
 12. Squareness: Difference between diagonals shall not exceed 0.40mm (1/64") for each 300mm (12") of length.
 - a. Warp: 1.59mm (1/16") in 914mm (36") of length; 2.38mm (3/32") maximum in 2438 mm (96") length.
 - b. Location of Cutouts: Plus or minus 3.2 mm (1/8").
 - c. Size of Cutouts: Plus 3.2mm (1/8"). Minus 0.
 13. Tops shall comply with SEFA 3-2010 standards.
- B) STAINLESS STEEL TOPS:**
1. Provide 1.60 mm thick stainless steel sheet, AISI Type 302/304 with No. 4 satin finish, unless otherwise indicated. Weld shop joints, grind smooth and polish. Provide hairline, butt jointed field joints, mechanically bolted through continuous channels welded to underside at edges. Keep field jointing to a minimum. Apply reinforcing channels to underside of top where necessary to insure rigidity without deflection.
 2. Extend top down to provide a 25 mm (1") thickness, 75mm (3") return flange under frame, and 25mm (1") overhang. Sound deaden entire undersurface with heavy build mastic coating.
 3. Form backsplash coved and integral with top surface.
 4. Provide a raised marine edge around perimeter of tops containing sinks. Pitch top surface two ways to bowl to provide drainage without channeling or grooving.
 5. Where stainless steel sinks occur in stainless steel tops, factory assemble sinks and tops into integral unit with welds ground smooth and polished.
 6. Tops shall comply with SEFA 3-2010 standards.
- C) INSTALLATION REQUIREMENTS**
1. Work surface installation:
 - a. Where required due to field conditions, scribe or caulk to abutting surfaces.
 - b. Secure joints in the field, where practicable, in the same manner as in factory, with dowels, adhesive or fasteners recommended by manufacturer.
 - c. Secure work surfaces to casework and equipment components with material and procedures recommended by the manufacturer.
 - d. Provide cutouts for service connected and coordinate work with other trades.
 2. Field Jointing of Epoxy Tops: Locate field joints as shown on approved shop drawings; factory prepare mating surfaces so there is no jobsite processing of top and edge surfaces. Join using adhesives recommended by manufacturer and that match the color of the top.

3. Fastening Tops to Base Cabinets:
4. Stainless Steel Tops: Secure tops to cabinets with "Z" type fasteners or equivalent, using 2 or more fasteners at each front, end, and back.
5. Epoxy and Solid Phenolic Tops: Secure tops to cabinets with silicone adhesive, applied at each corner and continuously along perimeter edges.
6. Plastic Laminate Tops: Fasten plastic laminate countertops by screwing through corner blocks or gussets in base units into underside of countertop.
7. Maximum penetration of screws into underside of countertops shall not be installed closer than 6.35mm (1/4") below the top surface, unless instructed otherwise by countertop manufacturer.
8. Fastening Tops to Metal Wall-Hung Brackets:
 - a. Stainless Steel Tops: Secure tops to cabinets with "Z" type fasteners or equivalent, using 2 or more fasteners at each front, end, and back.
 - b. Epoxy and Solid Phenolic Tops: Secure tops to brackets with screws, applied at each corner by screwing through top bracket arm into underside of countertop. Provide pre-drilled holes for field installed stainless steel flathead torx or square head screws.
 - c. Maximum penetration of screws into underside of countertops shall not be installed closer than 6.35mm (1/4") below the top surface, unless instructed otherwise by countertop manufacturer.
9. Tolerance: Install countertops with no more than 3.175mm (1/8") in 2438mm (96") sag, bow, or other variation from a straight line.
10. Abut top and edge surfaces in one true plane, with internal supports placed to prevent deflection.
11. Join tops using clamping devices to create flush hairline joints. At joints in epoxy tops, use manufacturer's recommended adhesives and clamping devices to create joint widths of not more than 1.59mm (1/16"), completely filled and flush with abutting surfaces.
12. Where necessary to penetrate epoxy tops with fasteners, countersink heads approximately 3.175mm (1/8") and plug hole flush with material equal in chemical resistance, color, hardness, and texture to top surface.
13. Provide holes and cutouts as required for mechanical and electrical service fittings.
14. Carefully dress joints smooth, remove surface scratches, and clean and polish entire surface.
15. Provide scribe moldings for closures at junctures of top, curb, and splash with walls as recommended by manufacturer for materials involved.
16. Caulk space between wall and countertops with mildew-resistant silicone sealant.

2.6 MODULAR STORAGE SYSTEMS

A) MOBILE BASE CABINETS:

Cabinet shall be constructed as specified for metal laboratory casework. Complete with heavy-duty locking casters minimum 75 kg capacity per caster, finished metal top, and anti-tip devices. On drawer units, provide integral lock allowing only one drawer to be open at a time.

1. General:
 - a. Self-supporting units.
 - b. Inset construction: surfaces of doors, drawers, and panel faces to align with cabinet fronts without overlap. Horizontal and vertical case shell members to meet in same plane without overlap, cracks or crevices.
 - c. Materials: painted metal construction, except stainless steel (Type 304) where indicated.
 - d. Doors and drawers: reinforced double pan construction with sound deadening material, 19 mm (3/4") minimum thick, square edged.
 - e. Provide reinforcement for hardware attachment on doors and drawer front to inner pan.

- f. Drawers: one piece body. Provide nylon roller channel suspension with front rollers set into drawer channels. Case channels shall maintain alignment of drawer and provide an integral drawer stop to prevent inadvertent removal of drawer.
- g. Shelves in cabinets: one piece, adjustable at 13 mm (1/2 ") oc.
- h. Height, depth and width: where indicated.
- i. Cabinets and drawer units shall comply with SEFA 8-2010.

B) TALL CABINETS: FLOOR-MOUNTED.

1. General

- a. Back: fixed.
- b. Glazed doors shall be 3/4" thick and consist of an inner and outer door pan welded together to form a single unit. Outer door pan shall be pierced and formed to create a 3" wide frame with a beveled edge around the glass opening in the center of the door. Inner door pan shall be 18 gauge steel, flanged at all four sides, and pierced for a glass opening
- c. Framed glass doors: 6 mm (1/4") thick tempered safety glass.
(If indicated by Designated Project Authority in annexure A)
- d. Shelves: adjustable.
- e. Where indicated, fasten to support frame of benching.
- f. Self-supporting units.
- g. Inset construction: surfaces of doors, drawers, and panel faces to align with cabinet fronts without overlap. Horizontal and vertical case shell members to meet in same plane without overlap, cracks or crevices.
- h. Cabinets shall comply with SEFA 8-2010.

2. Construction:

- a. Materials: painted metal construction, except stainless steel (Type 304) where indicated.
- b. Doors and drawers: reinforced double pan construction with sound deadening material, 19 mm (3/4") minimum thick, square edged.
- c. Provide reinforcement for hardware attachment on doors and drawer front to inner pan.
- d. Toe space rails shall interlock in back of bottom rail and with end panel to provide a welding plate, and shall extend to the floor with a flange turned back and up for support.
- e. Drawers: one piece body. Provide nylon roller channel suspension with front rollers set into drawer channels. Case channels shall maintain alignment of drawer and provide an integral drawer stop to prevent inadvertent removal of drawer.
- f. Shelves in cabinets: one piece, adjustable at 13 mm (1/2") oc.
- g. Height, depth and width: as indicated

C) METAL FLAMMABLE LIQUID STORAGE CABINETS

- 1. General: Cabinet shall be constructed as specified for metal laboratory casework. Fabricate and finish cabinet using materials and methods as specified for Metal laboratory casework. Comply with requirements of CCOHS, CSA, NFPA No. 30-1993, Factory Mutual (FM)-6050, UL Listed – UL Std. 1275.
- 2. Flammable Liquid Storage: Where cabinets are indicated for solvent or flammable liquid storage, provide units that are listed and labeled as complying with the requirements of NFPA 30 for design, construction, and capacity of storage cabinets by ULC, or another testing and inspection agency acceptable to authorities having jurisdiction
- 3. Provide storage cabinet for flammable liquids that includes the following features:

- a. Self-closing and self-latching doors with three point latching. Provide synchronizing hardware for pairs of doors so that both doors will always fully close and fully latch upon closure. Furnish 5-pin tumbler, heavy duty cylinder type lock, satin chrome plated.
- b. 50mm (2") deep liquid-tight pan that covers cabinet bottom to contain leaks and spills.
- c. Grounding screw.
- d. Shelf: Full-width with perforations to allow air circulation; adjustable in 12mm (1/2") increments; furnish one for each cabinet, one shelf at undercounter, and 3 shelves at tall cabinets.
- e. Vents: Furnish with 50mm (2") schedule 40 pipe or stainless steel flexible duct from the low exhaust bung of cabinet to 150 mm (6") above ceiling. Provide Jamesbury fusible link Model #81T020 at vent termination below the ceiling for style tall vented cabinets only. Coordinate vent termination with mechanical contractor for connection to building exhaust.
4. Equip each door with fusible-link hold-open feature that ensures the door closes when the temperature outside the cabinet exceeds 165 deg F.
5. Lettering: Label each cabinet with the words" FLAMMABLE KEEP FIRE AWAY" and refer to local WHIMS requirements for additional labelling requirements.
6. Cabinet shall comply with SEFA 11-2010.

D) VENTILATED CORROSIVE STORAGE CABINETS

1. Cabinet shall be constructed as specified for metal laboratory casework. Removable back shall be gasket sealed. Doors shall be provided with vents and two gasket tight 38 mm (1- 1/2") polypropylene vent pipes extended through side of cabinet and connected to building exhaust. Vent pipes shall be furnished and installed by lab furnishings contractor. Provide cabinet with adjustable full depth shelves. Each shelf and bottom shelf shall be provided with a 6.35mm thick heat welded, liquid tight, removable polypropylene pan. Catch and shelf clips shall be stainless steel. Comply with CCOHS, CSA and NFPA requirements.
2. Cabinet shall be fully lined with polyethylene liner with a sill to provide a 50mm deep containment of spills.
3. Cabinet shall comply with SEFA 11-2010.

2.7 LABORATORY ACCESSORIES

A) SINKS

1. Sizes: As indicated or manufacturer's closest stock size of equal or greater volume, as acceptable to Designated Project Authority.
2. Drain Outlet and Tail Piece: 38 mm (1- 1/2") diameter, 150mm (6") minimum length, fabricated of same material as sink wherever possible, or as otherwise acceptable to Designated Project Authority.
3. Overflows: For each sink, except cup sinks, provide overflow of standard beehive or open top design with separate strainer; height 50 mm (2") less than sink depth; same material as sink.

B) CAST EPOXY RESIN SINKS

1. Nonspecular, molded in one piece with surfaces smooth, corners coved and bottom sloped to outlet. Minimum physical properties and chemical resistance as specified for cast epoxy resin tops; 12mm (1/2") minimum thickness.
2. Cast Epoxy Resin Sinks will be provided when Epoxy resin countertops are specified.
3. Furnish each sink with drain outlet, tailpiece, open end overflow, and gasketed stopper.
4. Install sinks using the following mounting method(s):
 - a. Flush mount (drop-in).
 - b. Non-draining.

C) STAINLESS STEEL SINKS

1. Fabricate from 1.30 mm (3/64") thick, Type 302/304, with No. 4 satin finish, unless otherwise indicated. Fabricate with horizontal and vertical corners rounded and coved to at least 15.875 mm (5/8") radius. Slope sink bottoms to pitch to outlet. Provide double wall construction for sink partitions with top edge rounded to at least 12 mm (1/2") diameter. Provide continuous butt welded joints and provide factory punching for fittings.
2. Where stainless steel sinks are integral with stainless steel tops, weld sink units to tops and finish to produce an invisible joint line.
3. Install sink units to other than stainless steel tops with integral rim or sink ring, set in mastic or sealant to form a positive seal with top. Apply approximately 3.175 mm (1/8") thick, heat resistant underseal to undersink surfaces for sound deadening and to prevent condensation.

D) PEGBOARD

1. General: To be installed at the back of sinks where selected in plan by the Designated Project Authority representative.
2. Grade:
 - a. Pegboard shall be high-strength tempered 6mm (1/4") Class 1-S2S wet-dry process hard board.
3. Features:
 - a. Provide white painted surface, round holes at 1" on center.
 - b. Provide 25mm (1") frame on all sides.
 - c. Mounting shall be 38mm (1-1/2") stand off.

E) INSTALLATION

1. PREPARATION

- a. Examine roughed-in mechanical and electrical services, installation of floors, walls, columns, and ceilings, and other conditions affecting installation of fittings and fixtures. Verify dimensions and locations of services and substrates before fabricating work.
- b. Notify Designated Project Authority of unsatisfactory conditions preventing proper installation of fittings and fixtures. Do not proceed with fabrication and installation until unsatisfactory conditions have been corrected in manner satisfactory to Designated Project Authority. Start of work shall indicate acceptability of related work.
- c. If applicable coordinate with designated project authority regarding any other trades to provide anchor to supporting substrate where indicated and where required for proper operation. Conceal anchorages where possible.

F) FIELD QUALITY CONTROL

1. Testing: Coordinate fittings and fixtures and similar requirements have been properly adjusted.
2. Test each item to demonstrate that it is operating properly and that controls and safety devices are functioning. Repair or replace accessories found to be defective in operation.

G) CLEANING

1. Touch-up minor abrasions and imperfections in painted finishes with coating which matches factory-applied finish.
2. Clean and sanitize equipment, and repair or replace deteriorated or defective equipment to a condition free of damage and deterioration at time of Designated Project Authority's final acceptance of the equipment.

PART 3 - ON-SITE PROJECT EXECUTION REQUIREMENTS

A) EXAMINATION

1. Examine areas, with the Designated Project Authority and Health and Safety Officer present, for compliance with requirements for installation tolerances, location of reinforcements, and other conditions affecting performance of the Work.

B) SERVICE FITTING(S) INSTALLATION REQUIREMENTS

1. Comply with local codes and specific facility requirements for installing water service fittings, gas fittings and electrical devices as per the Designated Project Authority.
2. Install fittings according to Shop Drawings, installation requirements in SEFA 2.3, and manufacturer's written instructions. Set bases and flanges of sink- and countertop-mounted fittings in sealant recommended by manufacturer of sink or countertop material. Securely anchor fittings to laboratory casework unless otherwise indicated.

C) CLEANING AND PROTECTING

1. Clean finished surfaces, touch up as required, and remove or refinish damaged or soiled areas to match original factory finish, as approved by Designated Project Authority.
2. Protect countertop surfaces during construction with 6-mil (0.15-mm) plastic or other suitable water-resistant covering. Tape to underside of countertop at a minimum of 48 inches (1200 mm) o.c.
3. SUBMITTAL REQUIREMENTS (Refer also to Annexure A – A- Scope and B)
 - a. Product Data: For each type of product.
 - b. Shop Drawings: For laboratory casework. Include plans, elevations, sections, and attachment details. (Drawings provided must indicate casework layout in order to assist and describe the basic lab fit up requirements only)
 - 1) Indicate types and sizes of cabinets.
 - 2) Indicate locations of hardware.
 - 3) Indicate locations and types of service fittings.
 - 4) Indicate locations of blocking and reinforcements required for installing laboratory casework.
 - 5) Include details of utility spaces showing supports for conduits and piping.
 - 6) Include details of support framing system.
 - 7) Include details of exposed conduits, if required, for service fittings.
 - 8) Indicate locations of and clearances from adjacent walls, doors, windows, other building components, and other laboratory equipment.
 - 9) Include coordinated dimensions for laboratory equipment that will be supplied by the Designated Project Authority.
 - c. Samples for Initial Selection: For factory-applied finishes and other materials requiring color selection.
 - d. Samples for Verification: For each type of cabinet finish and each type of countertop material, with manufacturer's standard sizes.

- D) COLOUR SELECTION:** Prior to manufacturing casework and storages for each project provide manufacturer's entire range of colors for each component for selection by Project Designated Authority.

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 File No. - N° du dossier
 VAN-9-42182

Buyer ID - Id de l'acheteur
 VAN582
 CCC No./N° CCC - FMS No./N° VME

ANNEX "C"

BASIS OF PAYMENT

The Offeror must provide firm lot prices in Canadian funds for the supply, delivery and installation of the requirement in accordance with Annex "A" Statement of Requirement for the period the Standing offer. Prices are DDP Delivered Duty Paid Incoterms 2000, include delivery and transportation charges, custom duties and excise taxes. Applicable taxes are extra (if applicable).

Delivery locations:

Cultus Lake Laboratory (Cultus Lake)
 Institute of Ocean Sciences (Sidney BC)
 Pacific Science Enterprise Centre (West Vancouver)
 Pacific Biological Station (Nanaimo)

REFERENCE FROM ANNEX B	NOTES	MODULE			PRICES		
		A	B	C	D Total Price A+B+C	E Weighting	Total F=D*E
2.2	METAL CASEWORK SUPPORT SYSTEM TABLE FRAME SYSTEM WITH FLEXIBLE SERVICE CONNECTIONS						
2.4	TABLE BASED METAL LABORATORY CASEWORK FREE STANDING TABLE						
2.6	MOBILE BASE CABINETS E-36-A-L (CABINET SELECTION)						
		\$ -	\$ -	\$ -	\$ -	0.1	

2.2	C-FRAME SUSPENDED ADAPTABLE CASEWORK SYSTEM TABLE FRAME SYSTEM WITH FLEXIBLE SERVICE CONNECTIONS						
2.5	CAST EPOXY RESIN TOPS E-36-A-L (CABINET SELECTION)						
2.6	MOBILE BASE CABINETS						
		\$ -	\$ -	\$ -	\$ -	0.1	

2.3	POLYPROPYLENE CASEWORK	E-36-B-L (CABINET SELECTION)
2.3	E BASE CABINETS	

\$	-	\$	-	\$	-	\$	-	\$	0.1
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REFERENCE FROM ANNEX B		NOTES	PRICING	WEIGHTING	TOTAL
CASEWORK ELEMENTS					
2.3	POLYPROPYLENE CASEWORK				
	G WORKSURFACE (TOP)	FOR MODULE A IN ANNEX A	\$ -	0.02	
	J GLASSWARE DRYING RACKS	OPTIONAL FOR SINK LOCATIONS	\$ -	0.02	
2.4	TABLES				
	A TABLE-BASED METAL LABORATORY CASEWORK	FOR MODULE A IN ANNEX A	\$ -	0.02	
	B ANTI VIBRATION TABLE	FOR MODULE A IN ANNEX A	\$ -	0.02	
	C FREE-STANDING WORKSTATION	FOR MODULE A IN ANNEX A	\$ -	0.02	
2.5	LABORATORY COUNTERTOPS				
	A CAST EPOXY RESIN TOPS	FOR MODULE A IN ANNEX A	\$ -	0.02	
	B STAINLESS STEEL TOPS	FOR MODULE A IN ANNEX A	\$ -	0.03	
2.6	MODULAR STORAGE SYSTEMS				
	A MOBILE BASE CABINETS	SIZE E-42-A-L FOR EVALUATION	\$ -	0.03	
	B TALL CABINET (WITH SHELVES)	SIZE H-42-C-L FOR EVALUATION	\$ -	0.03	
	B TALL CABINET (WITH GLASS DOORS AND SHELVES)	SIZE G-42-C-L FOR EVALUATION	\$ -	0.03	
	C METAL FLAMMABLE LIQUID STORAGE CABINETS	SIZE E-36-C-L FOR EVALUATION	\$ -	0.05	
	D VENTILATED CORROSIVE STORAGE CABINETS	SIZE E-36-C-L FOR EVALUATION	\$ -	0.05	

ADD PRICE SUMMARY OF ENTIRE RANGE OF MANUFACTURER'S STANDARD RANGE OF STORAGE SIZES

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2.7 LABORATORY ACCESSORIES				
A	SINKS	SINKS TO BE INSTALLED IN SINK CABINET	\$ -	0.02
B	CAST EPOXY RESIN SINKS	SINKS TO BE INSTALLED IN SINK CABINET	\$ -	0.02
C	STAINLESS STEEL SINKS	SINKS TO BE INSTALLED IN SINK CABINET	\$ -	0.02
D	PEGBOARD	OPTIONAL FOR SINK LOCATION	\$ -	0.02
				TOTAL

REFERENCE FROM ANNEX A

SITE VISIT FOR SURVEY AND PREPARATION OF SHOP DRAWINGS FOR EACH LOCATION (ALL INCLUSIVE)

PACIFIC SCIENCE ENTERPRISE CENTRE
 4160 MARINE DRIVE
 WEST VANCOUVER, BC
 V7V 1N6

CULTUS LAKE SALMON RESEARCH LAB
 4222 COLUMBIA VALLEY HIGHWAY
 CULTUS LAKE, BC
 V2R 5B6

INSTITUTE OF OCEAN SCIENCES
 9860 WEST SAANICH ROAD
 P.O. BOX 6000
 SIDNEY, BC
 V8L 4B2

PACIFIC BIOLOGICAL STATION
 3190 HAMMOND BAY ROAD
 NANAIMO, BC
 V9T 6N7

\$ -

\$ -

\$ -

\$ -

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ANNEX “D” to PART 3 OF THE REQUEST FOR STANDING OFFERS

ELECTRONIC PAYMENT INSTRUMENTS

The Offeror accepts to be paid by any of the following Electronic Payment Instrument(s):

- VISA Acquisition Card;
- MasterCard Acquisition Card;
- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only);
- Large Value Transfer System (LVTS) (Over \$25M)

ANNEX "E" to PART 5 OF THE REQUEST FOR STANDING OFFERS

FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION

I, the Offeror, by submitting the present information to the Standing Offer Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare an offer non-responsive, or may set-aside a Standing Offer, or will declare a contractor in default, if a certification is found to be untrue, whether during the offer evaluation period, during the Standing Offer period, or during the contract period. Canada will have the right to ask for additional information to verify the Offeror's certifications. Failure to comply with any request or requirement imposed by Canada may render the Offer non-responsive, may result in the Standing Offer set-aside or constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit [Employment and Social Development Canada \(ESDC\) – Labour's](#) website.

Date: _____ (YYYY/MM/DD) (If left blank, the date will be deemed to be the RFSO closing date.)

Complete both A and B.

A. Check only one of the following:

- A1. The Offeror certifies having no work force in Canada.
- A2. The Offeror certifies being a public sector employer.
- A3. The Offeror certifies being a [federally regulated employer](#) being subject to the [Employment Equity Act](#).
- A4. The Offeror certifies having a combined work force in Canada of less than 100 permanent full-time and/or permanent part-time employees.

A5. The Offeror has a combined workforce in Canada of 100 or more employees; and

- A5.1 The Offeror certifies already having a valid and current [Agreement to Implement Employment Equity](#) (AIEE) in place with ESDC-Labour.

OR

- A5.2. The Offeror certifies having submitted the [Agreement to Implement Employment Equity](#) (LAB1168) to ESDC-Labour. As this is a condition to issuance of a standing offer, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to ESDC-Labour.

B. Check only one of the following:

- B1. The Offeror is not a Joint Venture.

OR

- B2. The Offeror is a Joint venture and each member of the Joint Venture must provide the Standing Offer Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions).

ANNEX F – EVALUATION CRITERIA

1. Mandatory Technical Criteria

The Offeror shall provide documentation and demonstrate in the bid that their proposed fully functional Laboratory Casework System meets each and every criteria. **Failure to provide supporting documentation may result in the bid being deemed non-responsive. Refer to the complete requirements of the clause listed below in Annex B.**

#	Mandatory Criteria	Offeror's Response
		Demonstrated and Identify Supporting Documentation (Offerors to insert data and page number)
P1	Note: P1 (P- refers to Part and # refers to specification part number from Annex B)	
P1 B.	Submittals: Product Data, testing by a qualified independent testing laboratory	
P1 C.	Qualification Data: Capabilities and experience of installers or firms	
P1 D.	Submit typical Shop Drawings based on standard module layouts in Annex A	
P1 E.	Quality assurances: QA, single source responsibility, certified installers, laboratory qualifications	
P1 H.	Warranty: manufacturer to provide written warranty of five years for casework	
	PRODUCT REQUIREMENTS	
	Performance Specifications	
P2		
	Casework and General Specifications	
P2.1E	Performance requirements- system capable of withstanding the effects of earthquake motions determined according to the building code in effect for this Project	
P2.1 F.	Quality assurances: casework to meet SEFA 8-2010	

P2.2B	C-Frame Suspended Casework System (Optional for Adaptable Casework System) to meet construction and finish requirements, provide product data	
P2.3 A.	Modular, self-supporting, independent casework with epoxy resin work surfaces	
P2.3 C-2.	Quality assurances: casework to meet SEFA 8P or SEFA10 as applicable	
P2.4 D.	Quality assurance: Tables to meet SEFA 8-2010 Class 7	
P2.5A-13	Quality assurance: Cast Epoxy Resin Tops to meet SEFA 3-2010	
P2.5B-6	Quality assurance: Stainless Steel Tops to meet SEFA 3-2010	
P2.6A-1 (i)	Quality assurance: Modular Base Cabinets and Drawers to meet SEFA 8-2010	
P2.6B-1 (h)	Quality assurance: Tall Cabinets to meet SEFA 8-2010	
P2.6C-6	Quality assurance: Flammable Liquid Storage Cabinet to meet SEFA 11-2010	
P2.6D-3	Quality assurance: Corrosive Storage Cabinet to meet SEFA 11-2010	
P2.7 A.	Sinks: sizes outlets and overflows as specified: provide product data	
Metal Cabinet and Table Material Specifications		
P2.1 A.	Metal casework material: standard integrated system, suitable for single or double faced conditions, prime furniture stainless steel, minimum thicknesses as specified.	
Auxiliary Cabinet Material Specifications		
P 2.3 B	Casework recommended by manufacturer for use in laboratory with high acid use or metal free laboratories.	

P2.3 D.	Polypropylene casework material: white, stress-relieved polypropylene, cast epoxy resin, factory molded	
	Cabinets and Table Specifications	
P2.1 B	Fabrication: assembly at point of manufacture, permit interchangeability of drawers and hinged doors of like sizes, provide space for utilities. Provide removable panel construction, acoustical lining, wall cases, and filler panels, pull out shelves, adjustable shelves.	
P2.3 E.	Components of polypropylene casework: provide product data	
P2.4 A.	Free standing metal casework tables: provide product data	
P2.4 B.	Anti-vibration tables: provide product data	
P2.4 C.	Free-standing workstations, table height adjustable: provide product data	
P2.6 A.	Mobile base cabinets: self-supporting , materials and dimensions as specified, heavy-duty locking casters: provide product data	
P2.6 B.	Tall cabinets: self-supporting, fixed back, materials and dimensions as specified: provide product data	
P2.6 C.	Flammable liquids storage cabinets, provide vents as specified: provide product data	
P2.6D	Modular Storage Systems- Ventilated Corrosive Storage Cabinets- Materials and Construction: provide product data	
	Laboratory Casework System Specifications	
P2.2 A.	Metal casework support system: consisting of slotted steel tubes, cold formed structural steel, adjustable frames, chase for plumbing and wiring	

P2.2 B.	C-frame suspended casework system: floor based leg assemblies with fixed heights, steel tube, heavy-duty supporting loads as specified	
Metal Cabinet Finish Specifications		
P2.1 D.	Casework finish: factory applied, withstanding the specified tests	
P2.2 C.	Metal casework support system: Colour; one coat of primer, two coats of finish; resistant to chemical spills. Provide entire range of manufacturer's standard colors in paint chip samples.	
Hardware Specifications		
P2.1 C.	Hardware, metal laboratory casework: provide specified drawer suspensions, sliding door pulls, drawer and hinged door pulls, hinges, catches, locks etc.	
P2.3 F.	Cabinet hardware: provide specified pulls, catches, drawer stops and shelf supports	
Countertops, Tabletops, Shelves and Sink Specifications		
P2.3 G.	Work surface fabrication: minimize joints, round or chamfer exposed edges, provide backsplash and sidesplash against permanent partitions	
P2.3 H.	Epoxy resin sinks: undermount, moulded from thermosetting epoxy resin, provide support system for sink, outlets and sizes as specified	
P2.3 I.	Laboratory service fittings: minimum 80% red brass alloy for valve bodies, provide product data and samples of all deck mounted mixing faucets with four arm handles, to be colour-coded plastic index disk	
P2.3 J.	Glassware drying racks: stress-relieved polypropylene, with integral drip trough, polypropylene pegs, size as specified	

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 File No. - N° du dossier
 VAN-9-42182

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 VAN582
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P2.5A	Laboratory Counter Tops- Cast Epoxy Resin Tops- Materials and Construction	
P2.5B	Laboratory Counter Tops- Stainless Steel Tops- Materials and Construction	
P2.5 C.	Installation requirements: work surface installation, field joining, fastening	
P2.7 B.	Cast epoxy resin sinks: sizes, outlets and overflows as specified	
P2.7 C.	Stainless steel sinks: stainless steel, satin finish	
P2.7 D.	Pegboard: high-strength tempered wet-dry process hard board, provide holes, frame and stand-off as specified	
P3		
	On-site project execution requirements	
P3 B.	Service fitting(s): provide manufacturer's installation requirements complying with SEFA-2	
P3.D	Provide manufacturer's entire range of colors and paint chip samples for each component for selection by Project Designated Authority	

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FORM 1 - Bidder's Submission Information	
Bidder's full legal name	
Authorized Representative of Bidder for evaluation purposes (e.g., clarifications)	Name
	Title
	Address
	Fax #
	Email
Bidder's Procurement Business Number (PBN) [see the <i>Standard Instructions 2003</i>]	
Jurisdiction of Contract: Province in Canada the bidder wishes to be the legal jurisdiction applicable to any resulting contract (if other than as specified in solicitation)	
Federal Contractors Program for Employment Equity (FCP EE) Certification:	See Annex E
COMPLETE LIST OF NAMES OF ALL INDIVIDUALS WHO ARE CURRENT BOARD OF DIRECTORS OF THE BIDDER:	
NAME	TITLE
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
<p>On behalf of the Bidder, by signing below, I confirm that I have read the entire bid solicitation including the documents incorporated by reference into the bid solicitation and I certify that:</p> <ol style="list-style-type: none"> 1. The Bidder considers itself and its products able to meet all the mandatory requirements described in the bid solicitation; 2. This bid is valid for the period requested in the bid solicitation; 3. All the information provided in the bid is complete, true and accurate; and 4. If the Bidder is awarded a contract, it will accept all the terms and conditions set out in the resulting contract clauses included in the bid solicitation. 	
Signature of Authorized Representative of Bidder	