

Solicitation No. - N° de l'invitation
E0225-150564/D
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Buyer ID - Id de l'acheteur
PWA310
CCC No./N° CCC - FMS No./N° VME

IMPORTANT

Request for Supply Arrangement

This is a request to solicit bids for a Supply Arrangement (SA) for the provision of Mechanical & Electrical Engineering services in the Atlantic Region. Suppliers capable of meeting the requirement of this solicitation are invited to submit an arrangement.

This document also allows suppliers who were issued an SA under the last solicitation to submit arrangements for additional services.

Qualified suppliers that received a Supply Arrangement (SA) under: RFSA E0225-150564/A, E0225-150564/B or E0225-150564/C, are **not obligated** to respond to this Refresh RFSA.

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PART 1 - GENERAL INFORMATION

1.1 Introduction

The Request for Supply Arrangements (RFSA) is divided into six parts plus attachments and annexes, as follows:

Part 1 General Information: provides a general description of the requirement;

Part 2 Supplier Instructions: provides the instructions applicable to the clauses and conditions of the RFSA;

Part 3 Arrangement Preparation Instructions: provides Suppliers with instructions on how to prepare the arrangement 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 arrangement and the basis of selection;

Part 5 Certifications and Additional Information: includes the certifications and additional information to be provided; and

Part 6 6A, Supply Arrangement, 6B, Bid Solicitation, and 6C, Resulting Contract Clauses:

6A, includes the Supply Arrangement (SA) with the applicable clauses and conditions;

6B, includes the instructions for the bid solicitation process within the scope of the SA;

6C, includes general information for the conditions which will apply to any contract entered into pursuant to the SA.

The Annexes include the Statement of Requirement, the Basis of Payment and any other annexes.

1.2 Summary

1.2.1 Public Services and Procurement Canada have a requirement for a Request for Supply Arrangement (RFSA) for the provision of Mechanical & Electrical Consulting Services to locations in the Atlantic provinces:

- NOVA SCOTIA,
- NEW BRUNSWICK,
- PRINCE EDWARD ISLAND
- NEWFOUNDLAND AND LABRADOR

Any locations subject to the Comprehensive Land Claims Settlement Area (CLCSA) are excluded.

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Suppliers must identify the specialty of service for EACH region that they are proposing to provide under any resulting supply arrangement. It is not necessary to submit a separate arrangement for all specialty services issued under an arrangement. If a supplier wishes to submit an arrangement for only a specific specialty in a specific region, they may do so. There is no maximum to the number of Supply Arrangements that may be issues as a result of the Request for Supply Arrangement (RFSa) refresh.

Suppliers must provide a list of names, or other related information as needed, pursuant to section 01 of Standard Instructions 2008.

The Supply Arrangements will remain valid for a period of seven (7) years or until such time as Canada no longer considers them to be advantageous to use them. The period for awarding contracts under the Supply Arrangement begins on the start date of the Supply Arrangement.

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP).

The resulting Supply Arrangements will not be used for deliveries within a Comprehensive Land Claims Settlement Area (CLCSA). All requirements for delivery within a CLCSA are to be submitted to the Department of Public Works and Government Services for individual processing.

1.3 Debriefings

Suppliers may request a debriefing on the results of the request for supply arrangements process. Suppliers should make the request to the Supply Arrangement Authority within **15 working days** of receipt of the results of the request for supply arrangements process. The debriefing may be in writing, by telephone or in person.

1.4 Use of 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 Supply Arrangement that is issued under this solicitation, refer to 6.12 Transition to an e-Procurement Solution (EPS).

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

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PART 2 - SUPPLIER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the Request for Supply Arrangements (RFSA) 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.

Suppliers who submit an arrangement agree to be bound by the instructions, clauses and conditions of the RFSA and accept the clauses and conditions of the Supply Arrangement and resulting contract(s).

The **2008 (2020-05-28) Standard Instructions** - Request for Supply Arrangements - Goods or Services, are incorporated by reference into and form part of the RFSA. <https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/1/2008/20>

Subsection 5.4 of **2008**, Standard Instructions - Request for Supply Arrangements - Goods or Services, is amended as follows:

Delete: 60 days
Insert: **120 days**

2.2 Submission of Arrangements

Arrangements must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated in the RFSA (1st page).

Note: For suppliers choosing to submit using **epost Connect** for arrangements closing at the Bid please email the following address a minimum of **six-days (6)** prior to bid submission in order open up and ePost Connect conversation as detailed in the standard instruction

Email: TPSGC.RAReceptionSoumissionsNE-AROfferReceivingNS.PWGSC@tpsgc-pwgsc.gc.ca

This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions **2008**, or to send arrangements through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

Note: Arrangements **will not** be accepted if emailed directly to the email address of the Contracting Officer (Byron Kendell).

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

Bid Receiving Unit
Public Works and Government Services Canada
1713 Bedford Row
Halifax, Nova Scotia
B3J 1T3

Fax: (902) 496-5016

2.3 Former Public Servant - Notification

Service contracts awarded to former public servants in receipt of a pension or a lump sum payment must bear the closest public scrutiny and reflect fairness in the spending of public funds. Therefore, the bid solicitation will require that you provide information that, were you to be the successful bidder, your status with respect to being a former public servant in receipt of a pension or a lump sum payment, will be required to report this information on the departmental websites as part of the published proactive disclosure reports generated in accordance with Treasury Board policies and directives on contracts with former public servants, [Contracting Policy Notice 2012-2](#) and the [Guidelines on the Proactive Disclosure of Contracts](#).

2.4 Federal Contractors Program for Employment Equity - Notification

The Federal Contractors Program (FCP) for employment equity requires that some contractors make a formal commitment to Employment and Social Development Canada (ESDC) - Labour to implement employment equity. In the event that this Supply Arrangement would lead to a contract subject to the Federal Contractors Program (FCP) for employment equity, the bid solicitation and resulting contract templates would include such specific requirements. Further information on the Federal Contractors Program (FCP) for employment equity can be found on [Employment and Social Development Canada \(ESDC\) - Labour's](#) website.

2.5 Enquiries - Request for Supply Arrangements

All enquiries must be submitted in writing to the Supply Arrangement Authority no later than **SEVEN (7) calendar days** before the Request for Supply Arrangements (RFSA) closing date. Enquiries received after that time may not be answered.

Suppliers should reference as accurately as possible the numbered item of the RFSA to which the enquiry relates. Care should be taken by Suppliers 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 Suppliers do so, so that the proprietary nature of the

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question(s) is eliminated, and the enquiry can be answered to all Suppliers. Enquiries not submitted in a form that can be distributed to all Suppliers may not be answered by Canada.

2.6 Applicable Laws

The Supply Arrangement (SA) and any contract awarded under the SA must be interpreted and governed, and the relations between the parties determined, by the laws in force in **NOVA SCOTIA**.

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

2.7 Bid Challenge and Recourse Mechanisms

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:
 - Office of the Procurement Ombudsman (OPO)
 - Canadian International Trade Tribunal (CITT)
- (c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - ARRANGEMENT PREPARATION INSTRUCTIONS

3.1 Arrangement Preparation Instructions

NOTE: Any pages which extend beyond the above page limitation and any other attachments will be extracted from the arrangement and will not be evaluated. Please note that the page limitation will be applied to each deliverable – 1 page project descriptions, 1 page CVs, etc.

The maximum number of pages (including text and graphics) to be submitted is as follows:

- i. **Team Approach/Management Services:**
FOUR (4) Pages which includes the one-page Curriculum Vitae (CV) of the identified Key Contacts for the Supply Arrangement.
- ii. **Past Experience of the Firm:**
Up to a maximum of **FOUR (4) Projects** demonstrating scope and breadth of Mechanical and/or Electrical projects per summary above the maximum of **TWO (2) pages** per project. The **maximum** page limit is **EIGHT (8) pages** for this section.
- iii. **Key Personnel Expertise and Experience:**
up to a **maximum of THREE (3) x 1 page CV** per discipline (*i.e. up to three (3) Mechanical (3) Electrical*). **One (1)** for each of the proposed key personnel for each Service (*i.e. If submitting expertise in TWO (2) discipline services – Mechanical and Electrical, this section is limited to SIX (6) pages maximum*).

The following are **not** part of the page limitation mentioned above:

- a. Covering letter
- b. Certifications requested in Part 5
- c. Front Page of the Request for Supply Arrangement document
- d. Front Page of the Revision(s) to the Request for Supply Arrangement document
- e. Matrix of Proposed Services and Proposed Geographical Areas

IMPORTANT

Any pages which extend beyond the above page limitation and any other attachments will be extracted from the arrangement and will not be evaluated. Please note that the page limitation will be applied to each deliverable – 1 page project descriptions, 1 page CVs, etc...

- When the Supplier submits their arrangement electronically, Canada requests that the Supplier submits its arrangement in accordance with section 08 of the 2008 standard instructions. The epost Connect system has a limit of **1GB per single message** posted and a limit of 20GB per conversation. The arrangement must be gathered per section and separated as follows:

Section I: Technical Arrangement
Section II: Certifications

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- If the Supplier chooses to submit its arrangement in hard copies, Canada requests that the Supplier submits its arrangement in separately bound sections as follows:

Section I: Technical Arrangement ONE (1) hard copies
Section II: Certifications ONE (1) 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 Supplier is simultaneously providing copies of its arrangement 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 arrangement only**. Prices must not be indicated in any other section of the arrangement.

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

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

Section I: Technical Arrangement

In the technical arrangement, Suppliers should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Certifications

Suppliers must submit the certifications and additional information required under Part 5.

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PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Arrangements will be assessed in accordance with the entire requirement of the Request for Supply Arrangements.
- (b) An evaluation team composed of representatives of Canada will evaluate the arrangements.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

The mandatory and point rated technical evaluations are included in **Attachment 1**

4.2 Basis of Selection

- 4.2.1** The Basis of Selection is included in **Attachment 1**.

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PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Suppliers must provide the required certifications and additional information to be issued a supply arrangement (SA).

The certifications provided by Suppliers to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare an arrangement non-responsive, or will declare a contractor in default if any certification made by the Supplier is found to be untrue whether made knowingly or unknowingly during the arrangement evaluation period, or during the period of any supply arrangement arising from this RFSA and any resulting contracts.

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

5.1 Certifications Required with the Arrangement

Suppliers must submit the following duly completed certifications as part of their arrangement.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all suppliers must provide with their arrangement, **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 Supply Arrangement and Additional Information

The certifications and additional information listed below should be submitted with the arrangement, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Supply Arrangement Authority will inform the Supplier 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 arrangement 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 Supplier must provide the required documentation, as applicable, to be given further consideration in the procurement process.

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5.2.2 Additional Certifications Precedent to Issuance of a Supply Arrangement

The certifications listed below should be completed and submitted with the arrangement, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Supply Arrangement Authority will inform the Supplier of a time frame within which to provide the information. Failure to comply with the request of the Supply Arrangement Authority and to provide the certifications within the time frame provided will render the arrangement nonresponsive.

5.2.2.1 Status and Availability of Resources

5.2.2.1.1 *SACC Manual* clause [S3005T](#) (2008-12-12) Status and Availability of Resources.

The Supplier certifies that, should it be issued a supply arrangement as a result of the request for supply arrangements, every individual proposed in the arrangement or individuals with similar qualifications and experience will be available for the term of the supply arrangement.

If the Supplier has proposed any individual who is not an employee of the Supplier, the Supplier certifies that it has the permission from that individual to propose his/her services in relation to the Work to be performed and to submit his/her résumé to Canada. The Supplier must, upon request from the Supply Arrangement Authority, provide a written confirmation, signed by the individual, of the permission given to the Supplier and of his/her availability.

5.2.2.2 Education and Experience

5.2.2.2.1 *SACC Manual* clause [S1010T](#) (2008-12-12) Education and Experience

The Supplier certifies that all the information provided in the résumés and supporting material submitted with the arrangement, particularly the information pertaining to education, achievements, experience and work history, has been verified by the Supplier to be true and accurate.

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Attachment 1 - Arrangement Evaluation Procedures

Basis of Selection

E1: Mandatory Criteria

Each arrangement will be examined to determine that it meets all mandatory criteria: M1,M2 & M3. Arrangements which fail to meet the mandatory criteria will be given no further consideration and will be deemed non-compliant. Arrangements which meet all the mandatory criteria will proceed to E2.

E2: Point rated Technical Criteria

E2a) Team Approach and Management of Services

Arrangements will be evaluated and scored in accordance with the point rated technical criteria described in R1. Arrangements that fail to meet the minimum score of 60 points will not be considered any further. The rating of R1 is performed on a scale of 100 points.

E2b) Specialty Services Qualification

Arrangements will be evaluated and scored in accordance with the point rated technical criteria described in R2 and R3. Arrangements that fail to meet the minimum score of 40 points on each R2 and R3 will not qualify for that specialty service. Arrangements that fail to meet the minimum combined score of 120 will not qualify for that Specialty Service. The rating for each R2 and R3 is performed on a scale of 100 points, for total combined maximum score of 200 points.

Only arrangements that have qualified in one or more Specialty Services will proceed to E3.

E3: Conditions Precedent to Issuance of Supply Arrangement

Each compliant Supplier will be given written notification to provide the information required in Part 5 Certifications required as a Condition Precedent to Issuance of Supply Arrangement, by a specified date and time, unless the information has already been provided in the RFSA submission. Should the supplier fail to provide all the information required by the date and time specified, the Supplier will be considered non-compliant and given no further consideration.

E4: Suppliers with Arrangements that comply with all the requirements of the Request for Supply Arrangement will be issued Supply Arrangements.

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Mandatory Requirements

M1: Licensing, Certification or Authorization

The supplier shall be an engineer, licensed or eligible to be licensed to provide the necessary professional services to the full extent that may be required by provincial or territorial law in the province of Nova Scotia and/or New Brunswick and/or Prince Edward Island and/or Newfoundland and Labrador. If the supplier is licensed to practice in only one of the four provinces and indicates they can provide services in more than one province, then that supplier must be eligible and willing to be licensed in the province in which they are not licensed.

M2: Suppliers must choose to qualify in at least one (1) discipline service list below in at least one (1) geographical region. A sample format is provided in Attachment 2, Matrix of Proposed Discipline Services.

Point Rated Technical Criteria

Arrangements meeting the mandatory requirements will be evaluated in accordance with the following criteria.

The clarity of the writing will form part of the evaluation (use of language, document structure, conciseness and completeness of the response):

Higher consideration will be given to the appropriate significant involvement of senior personnel in key positions.

Discipline Services

Suppliers must choose to qualify in one (1) or more of the Discipline Services. Only Suppliers that meet the minimum score in at least ONE Discipline Service below will be eligible for issuance of a Supply Arrangement. Suppliers must demonstrate an acceptable level of experience in the Discipline Services they wish to qualify in order to be included in the Supply Arrangement for that service.

1. **Mechanical Engineering** - Building Mechanical systems including: Heating systems, Ventilation systems including industrial, institutional and commercial ventilation. Air Conditioning systems, Building Controls including EMCS, Plumbing, Fire protection, Commissioning, Investigations and reports.
2. **Electrical Engineering** - Building electrical systems including: Lighting, Security, Communications, Emergency power and life safety, Electrical entrance and distribution, Discipline building systems, Fit up work, Commissioning, Investigations and reports.
3. **Marine Engineering** – Electrical supply and distribution on marine structures, wharfs and fishing harbours.

Supplier Qualifications

R1: Team Approach / Management of Services **Maximum 100 pts** **Minimum 60 pts**

i. What Are We Looking For?

How the team will be organized in its approach and methodology in the delivery of the Required Services on a specific project. See Annex A, requirement for an example of the types of Required Services that may be requested on a project.

ii. What The Supplier Should Provide:

A description of the following:

- a. Identify a Supply Arrangement Primary Contact**
Define the roles and responsibilities, in addition provide a one-page CV **(20 Points)**
- b. Assignment of the resources and availability of back-up personnel (20 Points)**
- c. Management and Organization (reporting structure). (10 Points)**
- d. Quality Control Techniques (40 points)**
- e. Demonstration of how the team intends to meet the "Project Response Time" requirements (10 Points)**

Discipline Services Qualifications

R2: Past Experience of the Firm **Maximum 100 pts** **Minimum 40 pts**

I. What Are We Looking For?

The supplier should demonstrate that over at least the past ten (10) years it has participated in a range of projects The supplier's participation in these projects should have included the design of specific project features as described in the Discipline Services descriptions above as well as involvement at all stages of the design/construction process (preliminary, concept, detailed design and tendering and construction). An example of the Required Services that may be required on a specific project is provided in Annex A.

II. What The Supplier Should Provide:

For each of the following Discipline Services for which the firms' wishes to be qualified, provide a brief description to a maximum of FOUR (4) relevant projects. Project descriptions are limited to ONE (1) page per project, pages exceeding this limitation will not be reviewed. If more than FOUR (4) projects are submitted, only the first FOUR (4) projects; in the order of appearance/received/presented, will be reviewed. Repair or rehabilitation projects may be submitted but this will be limited to ONE (1) of the FOUR (4) submitted projects per Discipline Service. Identify a Supply Arrangement Primary Contact

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Discipline Services

1. Mechanical Engineering
 2. Electrical Engineering
 3. Marine Electrical Engineering
- a. Indicate the dates the services were provided for the listed projects **(20 Points)**.
 - b. Scope of services rendered, project objectives, constraints and deliverables **(40 Points)**.
 - c. Describe the accomplishments, achievements and experience either as a prime consultant or in a sub-consultant capacity on projects. If the supplier proposes to provide multi-disciplinary services, which might otherwise be performed by a sub-consultant, it should be reflected under this rated requirement **(40 Points)**

For Each project provide the following client information: Name, Address, Phone, Facsimile and Email of the client contact a working level. If deemed necessary, references may be contacted to verify project details.

For project which were carried out in joint venture, indicate the responsibilities of each of the involved firms.

R3: Key Personnel Expertise and Experience Maximum 100 pts Minimum 40 pts

I. What Are We Looking For?

A demonstration that the supplier has key personnel with the capability, capacity and expertise in the Discipline Services that the supplier wishes to provide services in. Please provide expertise/experience information for at least THREE (3) key personnel for each of the Discipline Services for which the supplier wishes to qualify. The CV is limited to ONE (1) page per person per discipline. For example: if the same person is being proposed for multiple specialties suppliers may submit multiple pages for this person, one for each of that persons specialties. Pages exceeding this ONE (1) page per person per specialty limitation will not be reviewed.

II. What The Supplier Should Provide:

- a. Submit the CV of key personnel. Each CV should clearly indicate the years of experience the key personnel has in the provision of the services specified in the Discipline Service that the supplier wishes to provide services. Indicate the professional accreditation of the key personnel **(30 Points)**
- b. Identify the personnel's years of experience, the number of years with the firm **(50 Points)**.
- c. Accomplishments/Achievements/Awards **(20 Points)**

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Evaluation Summary

Criterion	Sub-Criterion	Weighting Factor	Rating 0,2,4,6,8,10	Weighting Score
R1: Team Approach / Management	a	2	0 - 10	0 - 20
	b	2	0 - 10	0 - 20
	c	1	0 - 10	0 - 10
	d	4	0 - 10	0 - 40
	e	1	0 - 10	0 - 10
Note: to be considered further suppliers must achieve an R1 rating of 60 points out of the 100 Points available in R1				
R2: Past Experience of Firm	a	4	0 - 10	0 - 40
	b	4	0 - 10	0 - 40
	c	2	0 - 10	0 - 20
R3: Key Personnel Expertise & Experience	a	3	0 - 10	0 - 30
	b	5	0 - 10	0 - 50
	c	2	0 - 10	0 - 20
Note: to qualify for a discipline service, the supplier MUST achieve a minimum rating on each R2 and R3 of 40 points out of the 100 points available and a minimum of 120 points out of the 200 points available on the combined rating of R2 and R3				

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Generic Evaluation Table

Public Works and Government Service Evaluating Board members will evaluate the strengths and weaknesses of the Proponents response to the evaluation criteria and will rate each criterion with even number (0, 2, 4, 6, 8 or 10) using the generic evaluation table located below:

	INADEQUATE	WEAK	ADEQUATE	FULLY SATISFACTORY	STRONG
0 points	2 points	4 points	6 points	8 points	10 points
Did not submit information which could be evaluated	Lacks complete or almost complete understanding of the requirements	Has some understanding of the requirements but lacks adequate understanding in some areas of the requirements	Demonstrates a good understanding of the requirements.	Demonstrates a very good understanding of the requirements.	Demonstrates an excellent understanding of the requirements.
	Weaknesses cannot be corrected	Generally doubtful that weaknesses can be corrected	Weaknesses can be corrected	No significant weaknesses	No apparent weaknesses
	Supplier does not possess the qualifications and experience	Supplier lacks qualifications and experience	Supplier has an acceptable level of qualifications and experience	Supplier is qualified and experienced	Supplier is highly qualified and experienced
	Team proposed is not likely able to meet requirements	Team does not cover all components or overall experience is weak	Team covers most components and will likely meet requirements	Team covers all components – some members have worked successfully together	Strong team – has worked successfully together on comparable projects
	Sample projects not related to this requirement	Sample projects generally not related to this requirement	Sample projects generally related to the requirement	Sample projects directly related to this requirement	Leads in sample projects directly related to this requirement
	Extremely poor, insufficient to meet performance requirements	Little capacity to meet performance requirements	Acceptable capability, should ensure adequate results	Satisfactory capability, should ensure effective results	Superior capability, should ensure very effective results

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Attachment 2 - Matrix of Proposed Specialty Services

Select Geographic Region of Service and Discipline Service

Discipline Service	Nova Scotia	New Brunswick	Prince Edward Island	Newfoundland and Labrador
Mechanical Engineering	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrical Engineering	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Marine Electrical Engineering	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Suppliers Business Name: _____

Contact Number: _____

Procurement Business Number: _____

Type of Organization:

<input type="checkbox"/> Corporation	<input type="checkbox"/> Sole Proprietorship
<input type="checkbox"/> Joint Venture	<input type="checkbox"/> Partnership

During the proposal evaluation period, the PWGSC contact will be with the following person:

Name: _____

Telephone Number: _____

E-mail: _____

In any resultant SA, PWGSC should send solicitations to the following e-mail(s):

E-mail: _____

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PART 6 - SUPPLY ARRANGEMENT AND RESULTING CONTRACT CLAUSES

A. SUPPLY ARRANGEMENT

6.1 Arrangement

The Supply Arrangement covers the Work described in the Requirement at Annex A.

6.2 Security Requirements

6.2.1 There are no security requirements applicable to this Supply Arrangement. The security requirements will be determined at the time of bid solicitation under the Supply Arrangement.

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Supply Arrangement 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.

6.3.1 General Conditions

2020 (2020-07-21) General Conditions - Supply Arrangement - Goods or Services, apply to and form part of the Supply Arrangement.

6.3.2 Supply Arrangement Reporting

The Supplier must compile and maintain records on its provision of goods, services or both to the federal government under contracts resulting from the Supply Arrangement. This data must include all purchases, including those paid for by a Government of Canada Acquisition Card.

The Supplier must provide this data in accordance with the reporting requirements detailed in **Annex C**. If some data is not available, the reason must be indicated. If no goods or services are provided during a given period, the Supplier must still provide a "NIL" report. The data must be submitted on a QUARTERLY basis to the Supply Arrangement 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.

The data must be submitted to the Supply Arrangement Authority no later than **THIRTY (30)** calendar days after the end of the reporting period.

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6.4 Term of Supply Arrangement

6.4.1 Period of the Supply Arrangement

The period for awarding contracts under the Supply Arrangement is from _____ to _____.

6.5 Authorities

6.5.1 Supply Arrangement Authority

The Supply Arrangement Authority is:

Name: **Byron Kendell**
Title: Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
Address: 1713 Bedford Row
Halifax, Nova Scotia
B3J 3C9
Telephone: 902.497.5345
E-mail address: byron.kendell@pwgsc.gc.ca

The Supply Arrangement Authority is responsible for the issuance of the Supply Arrangement, its administration and its revision, if applicable.

6.5.2 Supplier's Representative *(will be completed at contract award by PWGSC)*

Name:
Title:
Company:
Address:

Telephone:
E-mail address:

6.6 Identified User

The Identified User is: Public Works and Government Services Canada – Real Property – Professional & Technical Services – Atlantic Region.

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6.7 Priority of Documents

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

- (a) the articles of the Supply Arrangement;
- (b) the general conditions 2020 (2020-07-21), General Conditions - Supply Arrangement - Goods or Services
- (c) Annex A Requirement
- (d) Annex B Rotational List
- (e) Annex C Supply Arrangement Reporting
- (f) Annex D Doing Business With the Government of Canada Guide
- (e) the Supplier's arrangement dated _____

6.8 Certifications and Additional Information

6.8.1 Compliance

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

6.9 Applicable Laws

The Supply Arrangement (SA) and any contract resulting from the SA must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____

6.10 Transition to an e-Procurement Solution (EPS)

During the period of the Supply Arrangement, Canada may transition to an EPS for more efficient processing and management of individual contracts for any or all of the SA'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 Supplier with at least a three-month notice to allow for any measures necessary for the integration of the Supply Arrangement into the EPS. The notice will include a detailed information package indicating the requirements, as well as any applicable guidance and support.

If the Supplier chooses not to provide the supply arrangement of their goods or services through the e-procurement solution, the Supply Arrangement may be set aside by Canada.

B. BID SOLICITATION

6.1 Bid Solicitation Documents

The bid solicitation will contain as a minimum the following:

- (a) security requirements
- (b) a complete description of the Work to be performed;
- (c) R1410T, General Instructions (GI) – Architectural and/or Engineering Services – Request for Proposal Subsection 4 and 5 of Section GI1 Code of Conduct and Certifications – Proposal, is amended as follows:

Subsections 04 and 05 of Section 01, Integrity Provisions – Proposal, of the General Instruction (GI) – Architectural and/or Engineering Services – Request for Proposal R1410T incorporated by reference above are deleted in their entirety and replaced with the following:

4. Bidders who are incorporated or who are a sole proprietorship, including those bidding as a joint venture, have already provided a list of names of all individuals who are directors of the Bidder, or the name of the owner, at the time of submitting an arrangement under the Request for Supply Arrangement (RFSa). These bidders must diligently inform Canada in writing of any changes affecting the list of directors during this procurement process as well as during the contract period.

5. Canada may, at any time, request that a bidder provide properly completed and Signed Consent Forms (**Consent to a Criminal Record Verification form - PWGSC-TPSGC 229**) for any or all individuals mentioned above within a specified time frame. Failure to provide such consent forms and associated information within the time frame provided, or failure to cooperate to the verification process, will result in the bid being declared nonresponsive.

- (d) bid preparation instructions;
- (e) instructions for the submission of bids (address for submission of bids, bid closing date and time);
- (f) evaluation procedures and basis of selection;
- (g) certifications

- **Federal Contractors Program (FCP) for Employment Equity - Notification**
- **Integrity Provisions – Associated Information**

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By submitting a bid, the Bidder certifies that the Bidder and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Proposal of General instruction – Architectural and/or Engineering Services- Request for Proposal R1410T. The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

(h) conditions of the resulting contract.

6.2 Bid Solicitation Process

6.2.1 Proposals will be solicited for specific requirements within the scope of the Supply Arrangement (SA) from Suppliers who have been issued a SA.

6.2.2 The bid solicitation will be posted on the Government Electronic Tendering Service (GETS) or will be provided via email directly to the Proponent depending on the selection methodology selected.

6.3 Selection Process

The responsibility of the bid solicitation process and award of contracts will depend on the estimated value of the proposed service as follows: Identified Users (Part 6A, 6. Identified Users) for requirements **less than \$75,000** and PWGSC (Acquisitions) for all other requirements. For each requirement, the Identified User or PWGSC will request a technical/financial proposal from the SA Holders for the services.

The evaluation procedures and basis of selection for each requirement under the SA will be unique to each bid solicitation issued.

Identified users will sign and approve the contracts when they are responsible for the selection process.

Identified Users must determine whether they have the delegation of authority in order to proceed with any of the following thresholds. If Identified Users do not have delegation of authority to proceed, the requirement will be submitted to PWGSC Contracting Authority for processing.

Treasury Board Approval will be required in the event the recommended contractor for award is a Former Public Servant (FPS) as identified under the policy and the contract value is \$25,000 and over (applicable taxes included) for non-competitive requirements and \$100,000 and over (applicable taxes included) for competitive requirements.

Identified Users may award contracts to Suppliers qualified in the applicable Service Stream(s) only in accordance with the following:

The geographical location of the project will be determined by the physical location of the work and not the government department or PWGSC office requesting the services.

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If more than one Discipline Services is proposed than the selection process will be determined as follows:

- a) The Discipline Service with the higher percentage of the overall estimated value will be used.
- b) In the case where the estimated value of the Discipline Services are the same than suppliers qualified in both Discipline Services will be used in the selection process. If no suppliers are qualified in the geographical region the selection will be expanded to include all geographical areas. If there are still no suppliers qualified in both Discipline Services PWGSC will start the selection process again using their choice of one of the two Discipline Services.

6.3.1 For all requirements less than \$75,000(applicable taxes included)

Identified users will select a minimum of TWO (2) Suppliers from the list of Suppliers in the geographical location of the project qualified in the proposed Discipline Service(s).

- Selecting, by name, two Suppliers on the list; or
- Selecting by name one Supplier and rotationally selecting one from the list; or
- Rotationally selecting two Suppliers from the list
- meet the security requirement of the proposed service, if applicable

If there are not enough suppliers to meet the minimum selection criteria the selection process will be expanded to include all geographical areas. The selection process would be repeated with the expanded list of suppliers.

The following forms will be used for the first page of the bid solicitation document and the first page of the resulting contract document. These forms are available on the [Electronic Forms Catalogue \(http://publiservice-app.tpsgc-pwgsc.gc.ca/forms/text/search_for_forms-e.html\)](http://publiservice-app.tpsgc-pwgsc.gc.ca/forms/text/search_for_forms-e.html) Web site.

PWGSC-TPSGC 9400-3, Bid Solicitation

PWGSC-TPSGC 9400-4, Contract.

The solicitation documents will be distributed directly to the selected SA Holder by the Identified User.

6.3.2 For all requirements estimated greater than \$75,000 up to \$150,000 (applicable taxes included)

For each requirement, a Notice of Proposed Procurement will be posted on the Government Electronic Tendering Systems (GETS). The solicitation would be restricted to selected suppliers.

PWGSC will select a minimum of three Suppliers from the list of Suppliers in the geographical location of the project qualified in the proposed Discipline Service(s).

- Selecting, by name, one Supplier on the list and rotationally selecting two from the list; or
- Rotationally selecting three Suppliers from the list
- meet the security requirement of the proposed service, if applicable

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If there are not enough suppliers to meet the minimum selection criteria the selection process will be expanded to include all geographical areas. The selection process would be repeated with the expanded list of suppliers.

The solicitation documents will be distributed directly to the selected suppliers by PWGSC.

Bidders will be provided with a minimum of **ten (10) calendar** days in which to respond to the Request for Proposal.

6.3.3 For all requirements estimated greater than \$150,000 to \$400,000 (applicable taxes included)

For each requirement, a Notice of Proposed Procurement will be posted on the Government Electronic Tendering Systems (GETS). The solicitation would be restricted to selected suppliers

PWGSC will select a minimum of four Suppliers from the list of Suppliers in the geographical location of the project qualified in the proposed Discipline Service(s).

- Selecting, by name, one Supplier on the list and rotationally selecting three from the list; or
- Rotationally selecting four Suppliers from the list
- meet the security requirement of the proposed service, if applicable

The solicitation documents will be distributed directly to suppliers by PWGSC.

Bidders will be provided with a minimum of **fifteen (15) calendar** days in which to respond to the Request for Proposal.

6.3.4 For requirements greater than \$400,000 (applicable taxes included)

For each requirement, a Notice of Proposed Procurement will be posted on the Government Electronic Tendering Systems (GETS). The solicitation would be restricted to suppliers with a Supply Arrangement.

The solicitation documents will be distributed directly to interested suppliers by PWGSC.

Bidders will be provided with a minimum of **twenty-one (21) calendar** days in which to respond to the Request for Proposal.

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C. RESULTING CONTRACT CLAUSES

1. General

The conditions of any contract awarded under the Supply Arrangement will be in accordance with the resulting contract clauses of the template used for the bid solicitation.

For any contract to be awarded using the templates in the Annexes:

- a. For requirements **less than 100K**, the below listed general conditions will apply to the resulting contract;

R1210D (2018-06-21), General Conditions (GC) 1 - General Provisions
R1215D (2016-01-28), General Conditions (GC) 2 - Administration of the Contract
R1220D (2015-02-25), General Condition (GC) 3 - Consultant Services
R1225D (2015-04-01), General Condition (GC) 4 - Intellectual Property
R1230D (2018-06-21), General Condition (GC) 5 - Terms of Payment
R1235D (2011-05-16), General Condition (GC) 6 - Changes
R1240D (2018-06-21), General Condition (GC) 7 - Taking the Services Out of the Consultant's Hands, Suspension or Termination
R1245D (2016-01-28), General Condition (GC) 8 - Dispute Resolution
R1650D (2017-11-28), General Condition (GC) 9 - Indemnification and Insurance

- b. For requirements **greater than \$100K**, the below listed general conditions will apply to the resulting contract.

R1210D (2018-06-21), General Condition (GC) 1 - General Provisions
R1215D (2016-01-28), General Condition (GC) 2 - Administration of the Contract
R1220D (2015-02-25), General Condition (GC) 3 - Consultant Services
R1225D (2015-04-01), General Condition (GC) 4 - Intellectual Property
R1230D (2018-06-21), General Condition (GC) 5 - Terms of Payment
R1235D (2011-05-16), General Condition (GC) 6 - Changes
R1240D (2011-05-16), General Condition (GC) 7 - Taking the Services Out of the Consultant's Hands, Suspension or Termination
R1245D (2016-01-28), General Condition (GC) 8 - Dispute Resolution
R1250D (2), General Condition (GC) 9 - Indemnification and Insurance

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ANNEX "A"

Statement of Requirement

Proposed Services

The Required services may include, but are not limited to the following:

i. Mechanical Engineering

Building mechanical systems including: heating systems, ventilation systems including industrial, institutional and commercial ventilation, air conditioning systems, building controls including EMCS, plumbing, fire protection, commissioning, investigations and report.

ii. Electrical Engineering

Building electrical systems including: lighting, security, communications, emergency power and life safety. Electrical entrance and distribution. Discipline building systems, fit-up work, commissioning investigating and reports.

iii. Marine Electrical Engineering

Electrical supply and distribution on marine structures, wharfs and fishing harbours.

Following find an example of a Project / Terms Of Reference / Required Services that may be required for the proposed service(s) detailed in Annex A – 1.0 Proposed Services. The actual Required Services (RS) requested will be detailed in the bid solicitation document and will vary depending on the scope of the project. It may include all Required Services, a single Required Service or a combination of Required services.

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ANNEX "B"

Rotational List

Annex B provides the qualified Suppliers for each Specialty Service by Geographical Region.

The order of the suppliers presented will be used in Part 6B, Selection Process when determining invited suppliers on a rotational basis.

The order of the suppliers will be randomly generated.

The number of names selected is based on the selection process detailed in Part 6B.

The name at the top of the list would be selected first.

If a supplier is selected they move to the bottom of the list even if they choose to not participate in the RFP or they do not receive a contract as a result of a RFP process.

Suppliers may be added to the list after the annual refresh. New suppliers would be added to bottom of the list and the selection process would continue as Part 6B

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ANNEX "C"

Supply Arrangement Reporting

Suppliers must provide a quarterly report on usage of the Supply Arrangement containing the information below.

Supply Arrangement Reporting must be e-mailed to the Contracting Authority.

Please use the Supply Arrangement number in the subject line and clearly included:

- The supply arrangement number for which the data is submitted
- The period for which the data has been accumulated (start date and end date)
- The Total Spend to date by Canada

Supply Arrangement Reporting				
Start Date of SA:			End Date of SA:	
Total Value To Date:				
Total Value for Reporting Period:				
Reporting Start:			Reporting End:	
Invoice #	Description	Date of Contract Award	Date of Completion	Value of Contract

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ANNEX "D"

Doing Business Guide

"Doing Business with PWGSC" appended to the arrangement package is to be inserted at this point and forms part of this document.



Doing Business with PWGSC

Documentation and Deliverables Manual



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Revisions

Version	Date	Description
0.1	August 14 2017	Draft version for consultation.
1.0	January 12, 2018	Original Issuance

1 General

1.1 Effective Date

January 12, 2017

1.2 Authority

This manual is issued by the authority of the Director General, Technical Services, Real Property Branch (RPB), Public Works and Government Services Canada (PWGSC).

1.3 Purpose

This document provides architectural and engineering (A&E) consultants with the requirements for producing deliverables for PWGSC projects in order to ensure a well-documented design process, and facilitate review by PWGSC staff.

1.4 Scope

This document shall apply to design-bid-build projects undertaken by PWGSC on its own behalf as well as for other government departments (OGDs). It is applicable to all regions of PWGSC and can be supplemented with regional addendum.

1.5 Harmonization with Terms of Reference

This document shall be used in conjunction with the project's Project Brief / Terms of Reference (TOR). In case of a conflict between documents, the requirements of the TOR prevail over those of this document.

1.6 Departmental Name Change

In the fall of 2015, Public Works and Government Services Canada (PWGSC) was renamed Public Services and Procurement Canada (PSPC).

This name change is occurring in a phased approach, and for most documents PSPC should be used. However, all contract documents shall use the legal name Public Works and Government Services Canada (PWGSC) until the name has been changed in legislation.

1.7 Terminology

This document utilizes the following terminology:

- “shall” is used to express a requirement, a provision the Consultant is obligated to meet;
- “should” is used to express a recommendation; and
- “may” is used to express an option or that which is permissible within the limits of this document.

1.8 Definitions

Addenda: Changes to the construction documents or tendering procedures, issued during the tendering process.

Construction Documents: The drawings and specifications (including addenda).

Drawings: The graphic means of showing work to be done, as they depict shape, dimension, location, quantity of materials and relationship between building components.

Reports: Written account given of a particular matter after thorough investigation or consideration prepared by the Consultant.

Specifications: Written descriptions of materials and construction processes in relation to quality, colour, pattern, performance and characteristics of materials, installation and quality of work requirements.

2 Construction Documents

2.1 General

This section provides direction to Consultant firms on the preparation of construction documents (namely specifications and drawings) to be submitted to PWGSC for real property projects across Canada.

Specifications, drawings, and addenda shall be complete and clear so that contractors can prepare bids without guesswork.

2.1.1 Principles of PWGSC Contract Documents

Contact documents shall be prepared based on common public procurement principles. PWGSC does not use Canadian Construction Documents Committee (CCDC) documents.

PWGSC is responsible for preparing and issuing the construction contract and the terms and conditions as well as all other related bidding and contractual documents. For detailed information, the standard acquisition clauses and conditions commonly used by PWGSC in the contracting process are available on the buyandsell.gc.ca website.

2.1.2 Translation

When bilingual documents are required in the Terms of Reference, all documentation including drawings, specifications, reports as well as all bidder questions shall be in both official languages.

Ensure that English and French documents are equal in all respects. There can be no statements where one version takes precedence over the other.

2.1.3 Construction Documents Definitions

Unless otherwise indicated in the Project Brief / Terms of Reference, construction document submissions (33%, 50 or 66%, 99%, and 100% / final) shall meet the definitions outlined below. Further discipline based requirements may be included in the TOR.

- 33%: shall demonstrate general intent of design and compliance and alignment with relevant standards. Summary specification required, but not a full specification.
- 50% or 66%: shall show full system, all components, requirements, and lack only minor details on drawings. Specifications shall be well advanced and contain major work and material requirements and lack only minor details.
- 99%: shall be for final review by PWGSC, lacking no detail and complete with a project specific specification.
- 100% (or final): shall address comments by PWGSC as required, signed and sealed by the responsible design professional in compliance with various provincial jurisdiction requirements, ready for tender.

2.1.4 Quality Assurance

It is the sole responsibility of the Consultant firms to undertake their own quality control process and to review, correct, and coordinate their documents (between disciplines). The Consultant shall also ensure the constructability of their design.

2.1.5 Quality Assurance Deliverables

For every construction document submission (33 %, 50 % or 66 %, 99 % and 100 %), the Consultant shall provide:

- a completed and signed Checklist for the Submission of Construction Documents (see Appendix A); and
- an index as per Appendix B.

2.1.6 Terminology & Quantities

The Consultant shall use the term “Departmental Representative” instead of Engineer, PWGSC, Owner, Consultant or Architect. “Departmental Representative” means the person designated in the Contract, or by written notice to the Contractor, to act as the Departmental Representative for the purposes of the Contract, and includes a person, designated and authorized in writing by the Departmental Representative to the Contractor.

Notations such as “verify on site,” “as instructed,” “to match existing,” “example,” “equal to,” “equivalent to,” and “to be determined on site by Departmental Representative” shall not be indicated in specifications nor in drawings, as such wording promotes inaccurate and inflated bids.

Construction documents shall permit bidders to bid accurately. If a precise quantity is impossible to identify (e.g. cracks to be repaired), then provide an estimated quantity for bidding purposes (to be used in conjunction with unit prices). Ensure that the terminology used throughout construction documents is consistent and does not contradict applicable codes and standards.

2.1.7 Units of Measure

All units of measure within drawings and specifications shall be based on the International System of Units (SI).

2.2 Drawings

2.2.1 General

Drawings shall be prepared in accordance with the [PWGSC National CADD Standard](#) and the Canadian Standards Association CSA B78.5-93: *Computer-Aided Design Drafting (Buildings)*. Drawing shall also meet the following criteria:

- dimensions shall be in metric only (no dual dimensioning);
- no trade names present on any drawings; and
- no specification-type notes are on any drawing.

2.2.2 Information to be Included

Drawings should show the quantities of the elements, the configuration of the project, the dimensions, and details of how the work is constructed. There should be no references to future work or information that will be changed by future addenda. The scope of work should be clearly detailed, and elements not in the Contract should be eliminated or kept to an absolute minimum.

2.2.3 Title Blocks and Revision Notes

PWGSC title block shall be used for drawings and sketches (including addenda).

The percent of drawing completion should be included in the revision notes. Revision notes shall be inputted during design development, but cleared for 100% complete drawing (ready for tender).

2.2.4 Drawing Numbers

Drawings should be numbered in sets according to the type of drawing and the discipline involved as indicated in the following table. The requirements of the *PWGSC National CADD Standard* supersede these requirements, where warranted.

Discipline	Drawing
Demolition	D01, D02, etc.
Architecture	A01, A02, etc.
Civil	C01, C02, etc.
Landscaping	L01, L02, etc.
Mechanical	M01, M02, etc.
Electrical	E01, E02, etc.
Structural	S01, S02, etc.
Interior Design	ID01, ID02, etc.

2.2.5 Presentation Requirements

Present the drawings in sets, providing the applicable demolition, site plan, civil, landscaping, architecture, structural, mechanical, and electrical drawings in that order. All drawings should be of uniform standard size.

2.2.6 Legends

Provide a legend of symbols, abbreviations, references, etc., on the front sheet of each set of drawings, or in the case of large sets of drawings, provided the legend immediately after the title sheet and index sheets.

2.2.7 Schedules and Tables

Where schedules or tables occupy entire sheets, locate them at the back of each set of drawings for convenient reference.

2.2.8 North Arrow

Include a north arrow on all plans. Orient all plans in the same direction for easy cross-referencing. Wherever possible, lay out plans so that the north point is at the top of the sheet.

2.2.9 Drawing Symbols

Follow generally accepted drawing conventions, understandable by the construction trades and in accordance with PWGSC publications.

2.2.10 As-Built Drawings

As-built drawings are official record drawings and shall represent as constructed conditions including location and size of equipment, devices, plumbing lines, mechanical and electrical equipment, structural elements etc. As-built drawings shall be updated in CAD, handwritten notes are not acceptable.

2.2.11 Submission Format

Unless otherwise stated in the Terms of Reference, drawing submissions shall be in electronic and hard copy format.

2.2.11.1 Drawing Hard Copy Deliverable Format

Drawing submitted in hard copy shall be:

- printed to scale with black lines on white paper;
- bound with staple or other means into sets, where presentations exceed 50 sheets, the drawings for each discipline may be bound separately for convenience and ease of handling; and
- of a paper size as agreed to with the Departmental Representative.

2.2.11.2 Drawing Electronic Copy Deliverable Format

Drawing submitted electronically shall be provided:

- without password protection or printing restrictions;
- in two formats:
 - PDF/E-1 (in compliance with ISO 24517-1);
 - .dwg format; and
- in accordance with Appendix D.

2.3 Building Information Modelling (BIM)

PWGSC is committed to using non-proprietary or “OpenBIM” standards. As such, the Consultant is not required to use any specific proprietary software format. For the sake of legacy information quality, the Consultant shall use the international standards of interoperability for BIM (IFC) in all cases where models are submitted. Consultants shall work with software that is compliant to this standard.

Where used, BIM shall not replace the submission requirements outlined by this document. Rather, consultants shall submit models in addition requirements outlined herein.

Where BIM is used, models and modelled information shall be submitted in the following two formats:

- .native (whichever format is native to the Modelling software used by the Consultant);
- .ifc (Industry Foundation Classification – IFC4 – [ISO 16739:2013](#)); and

All Modelled Information, and Model Information Exchanges shall conform to:

- Project-specific requirements, such as they are laid out in the Project Execution Plan, Project Documentation and Model Element Table; and
- The project-identified BIM Standards & Guidelines.

Models for electronic submissions shall be organized as per Appendix D.

2.4 Specifications

2.4.1 National Master Specification

Specifications prepared for PWGSC shall follow the most current version of the [National Master Specification \(NMS\)](#) format offered by the National Research Council.

The Consultant has overriding responsibility for the content of construction project specifications. For each specification, he or she shall edit, amend, and supplement the NMS template as deemed necessary to produce an appropriate project specification free of conflict and ambiguity. The Consultant should refer to the latest *NMS User's Guide* and *NMS Development Guide* issued by the National Research Council for further guidance on using the NMS.

2.4.2 Index

Specifications shall include an index which list all specification sections, including numbers of pages, as well as the division and section names in the format shown in Appendix B.

2.4.3 Specification Organization

Narrow scope sections describing single units of work should be used for complex work. Broad scope sections may be used for less complex work. The Consultant shall use consistently for the entire specification either the NMS 1/3 page format, the NMS 2/3-page format or the Construction Specifications Canada (CSC) full-page format.

Start each section on a new right hand page and show the PWGSC project number, NMS section title, NMS section number, page number, and specification date on each page. The project title, and Consultant's name are not to be indicated.

2.4.4 Standards

Code and standard references in the NMS may not be up to date, the Consultant shall ensure that the project specification use the current applicable edition of all references quoted.

2.4.5 Specifying Materials

Specifications should make use of generic names in referencing construction materials. The Consultant should refer to the latest version of the *NMS Development Guide* issued by the National Research Council for further details. The term "Acceptable Manufacturers" shall not be used, as this restricts competition and does not ensure the actual material or product will be acceptable.

2.4.5.1 Alternate Products and Materials

Alternative materials to those specified may be considered during the solicitation period; however, the onus will be on the Consultant to review and evaluate all requests for approval of alternative materials.

2.4.5.2 Sole Sourcing

Sole sourcing of materials and/or work is only allowed in exceptional and justifiable circumstances. Prior to including sole source materials and/or work, the Consultant shall contact the Departmental Representative to obtain approval for the sole sourcing. Consultants shall provide proper justification for all individual sole source requirements.

Sole sourcing for materials and work may be required when performing work on existing proprietary systems, such as fire alarm systems, building automation systems (BAS) etc.

Wording for the sole source of work should be in Part 1 as follows:

Designated Contractor

- .1 Retain the services of [] to do the work of this section.

Wording for the sole source of building automation system should be in Part 1 as follows:

Designated Contractor

- .1 Retain the services of [] or its authorized representative to complete the work of all building automation system sections.

Wording for the sole source of building automation system should be in Part 2 as follows:

Materials

- .1 There is an existing [] system presently installed in the building. All materials must be selected to ensure compatibility with the existing [] system.

Wording for the sole source of materials (i.e. fire alarm systems) should be in Part 2 as follows:

Acceptable Materials

- .1 The only acceptable materials are [].

2.4.6 Measurement for Payment

The measurement for payment shall be provided in lump sum or unit prices.

2.4.6.1 Unit Prices

Unit prices should only be used in instances where the quantity can only be roughly estimated (e.g. earth work). The approval of the Departmental Representative shall be sought in advance of their use. In each applicable NMS section where unit prices are used, add new or replace paragraph title “Measurement for Payment” with “Unit Prices.” and use the following wording:

[The work for this section] or [define the specific work if required, e.g. rock excavation] will be paid based on the actual quantities measured on site and the unit prices stated in the Bid and Acceptance Form.

Provide a unit price table, sample shown below, to designate the work to which a unit price arrangement applies. The table shall include:

- the price per unit and the estimated total price for each item listed;
- a complete description of each type of work covered; and
- items as described in the referenced specification section.

Item	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity	Price per Unit GST/HST extra	Estimated Total Price GST / HST extra
TOTAL ESTIMATED AMOUNT						

2.4.7 Cash Allowances

Construction documents shall be complete and contain all of the requirements for the contractual work. Cash allowances are to be used only under exceptional circumstances (i.e. utility companies, municipalities), where no other method of specifying pricing is appropriate.

To include cash allowances, obtain approval from the Departmental Representative in advance, and use Section 01 21 00 – Allowances of the NMS to specify the criteria.

2.4.8 Warranties

The 12-month warranty period specified in PWGSC’s standard acquisition clauses and conditions with regard to the contract should typically be retained as is. Extended warranties should only be used where experience has shown that serious defects are likely to appear after expiry of the standard one-year warranty period. When necessary to extend beyond the 12 month warranty period,

use the following wording in Part 1 of the applicable technical sections, under the heading “Extended Warranty”:

For the work of this Section [____], the 12 month warranty period is extended to [____] months.

Where the extended warranty is intended to apply to a particular part of a specification section, modify the previous text as follows:

For [____], the 12 month warranty period is extended to [____] months.

2.4.9 Miscellaneous Requirements

Paragraphs noted as “Scope of Work” shall not be included. Within Part 1 – General of specifications, the paragraphs “Summary” and “Section Includes” shall not be utilized.

2.4.10 Specification Coordination

All sections of the specifications shall be coordinated, including the “Related Sections” portion of specifications and appendices. References to non-existent sections shall not be present within the specifications.

2.4.11 Regional Guide

The Consultant should contact the Departmental Representative to obtain the region’s requirements for Division 01 (General Requirements) or other short-form specifications as appropriate.

2.4.12 Health and Safety

All project specifications are required to include Section 01 35 29 – Health and Safety Requirements. Confirm with the Departmental Representative to determine if there are any instructions to meet regional requirements.

2.4.13 Subsurface Investigation Reports

If required, subsurface investigation report(s) shall be included after Section 31, and the following paragraph added to Section 31:

Subsurface Investigation Report(s)

- .1 Subsurface investigation report(s) are included in the specification following this section.

If the Departmental Representative determines that it is not practical to include the subsurface investigation report(s), alternate instructions will be provided.

Where tender documents are to be issued in both official languages, the subsurface investigation report(s) shall be issued in both languages.

In addition to providing the subsurface investigation report(s), the foundation information required by the current *National Building Code of Canada* (Division C, Part 2, 2.2.4.6) shall be included on foundation drawings.

2.4.14 Prequalification and Pre-Award Submissions

Do not include in the specifications any mandatory contractor and/or subcontractor prequalification or pre-award submission requirements that could become a contract award condition. If a

prequalification process or a pre-award submission is required, contact the Departmental Representative.

There should be no references to certificates, transcripts, samples, the license numbers of a trade or subcontractor, or any other documentation or item being included with the bid.

2.4.15 Contracting Issues

Specifications describe the workmanship and quality of the work and shall not contain any contracting issues. Division 00 of the NMS is not used by PWGSC, except for the Seals page 00 01 07 and the Table of Contents 00 01 10. In specifications, remove all references to the following:

- general instructions to bidders;
- general conditions;
- Canadian Construction Documents Committee (CCDC) documents;
- priority of documents;
- security clauses and clearances;
- terms of payment or holdback;
- the tendering process;
- bonding requirements;
- insurance requirements;
- alternative and separate pricing;
- site visits (mandatory or optional); and
- the release of lien and deficiency holdbacks.

2.4.16 Specification Submission Format

Unless otherwise stated in the Terms of Reference, specification submissions shall be in electronic and hard copy format.

2.4.16.1 Specification Hard Copy Deliverable Format

Specifications submitted in hard copy shall be printed on both sides of 216 mm x 280 mm white bond paper.

2.4.16.2 Specification Electronic Copy Deliverable Format

Specifications submitted electronically shall be:

- provided in PDF/A (in compliance with ISO 19005) format, without password protection and printing restrictions; and
- in accordance with Appendix D.

2.5 Addenda

2.5.1 Format

Prepare addenda using the format shown in Appendix C. No signature-type information is to appear.

Every page of the addendum (including attachments) shall be numbered consecutively. All pages shall have the PWGSC project number and the appropriate addendum number. Sketches shall appear in the PWGSC format, signed and sealed.

No Consultant information (name, address, phone #, Consultant project #, etc.) should appear in addenda or their attachments (except on sketches).

2.5.2 Content

Each item should refer to an existing paragraph of the specification or note/detail on the drawings. The clarification style is not acceptable.

Where there are many or major changes to a section or drawing, consider deleting the entire section or drawing and replacing it with a new version.

3 Cost Estimates

3.1 Cost Estimates Submission Formats

3.1.1 Format

Construction cost estimates for projects shall be prepared in the elemental analysis format, which is in accordance with the latest edition issued by the Canadian Institute of Quantity Surveyors (CIQS) for all PWGSC regions excluding Quebec. Within Quebec region the cost estimates shall be prepared in the Unifomat II format.

3.1.2 Contents

All cost estimates shall contain the following:

- introduction narrative complete with an outline description of the cost estimate basis;
- description of information obtained and used in the cost estimate including the date received;
- listing of notable inclusions;
- listing of notable exclusions;
- listing of items/issues carrying significant risk;
- summary of the itemized cost estimate;
- itemized breakdown of cost estimate by elemental analysis for Class B, C, and D; and
- itemized breakdown of costs estimate in both elemental analysis and National Master Specification division format for Class A, including measured quantities, unit rate pricings and amounts for each item of work.

Allowances, if deemed necessary by Consultant, shall contain the following:

- design allowance to cover unforeseen items during design phase;
- escalation allowance for changes in market conditions between the date of the cost estimate and the date tender is called;
- construction allowance to cover unforeseen items during construction; and
- the basis of calculations of the above allowances.

3.2 Classes of Cost Estimates for Construction Projects

PWGSC applies a detailed, four-level classification using the terms Class A, B, C and D. Apply these estimate classifications at the project stages as defined in the TOR. For projects required to be submitted to Treasury Board (TB) for approval: an indicative estimate shall be at least a Class D and a Substantive Estimate shall be at least a Class B.

3.2.1 Class D (Indicative) Estimate

Based upon a comprehensive statement of requirements, an outline of potential solutions and/or functional program, this estimate is to provide an indication of the final project cost that will enable ranking to be made for all the options being considered. This cost estimate shall be prepared in elemental analysis format. The level of accuracy of a Class D cost estimate shall be such that no more than a 20% design allowance is required.

3.2.2 Class C Estimate

Based on schematic/conceptual design and/or comprehensive list of project requirements, this estimate shall be adequately detailed and shall be sufficient for making the correct investment decision. This cost estimate shall be based on measured quantities of all items of work and prepared

in elemental analysis format. The level of accuracy of a Class C cost estimate shall be such that no more than a 15% design allowance is required.

3.2.3 Class B (Substantive) Estimate

Based on design development drawings and outline specifications, which include the preliminary design of all major systems and subsystems, as well as the results of all site/installation investigations, this estimate shall provide for the establishment of realistic cost objectives and be sufficient to obtain effective project approval.

This cost estimate shall be based on measured quantities of all items of work and prepared in elemental analysis format. The level of accuracy of a Class B cost estimate shall be such that no more than a 10% design allowance is required.

3.2.4 Class A (Pre-Tender) Estimate

Based on completed construction drawings and specifications prepared prior to calling competitive tenders, this estimate shall be sufficient to allow a detailed reconciliation and/or negotiation with any contractor's tender submission. This cost estimate shall be based on fully measured quantities of all items of work and prepared in both elemental analysis and Trade division format as per MasterFormat™. The level of accuracy of a Class A cost estimate shall be such that no more than a 5% design allowance is required.

4 Project Schedules

4.1 Schedule Format

Project schedules shall be submitted in the .mpp file extension (compatible with MS Project). The schedule shall include:

- major and minor milestones;
- activities representing discrete elements of work assigned to one person which:
 - are named using verb-noun combination (i.e. Review Design Development Report);
 - contain realistic durations in days;
- project logic linking activities with appropriate relationships finish-start (FS), finish-finish (FF), start-start (SS); and
- Identification of the critical path activities.

4.2 Progress Report

The progress report shall detail the progress of each activity up to the date of the report. It shall also include any logic changes made, both historic and planned; projections of progress and completion; as well as the actual start and finish dates of all activities being monitored.

The contents of each progress report will vary depending on the requirements at each project phase. A progress report should include:

- an executive summary;
- a narrative report;
- a variance report;
- a criticality report;
- an exception report (as required);
- the master schedule with cash flow projections; and
- the detailed project schedule (network diagram or bar charts).

4.2.1 Executive Summary

The executive summary should provide a synopsis of narrative, variance, criticality and exception report, and is not to exceed one page.

4.2.2 Narrative Report

The project narrative shall detail the work performed to date, comparing work progress to planned, and presenting current forecasts. This report should summarize the progress to date, explaining current and possible deviations and delays and the required actions to resolve delays and problems with respect to the Detailed Schedule, and Critical Paths.

4.2.3 Variance Report

The variance report, with supporting schedule documentation, should detail the work performed to date and compare work progress to work planned. It should summarize the progress to date and explain all causes of deviations and delays and the required actions to resolve delays and problems with respect to the detailed schedule and critical paths. The variance report shall be presented in the following format:

Paper size:	Letter
Paper format:	Portrait
Title format:	Project Title, Report Type, Print Date, Data Date, Revision Block
Body text:	Narratives for each report to match other reports
Columns:	Activity ID, Activity Name, Planned Finish, Revised Finish, Variance, Activity % Complete

4.2.4 Criticality Report

The criticality report identifies all activities and milestones with negative, zero, and up to five days' Total Float. It is used as a first sort for ready identification of the critical paths, or near-critical paths, through the entire project. The criticality report shall be presented in the following format:

Paper size:	Letter
Orientation:	Portrait
Title format:	Project Title, Report Type, Print Date, Data Date, Revision Block
Body text:	Narratives for each report to match other reports
Columns:	Activity ID, Activity Name, Duration, Start, Finish, Activity % Complete, Total Float

4.2.5 Exception Report

The exception report shall be provided when unforeseen or critical issues arise. The Consultant shall advise the Departmental Representative and submit the details and proposed solutions in the form of an exception report. The report shall include sufficient description and detail to clearly identify:

- scope changes, including identifying the nature, reason, and total impact of all identified and potential project scope changes affecting the project;
- delays and accelerations, including identifying the nature, reason, and total impact of all identified and potential duration variations; and
- options enabling a return to the project baseline, including Identifying the nature and potential effects of all proposed options for returning the project within the baselined duration.

The exception report shall be provided in the following format:

Paper size:	Letter
Orientation:	Portrait
Title format:	Project Title, Report Type, Print Date, Data Date, Revision
Body text:	Narrative to match other reports

Paper size:	Letter
Orientation:	Landscape
Title format:	Project Title, Report Type, Print Date, Data Date, Revision
Columns:	Activity ID, Activity Name, Duration, Remaining Duration, Start, Finish, Total Float

4.2.6 Master Schedule

A master schedule including cash projection shall be provided in the following format:

Paper size: 11X17
Orientation: Landscape
Columns: Activity ID, Activity Name, Duration, Activity % Complete, Start, Finish,
Total Float
Footer format: Project Title, Report Type, Print Date, Data Date, Revision Block
Sorting: Early Start, then Early Finish, then Activity ID based on the WBS.

4.2.7 Detailed Project Schedule

A detailed project schedule shall be provided along with a network diagram or bar charts in the following format:

Paper size: 11X17
Orientation: Landscape
Columns: Activity ID, Activity Name, Duration, Activity % Complete, Start, Finish,
Total Float
Footer format: Project Title, Report Type, Print Date, Data Date, Revision Block
Sorting: Early Start, then Early Finish, then Activity ID based on the WBS.

Appendix A Checklist for the Submission of Construction Documents

Date:	
Project Title:	Project Location:
Project Number:	Contract Number:
Consultant's Name:	PWGSC Departmental Representative
Review Stage (stages may vary at discretion of project team): 33% <input type="checkbox"/> 50% or 66% <input type="checkbox"/> 99% <input type="checkbox"/> 100% <input type="checkbox"/>	

Drawings\Design			
Item	Verified by	Explanations	Action By
1 Index			
1a The index shows a complete listing of drawing titles and numbers.			
2 Title Blocks			
2a The title block is as per the <i>PWGSC National CADD Standard</i> .			
3 Units			
3a All units of measure are metric.			
4 Trade Names			
4a Trade names are not used.			
5 Specification Notes			
5a There are no specification-type notes.			
6 Terminology			
6a The term "Departmental Representative" is used instead of "Engineer," "PWGSC," "Owner," "Consultant," or "Architect."			
6b Notations such as "verify on site," "as instructed," "to match existing," "example," "equal to," "equivalent to," and "to be determined on site by" are not used.			
7 Information to be included			
7a The project quantities, configurations, dimensions, and construction details are included.			
7b References to future work and elements not in the tender documents do not appear or are kept to an absolute minimum and clearly marked.			

Drawings\Design			
Item	Verified by	Explanations	Action By
8 Quality Assurance			
8a Coordination review of the design between various disciplines has been completed by the Consultant.			
8b Constructability review of design has been performed.			
9 Signing and Sealing			
9a Every final drawing bears the seal and signature of the responsible design professional in compliance with various provincial jurisdiction requirements.			

Specifications			
Item	Verified by	Explanations	Action by
1 National Master Specification			
1a The current edition of the National Master Specification (NMS) has been used.			
1b Sections have been included for all work identified on drawings and sections have been edited.			
2 Index			
2a The index shows a complete list of specifications sections with the correct number of pages.			
3 Organization			
3a Either the NMS 1/3- or 2/3-page format or the Construction Specifications Canada full-page format is used consistently for the entire specifications.			
3b Each section starts on a new page and the project number, section title, section number, page number and date is shown on each page.			
3c The Consultant's name is not indicated.			
4 Terminology			
4a The term "Departmental Representative" is used instead of "Engineer," "PWGSC," "Owner," "Consultant," or "Architect."			
4b Notations such as "verify on site," "as instructed," "to match existing," "example," "equal to," "equivalent to," and "to be determined on site by" are not used.			
5 Dimensions			
5a Dimensions are provided in metric only.			
6 Standards			
6a The current edition of all references quoted is used.			
7 Specifications Materials			
7a The method of specifying materials uses recognized standards. Actual brand names and model numbers are not specified.			
7b Materials are specified using standards and performance criteria.			

Specifications			
Item	Verified by	Explanations	Action by
7c Non-restrictive, non-trade name “prescription” or “performance” specifications are used throughout.			
7d The term “Acceptable Manufacturers” is not used.			
7e No sole sourcing has been used.			
7f If sole sourcing has been used, the correct wording has been used and a justification, estimate, and specification have been provided to the Departmental Representative for the sole-sourced products.			
8 Measurement for Payment			
8a Unit prices are used only for work that is difficult to estimate.			
9 Cash Allowances			
9a No cash allowances have been used or if they have, approval from the Departmental Representative has been received.			
10 Miscellaneous Requirements			
10a No paragraphs noted as “Scope of Work” are included.			
10b In Part 1 - General of any section, the paragraphs “Summary” and “Section Includes” are not used.			
11 Specification Coordination			
11a The list of related sections and appendices are coordinated.			
12 Health and Safety			
12a Section 01 35 29.06 – Health and Safety Requirements is included.			
13 Subsurface Investigation Reports			
13a Subsurface investigation reports are included after Section 31.			
14 Prequalifications			
14a There are no mandatory contractor and/or subcontractor prequalification requirements or references to certificates, transcripts, licence numbers of a trade or subcontractor, or other such documentation or item included in the bid.			

Specifications			
Item	Verified by	Explanations	Action by
15 Contracting Issues			
15a Contracting issues do not appear in the specifications.			
15b Division 00 of the NMS is not used except 00 01 07 (Seals Page) and 00 01 10 (Table of Contents).			
16 Quality Assurance			
16a There are no specification clauses with square brackets “[]” or lines “—” indicating that the document is incomplete or missing information.			
17 Signing and Sealing			
17a Every final specification bears the seal and signature of the responsible design professional as required. Seals and signatures shall be shown in NMS section 00 01 07.			

I confirm that the drawings and specifications have been thoroughly reviewed and that the items listed above have been addressed or incorporated. I acknowledge and accept that by signing, I am certifying that all items noted above have been addressed.

Consultant's Representative: _____

Firm name: _____

Signature: _____ Date: _____

Appendix B Drawings and Specifications Table of Contents Template

B.1 General

List all drawings by number and title.

For specifications, list all divisions, sections (by number and title), and the number of pages in each section.

B.2 Sample Table of Contents

Project No:	Table of Contents	Index
<hr/>		Page 1 of ____

DRAWINGS:

C-1	Civil
L-1	Landscaping
A-1	Architecture
S-1	Structural
M-1	Mechanical
E-1	Electrical

SPECIFICATIONS:

DIVISION	SECTION	NO. OF PAGES
01	01 00 10 – General InstructionsXX
	01 14 25 – Designated Substances ReportXX
	01 35 30 – Health and SafetyXX
23	23 xx xx	
26	26 xx xx	

Appendix C Addenda Formatting Template

C.1 Instructions

To re-issue a drawing with an addendum:

- indicate the drawing number and title; and
- list the changes or indicate the revision number and date.

To re-issue a specification with an addendum:

- indicate the section number and title; and
- list all changes (i.e. deletions, additions, and replacements) by article or paragraph.

The addendum, drawings and specifications should be sent as separate files.

C.2 Sample Addendum

Date: _____

Addendum Number: _____

Project Number: _____

**The following changes in the bid documents are effective immediately.
This addendum will form part of the construction documents.**

DRAWINGS:

- 1 A1 Architecture
.1

SPECIFICATIONS:

- 1 Section 01 00 10 – General Instructions
 - .1 Delete article (xx) entirely.
 - .2 Refer to paragraph (xx.x),
delete the following: ...
and replace with the following: ...
- 2 Section 23 05 00 – Common Work Results - Mechanical
 - .1 Add new article (x) as follows:

Appendix D Directory Structure and Naming Convention Standards for Construction Tender Documents

D.1 Electronic Submissions

Electronic submittals of drawings, specification and models shall be in the following format unless otherwise specified in the Terms of Reference or instructed by the Departmental Representative:

- On media burned to read only memory (ROM) on either CD-ROM or DVD+R where:
 - CD-ROMs comply with ISO 9660:1988 standards;
 - DVD+Rs are 4.7 GB, single-sided, single-layer and comply with ISO/IEC 17344:2006 standards;
 - media is “closed” upon completion of burning; and
 - media is usable in such a way that files may be accessed and copied from it.

If BIM model size is greater than storage capacity of a DVD, refer to Terms of Reference or contact the Departmental Representative for transmission instructions.

Some projects may require the Consultant to upload files to an electronic system outlined in the Terms of Reference or as instructed by the Departmental Representative.

D.2 Directory Structure

D.2.1 1st Tier Subfolder

The 1st tier of the directory structure shall be “Project #####” where ##### represents each digit of the Project Number. The Project Number must always be used to name the 1st tier folder and it is always required. Free text can be added following the Project Number, to include such things as a brief description or the project title.

D.2.2 2nd Tier Subfolder

The 2nd tier of the directory structure shall consist of: “Bilingual - Bilingue”, “English” and “Français” folders. The folders of the 2nd tier cannot be given any other names since the Government Electronic Tendering System (GETS) uses these names for validation purposes. At least one of the “Bilingual - Bilingue”, “English” and “Français” folders is always required, and these must always have one of the applicable subfolders of the 3rd tier.

D.2.3 3rd Tier Subfolder

The 3rd tier of the directory structure shall consist of: “Drawings - Dessins”, “Drawings”, “Models”, “Specifications”, “Reports”, “Dessins”, “Modèles”, “Devis” and “Rapports”. The folders of the 3rd tier cannot be given any other names since GETS also uses these names for validation purposes. There must be always at least one of the applicable 3rd tier folder in each document.

D.2.4 4th Tier Subfolder - Drawings

The 4th-tier subfolders for Drawings should reflect the various disciplines of the set of drawings. Because the order of appearance of the subfolders on the screen will also determine the order of printing, it is necessary to start with a number the identification name of the subfolders in the “Drawings – Dessins”, “Drawings” and “Dessins” folders. The first subfolder must be always reserved for the Title Page and/or the List of Drawings unless the first drawing of the set is an actual numbered discipline drawing.

The 4th tier “Drawings” and “Dessins” folder shall follow the naming convention:

- Y

Where:

= a two digit number ranging from 01 to 99 (leading zeros must be included)

Y = the title of the folder Example: 03 – Mechanical

For the “Drawings - Dessins” folder:

= Y - Z

Where:

= a two digit number ranging from 01 to 99 (leading zeros must be included)

Y = the English title of the folder

Z = the French title of the folder

Example:

04 - Electrical – Électrique

The numbering of the 4th tier subfolders is for sorting purposes only and is not tied to a specific discipline. For example, “Architecture” could be numbered 05 for a project where there is four other disciplines before “Architecture” in the set of drawings or 01 in another project where it’s the first discipline appearing in the set.

The order of the drawings shall be the same as in the hard copy set. GETS will sort each drawing for both screen display and printing as per the following rules:

- The alphanumerical sorting is done on an ascending order;
- The alphanumerical order of the subfolders determines the order of appearance on the screen as well as the order of printing (as an example: all the drawing PDF files in the 01 sub-older will be printed in alphanumerical order before the drawings in the 02 sub- folder etc.);

Each drawing PDF file within each subfolder will also be sorted alphanumerically. This will determine the order of appearance on the screen as well as the order of printing (i.e. Drawing A001 will be printed before Drawing A002, Drawing M02 before Drawing M03, etc.).

D.2.5 4th-Tier Subfolders for Specifications

The “Specifications” and “Devis” folders must have 4th tier subfolders created to reflect the various elements of the specifications. Because the order of appearance of the subfolders on the screen will also determine the order of printing, it is necessary to start with a number the identification name of the subfolders in the “Specifications” and “Devis” folders.

The 4th tier subfolders for specifications must adhere to the following standard naming convention for the “Specifications” and “Devis” folders:

- Y

Where:

= a two digit number ranging from 01 to 99 (leading zeros must be included)

Y = the title of the folder

Example:

02 – Divisions

Numbering of the 4th tier subfolders is for sorting purposes only and is not tied to an element of the specifications.

It is essential to ensure that the order of the elements of the specifications on the CD-ROM be exactly the same as in the hard copy. GETS will sort each element of the specifications for both screen display and printing as per the following rules:

- The alphanumerical sorting is done on an ascending order.
- The alphanumerical order of the subfolders determines the order of appearance on the screen as well as the order of printing (as an example: all the specifications PDF files in the 01 subfolder will be printed, in alphanumerical order before the PDF files in the 02 subfolder, etc.).
- Each specifications PDF file within each subfolder will also be sorted alphanumerically. This will determine the order of appearance on the screen as well as the order of printing (i.e. Division 01 will be printed before Division 02, 01 - Appendix A before 02 - Appendix B, etc.).

D.2.6 Directory Structure Example

The following is an example of the directory structure for the tender document, refer to previous sections for requirements, and use only sections applicable to the given project:

```
Project #####
  Bilingual – Bilingue
    Drawings – Dessins
      01 - Drawing List – Liste des dessins
      02 – Demolition – Démolition
      03 – Architecture – Architectural
      04 – Civil – Civil
      05 – Landscaping - Aménagement paysager
      06 – Mechanical – Mécanique
      07 – Electrical – Électricité
      08 – Structural - Structural
      09 – Interior Design – Aménagement intérieur
  English
    Drawings
      01 - Drawing List
      02 – Demolition
      03 – Architecture
      04 – Civil
      05 – Landscaping
      06 – Mechanical
      07 – Electrical
      08 – Structural
      09 – Interior Design
    ...
    Models
    Specifications
      01 – Index
      02 – Divisions
      03 – Appendices
    Reports
  Français
    Dessins
    Modèles
    Devis
    Rapports
```

D.3 Naming Convention for PDF Files

Each drawing, specifications division or other document that are part of the tender documents must be converted in PDF format (without password protection) in accordance with the following standard naming convention and each PDF file must be located in the appropriate subfolder of the directory structure.

D.3.1 Drawing File Names

Each drawing must be a separate single page PDF file. The naming convention of each file shall be:

X### - Y

Where:

X = the letter or letters from the drawing title block (“A” for Architecture or “ID” for Interior Design for example) associated with the discipline

= the drawing number from the drawing title block (one to three digits)

Y = the drawing name from the drawing title block (for bilingual drawings, the name in both English and French is to appear).

Example:

A001 - First Floor Details

Each drawing that will be located in the appropriate discipline 4th tier subfolders must be named with the same letter (“A” for Architecture Drawings for example) and be numbered. The drawing number used to name the PDF file must match as much as possible the drawing number of the actual drawing (the exception being when leading zeros are required).

The following important points about drawings are to be noted:

- The drawing PDF files within each subfolder are sorted alphanumerically for both displaying and printing. If there are more than 9 drawings in a particular discipline the numbering must use at least two numerical digits (i.e. A01 instead of A1) in order to avoid displaying drawing A10 between A1 and A2. The same rule applies when there are more than 99 drawings per discipline i.e. three digits instead of two must be used for the numbering (for example M003 instead of M03);
- If drawing PDF files are included in the “Bilingual - Bilingue” folder, these cannot be included as well in the “English” and/or “Français” folders;
- If drawings not associated with a particular discipline are not numbered (title page or list of drawings for example), these will be sorted alphabetically. While this does not represent a problem if there is only one drawing in the subfolder, it could disrupt the order when there are two or more drawings. If the alphabetical order of the drawings name does not represent the order on the hard copy set, the drawings are to be named as per the following standard convention when converted in PDF format to ensure proper display and printing order.

D.3.2 Specifications

Each specifications division must be a separate PDF file and all pages contained in each PDF file must have the same physical size (height, width). The drawings and specifications index must also be a separate PDF file. If there are other documents that are part of the Specifications (e.g. Appendix or other) these are to be separate PDF files as well.

D.3.3 Documents Other Than Specifications Divisions

Because PDF files within the Specifications subfolders are sorted alphanumerically (in ascending order) for both on screen display and printing order, all files that appear in folders other than the “Divisions” subfolder must be named using a number:

- Y

Where:

= Two digit number ranging from 01 to 99 with leading zeros required

Y = Name of the document

Example:

01 – Drawings and Specifications Index

D.3.4 Specifications Divisions

The specifications divisions must be named as follows:

Division ## - Y

Where:

Division ## = the actual word “Division” followed by a space and a two digit number ranging from 01 to 99 (with leading zeros required)

Y = name of the Specifications Division as per CSC/CSI MasterFormat™

Example:

Division 05 – Metals

The Numbering of the Divisions cannot be altered from CSC/CSI MasterFormat™ even if some Divisions are not used in a given project. For example, Division 05 will always remain Division 05 even if Division 04 is not used for a given project.

D.4 Media Label

The CD-ROM or DVD+R shall be labeled with the following information:

Project Number / Numéro de projet

Project Title / Titre du projet

Documents for Tender / Documents pour appel d'offres

Disk X of/de X

Example:

Project 123456 / Projet 123456

Repair Alexandra Bridge / Réparation du pont Alexandra

Documents for Tender / Documents pour appel d'offres

Disk 1 of/de 1