

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
**Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada**
PO Box 1408, Room 100
167 Lombard Ave.
Winnipeg
Manitoba
R3C 2Z1
Bid Fax: (204) 983-0338

REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION

**Proposal To: Public Works and Government
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

| | |
|--|--|
| Title - Sujet Linear Irrigation System | |
| Solicitation No. - N° de l'invitation 01633-130444/A | Date 2013-01-09 |
| Client Reference No. - N° de référence du client AGR | |
| GETS Reference No. - N° de référence de SEAG PW-\$WPG-202-8375 | |
| File No. - N° de dossier WPG-2-35311 (202) | CCC No./N° CCC - FMS No./N° VME |
| Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-02-19 | |
| Time Zone Fuseau horaire Central Standard Time CST | |
| F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/> | |
| Address Enquiries to: - Adresser toutes questions à: Kozak, Tammy | |
| Buyer Id - Id de l'acheteur wpg202 | |
| Telephone No. - N° de téléphone (204) 984-8825 () | FAX No. - N° de FAX (204) 983-7796 |
| Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF AGRICULTURE AND AGRI-FOOD AAFC Brandon Research Centre 2701 Grand Valley Road BRANDON Manitoba R7A 5Y3 Canada | |

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

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

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

Issuing Office - Bureau de distribution

Public Works and Government Services Canada - Western
Region
PO Box 1408, Room 100
167 Lombard Ave.
Winnipeg
Manitoba
R3C 2Z1

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PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with the requirement.

2. Statement of Work

The Work to be performed is detailed under Article 2 of the resulting contract clauses.

3. Debriefings

After contract award, bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual*

(<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2012-11-19) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

1.1 SACC Manual Clauses

B1000T (2007-11-30), Condition of Material

B4024T (2006-08-15), No Substitute Products

2. Submission of Bids

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

3. Enquiries - Bid Solicitation

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

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

4. Applicable Laws

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

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

5. Mandatory Site Visit

It is mandatory that the Bidder or a representative of the Bidder visit the work site. Arrangements have been made for site visit to be held on January 29, 2013 at 12:30 at the Brandon Research Centre. Bidders must communicate with the Contracting Authority no later than 2 day(s) before the scheduled visit to confirm attendance and provide the names of the person(s) who will attend. Bidders will be required to sign an attendance form. Bidders should confirm in their bids that they have attended the site visit. Bidders who do not attend or send a representative will not be given an alternative appointment and their bids will be rejected as non-compliant. Any clarifications or changes to the bid solicitation resulting from the site visit will be included as an amendment to the bid solicitation.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

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

Section I: Technical Bid (1hard copies)
 Section II: Financial Bid (1hard copies)
 Section III: Certifications (1 hard copies)

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

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

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

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

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green

Procurement

(<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

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

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Goods and Services Tax (GST) or Harmonized Sales Tax (HST) must be shown separately, if applicable.

1.1 Exchange Rate Fluctuation

C3011T (2010-01-11), Exchange Rate Fluctuation

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

1.1 Technical Evaluation

1.1.1 Mandatory Technical Criteria

- (a) Bidders must have the ability to provide the goods and perform the services as described in Annex "A" . Bidders are requested to provide documentation to demonstrate compliance.
- (b) Goods must be received by March 31, 2013.

1.2 Financial Evaluation

SACC Manual Clause A0222T (2010-01-11), Evaluation of Price

2. Basis of Selection

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and related documentation to be awarded a contract. Canada will declare a bid non-responsive if the required certifications and related documentation are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications, to provide the related documentation or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

- 1.1.1** By submitting a bid, the Bidder certifies, for himself and his affiliates, to be in compliance with the Code of Conduct and Certifications clause of the Standard instructions. The related documentation hereinafter mentioned will help Canada in confirming that the certifications are true. By submitting a bid, the Bidder certifies that it is aware, and that its affiliates are aware, that Canada may request additional information, certifications, consent forms and other evidentiary elements proving identity or eligibility. Canada may also verify the information provided by the Bidder, including the information relating to the acts or convictions specified herein, through independent research, use of any government resources or by contacting third parties. Canada will declare non-responsive any bid in respect of which the information requested is missing or inaccurate, or in respect of which the information contained in the certifications is found to be untrue, in any respect, by Canada. The Bidder and any of the Bidder's affiliates, will also be required to remain free and clear of any acts or convictions specified herein during the period of any contract arising from this bid solicitation.

Bidders who are incorporated, including those bidding as a joint venture, must provide with their bid or promptly thereafter a complete list of names of all individuals who are currently directors of the Bidder. Bidders bidding as sole proprietorship, including those bidding as a joint venture, must provide the name of the owner with their bid or promptly thereafter. Bidders bidding as societies, firms, partnerships or associations of persons do not need to provide lists of names. If the required names have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply will render the bid non-responsive. Providing the required names is a mandatory requirement for contract award.

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) (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html>) for any or all individuals aforementioned within the time specified. Failure to provide such Consent Forms within the time period provided will result in the bid being declared non-responsive.

2. Additional Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the

Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

2.1 Federal Contractors Program - Certification

Suppliers who are subject to the Federal Contractors Program (FCP) and have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive federal government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- a.() is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- b.() is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;
- c.() is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC, having not bid on requirements of \$200,000 or more;
- d.() has not been declared an ineligible contractor by HRSDC, and has a valid certificate number as follows: _____.

Further information on the FCP is available on the HRSDC Web site.

2.2 Former Public Servant Certification

Contracts with former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny, and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts with FPS, bidders must provide the information required below.

Definitions

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

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

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

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

Former Public Servant in Receipt of a Pension

As per the above definitions, is the Bidder a FPS in receipt of a pension? Yes () No ()

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

a.name of former public servant;

b.date of termination of employment or retirement from the Public Service.

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

Work Force Reduction Program

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of a work force reduction program? Yes () No ()

If so, the Bidder must provide the following information:

a.name of former public servant;

b.conditions of the lump sum payment incentive;

c.date of termination of employment;

d.amount of lump sum payment;

e.rate of pay on which lump sum payment is based;

f.period of lump sum payment including start date, end date and number of weeks;

g.number and amount (professional fees) of other contracts subject to the restrictions of a work force reduction program.

For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including the Goods and Services Tax or Harmonized Sales Tax.

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement associated with the requirement.

2. Statement of Work

The Contractor must perform the Work and provide the goods in accordance with the Statement of Work at Annex "A".

3. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual*

(<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

3.1 General Conditions

2010A (2012-11-19), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

4. Term of Contract

4.1 Delivery Date

All goods must be delivered by March 31, 2013. All other deliverable must be received by May 15, 2013.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Tammy Kozak
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
100-167 Lombard Avenue
Winnipeg, Manitoba R3C 2Z1

Telephone: 204-984-8825
Facsimile: 204-983-7796
E-mail address: tammy.kozak@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work

in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

5.2 Project Authority

The Project Authority for the Contract is:

Name: _____ TO BE DETERMINED AT CONTRACT AWARD _____

Title: _____

Organization: _____

Address: _____

Telephone : _____

Facsimile: _____

E-mail address: _____

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

5.3 Contractor's Representative

Name: _____

Title: _____

Telephone : _____

Facsimile: _____

E-mail address: _____

6. Payment

6.1 Basis of Payment - Firm LOT Prices

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot prices, as specified in Annex B for a cost of \$ ____ TO BE DETERMINED AT CONTRACT AWARD _____. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.2 Limitation of Price

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

6.3 Multiple Payments

SACC *Manual* clause H1001C (2008-05-12) Multiple Payments

6.4 SACC Manual Clauses

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

C2000C (2007-11-30), Taxes - Foreign-based Contractor

7. Invoicing Instructions

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

8. Certifications

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

9. Applicable Laws

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

10. Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the General Conditions (2012-11-19) - Goods (Medium Complexity);
- (d) Annex A, Statement of Work;
- (e) Annex B, Basis of Payment;
- (f) the Contractor's bid dated _____

11. SACC Manual Clauses

B7500C (2006-06-16), Excess Goods

A9068C (2010-01-11), Government Site Regulations

A9039C (2008-05-12), Salvage

12. Insurance

The Contractor must comply with the insurance requirements specified below. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. Coverage must be placed with an Insurer licensed to carry out business in Canada. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

13. Commercial General Liability Insurance

1.The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.

2.The Commercial General Liability policy must include the following:

a.Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.

b.Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.

c.Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.

d.Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.

e.Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.

f.Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.

g.Employees and, if applicable, Volunteers must be included as Additional Insured.

h.Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)

i.Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.

j.Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.

k.If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.

Solicitation No. - N° de l'invitation

01633-130444/A

Client Ref. No. - N° de réf. du client

AGR

Amd. No. - N° de la modif.

File No. - N° du dossier

WPG-2-35311

Buyer ID - Id de l'acheteur

wpg202

CCC No./N° CCC - FMS No/ N° VME

ANNEX A

STATEMENT OF WORK

Attachments:

Appendix 1 - Compliance Matrix

ANNEX B**BASIS OF PAYMENT**

When completed the Table below will be considered as the Bidder's Financial Bid.

Bidder must complete the Basis of Payment in accordance with the following:

1. PRICING must be firm all inclusive pricing. Prices MUST include ALL costs (freight and offloading) associated with providing the Goods in accordance with the Requirement at Annex A.
2. GST, if applicable, is to be shown as a separate item on any resulting invoice.
3. Bidder must provide prices as per the unit of issue requested. Failure to do so will render the bid non-responsive without further consideration.

| Firm Lot pricing, GST extra | | | | |
|------------------------------------|---|------------------|----------------------|-------------------|
| Item . | Description | Est'd Qnt | Unit of Issue | Unit Price |
| 1 | <p>SUPPLY AND DELIVERY:</p> <p>For the supply and delivery of a TOWABLE LINEAR IRRIGATION SYSTEM COMPLETE WITH GPS SYSTEM FOR FIELD POSITION AND GUIDANCE AND CONTROL PANEL.</p> <p>This work includes the supply, delivery, and offloading of the goods at the Brandon Research Centre in Brandon Manitoba in accordance with the Statement of Work.</p> | 1 | LOT | \$ |
| 2. | <p>INSTALLATION, TESTING AND TRAINING:</p> <p>This work includes the requirement to install and test the equipment, and train individuals on the operation and maintenance of the system in accordance with Annex A - Statement of Work.</p> | 1 | LOT | \$ |
| TOTAL FOR EVALUATION | | | | \$ |

ANNEX A1 – COMPLIANCE MATRIX - Mandatory Performance Specifications

| Section | Description | Status | MEETS | | What's expected in the proposal Bidder Response Bidder Cross Reference |
|--|---|--------|-------|--|--|
| Completion of this Compliance Matrix is mandatory to be considered responsive and for your bid to be given further consideration. | | | | | |
| 1. Bidders MUST record whether they meet (YES) or not meet (NO) each of the specifications. 2. Bidders are requested to provide documentation to demonstrate compliance to each mandatory criterion if applicable. 3. Bidders are requested to reference where this technical specification is indicated in their bid documentation | | | | | |
| STATUS: M = Mandatory - Requirements identified by the word "must" are mandatory. Deviations will not be permitted. I = Information - The information provided is for guidance only. | | | | | |
| | For the supply and delivery of a TOWABLE LINEAR IRRIGATION SYSTEM COMPLETE WITH GPS SYSTEM FOR FIELD POSITION AND GUIDANCE AND CONTROL PANEL. The work includes the supply, delivery, installation of the Linear Irrigation System at the Brandon Research Centre in Brandon Manitoba. Included in the work is the requirement to test the equipment and train individuals on the operation and maintenance of the system. | | | | In this column, Bidder is to indicate how they meet the specifications: (i.e. see attached brochure). or In this column bidder is requested to provide specifics how their proposed meets the criteria. or Confirm your commitment to this supply requirement. |
| 1.0 | TECHNICAL DEVIATIONS. | | | | |
| 1.1 | The bidder <i>must</i> list any deviation from the purchase description in the Compliance Matrix | M | | | |
| 2.0 | APPROXIMATE SIZE OF LAND: 45 ha Note: Quantities and dimension shown within this document are not guaranteed to be accurate. The Contractor will be responsible to take final measurements AT SITE VISIT and to complete any modifications to the unit necessary to ensure it can fit the assigned area with adequate service clearances | | | | |
| 3.0 | PROVIDE YOUR BID RESPONSE TO THE FOLLOWING: Bidders MUST provide the following information: | | | | |
| 3.1 | Provide the Length of each span and overall length of system. | | | | |
| 3.2 | Outside diameter and wall thickness of the lateral. | | | | |
| 3.3 | Manufacturer's computer printout showing pressure distribution and flow along the lateral assuming a system end pressure of 25psi. | | | | |
| 3.4 | Nozzle package selected, together with certified performance specifications from the manufacturer. | | | | |
| 3.5 | Complete wiring diagrams. | | | | |
| 3.6 | Provide model of computer panel with list of operating capability and optional upgrades. | | | | |
| 3.7 | Make and specifications of high density poly drag hose. | | | | |
| 3.8 | Make and model of irrigation system indicating gear boxes and drives. | | | | |

| 4.0 | MECHANICAL CHARACTERISTICS | | | | |
|------|---|---|--|--|--|
| 4.1 | The components of the irrigation system must be manufactured and finished in a thorough workmanlike manner. Workmanship must be of the highest grade throughout and in accordance with good commercial practice. | M | | | |
| 4.2 | The total length of the linear must be between 260-280 meters. The length of the lateral must be met entirely with equal length spans; length must not be reached with an overhang and/or end gun. | M | | | |
| 4.3 | All metal components including nipples, fittings etc. must be hot dipped galvanized steel. | M | | | |
| 4.4 | The tires must be new, minimum size 14.9" x 24" with tubes, semi-flotation with galvanized rims. | M | | | |
| 4.5 | The outlets across the machine must be spaced to work with specified nozzle package. Extra outlets must have galvanized plug. | M | | | |
| 4.6 | The system must be equipped with a nozzle package designed to deliver a minimum 210 USgpm. | M | | | |
| 4.7 | Nozzles must be Senninger I-Wobs with standard angle 9-Groove plates OR Nelson O3000 Orbitor name brands - include clause no subs. with standard angle 9-Groove black plates | M | | | |
| 4.8 | Nozzles must be equipped with 138 kPa (20 psi) regulators to ensure proper operation of the nozzles supplied above. | M | | | |
| 4.9 | Nozzles must be mounted on flexible drop tubes including weights with nozzles approximately 1.82 metres (6 feet) from ground level. | M | | | |
| 4.10 | Nozzles must be sized and evenly spaced at the approximate interval specified by the nozzle manufacturer to optimize uniformity across the entire system. | M | | | |
| 4.11 | Nozzle Packages: Each nozzle must be equipped with a ball type shut-off valve located directly above the nozzle for easy access by field staff. | M | | | |
| 4.12 | The pipe size must be minimum 6 5/8" diameter and minimum 12 gauge steel. | M | | | |
| 4.13 | A sand trap must be installed at the end of the linear. | M | | | |
| 4.14 | The drive cart must be a four wheel drive system capable of pulling a minimum 185m (600ft) of minimum 100mm (4") drag hose. The linear/lateral system must be capable of irrigating in forward and reverse. | M | | | |
| 4.15 | A quality liquid filled pressure gauge must be installed in the lateral on the riser pipe. The gauge MUST have a range between 0 and 345kPa (50 psi). TOWABLE: Gear boxes, drives, and motors must be complete with system and allow the linear/lateral to be towable with a tractor with ability to be moved between fields as desired. | M | | | |
| 4.16 | The drag hose must be 100mm (4") high density polyethylene pipe suitable for this application. Total length must be a minimum 185m (600 feet). Connections from the drag hose to the linear and from the drag hose to a future riser (4" Ring-lock must be included | M | | | |
| 5.0 | CLIENT ASSISTANCE: | | | | |
| 5.1 | The Contractor will be permitted to use for storage, any land available in the vicinity of the work with the approval of the Project Authority. | I | | | |
| 8.0 | SITE MAINTENANCE AND CLEAN-UP | | | | |
| 8.1 | The Contractor must confine his equipment, the storage of materials and the operations of his workmen to limits indicated by law, ordinances, permits or directions of the Engineer and must not unreasonably encumber the work area with his materials. | M | | | |

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|------|---|---|--|--|--------------------|
| 8.2 | Clean-up must be a continuous process from the start of the work to final acceptance of the project. The Contractor must, at all times, and without additional instructions, keep property on which work is in progress free from accumulations of waste materials or rubbish caused by employees or by the work. Accumulations of waste materials which might constitute a fire hazard will not be permitted. Spillage from the Contractor's hauling vehicles on traveled public or private roads must be promptly cleaned up. On completion of construction, the Contractor must remove all temporary structures, rubbish, and waste materials resulting from his operations. | M | | | |
| 8.3 | The Contractor must dispose of all surplus excavated material, rocks and boulders at a location designated by the Engineer. All clean-up operations must be subject to the approval of the Engineer. | M | | | |
| 9.0 | SAFETY, REGULATIONS AND ACTS | | | | |
| 9.1 | The Contractor must comply with all applicable Municipal, Provincial Government and Government of Canada regulations. The Contractor must comply with all Workers' Compensation Board Regulations as they apply to the work of this contract. | M | | | |
| 10.0 | ROADS, FENCES AND CROP DAMAGE: | | | | |
| 10.1 | MAP: a map will be provided to identify access routes. | I | | | |
| 10.2 | ROADS: Contractor will be responsible for any damaged caused by the Contractor's heavy vehicle and equipment to the roads. Contractor must adhere to all applicable traffic laws and acts. | M | | | |
| 11.0 | DELIVERABLES: | | | | |
| 11.1 | Operation Manuals: Operator's manuals must be provided in English and must contain the following information: 1. Instructions for the safe operation of all components; 2. System assembly/disassembly; 3. Daily operator maintenance instructions /checks (including lubrication and calibration procedures); and 4. Safety Warnings. | M | | | Hardcopy or e-copy |
| 11.2 | Maintenance Manuals - The maintenance Manual must be in English and must contain a listing for all itemized parts showing the item number, manufacturer's part numbers, the part name and a brief description of the item | M | | | Hardcopy or e-copy |
| 11.3 | On-site Training: the Contractor must provide training for up to 6 of Canada's personnel in the operation and maintenance of the system and shut-offs. Training must be sufficient in the Project Authority's opinion to properly acquaint Canada's personnel with the required procedures. | M | | | |
| 11.4 | The Contractor must make delivery complete of the unit / material on or before March 31, 2013. The installation, testing and training of AAFC personnel on the unit must be completed on or before June 15, 2013. | M | | | |
| 11.5 | Contractor must contact the Project Authority prior to Delivery to : AAFC - Brandon Research Centre 2701 Grand Valley road Brandon, MB R7A 5Y3 | | | | |
| 12.0 | ELECTRICAL | | | | |

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|-------------|---|---|--|--|--|
| 12.1 | All electrical equipment and material of the irrigation system must be new and conform to the standards of the Canadian Standards Association. | M | | | |
| 12.2 | Installation of equipment must meet the requirements of the most current edition of the Canadian Electrical Code, Part 1: applicable Provincial and Municipal regulations and codes; and the current ASAE Standard for this type of application. | M | | | |
| 12.3 | In no instance must the standards and recommendations established by the manufacturer be reduced by any codes or regulations referred to above. Where differences between the Canadian Codes and American Codes occur, the Canadian Code must govern. | M | | | |
| 12.4 | It is intended that the Contractor must undertake all electrical work necessary to design and install a completely operational irrigation system and control valve. | M | | | |
| 12.5 | The system must use a three-phase electrical supply. | M | | | |
| 12.6 | Linear/lateral must be complete with manufactures GPS guidance system. | M | | | |
| 12.7 | The linear must have a computer control panel with GPS compatibility (Note: the GPS is to be used for field position and guidance). | M | | | |
| 12.8 | Minimum features to include programmable stop/start times, water application rate, field position, and temperature/pressure read outs. It must be compatible with "real time" monitoring/control system that could be added in the future. | M | | | |
| 12.9 | Linear/lateral must be complete with tower alignment control system. | M | | | |
| 12.10 | Lightning arrester to comply with CSA Standard C233-1972 or most current standard. | M | | | |
| 12.11 | Ground fault protection must be included. | M | | | |
| 12.12 | A 185m (600ft) 5-wire drag cord c/w male connector on one end and cable grips on each end suitable for this application must be supplied. It is the contractor's responsibility to ensure male cord end is compliant with 3-phase power supply and meets current standards. An end of cord shut off must be installed on drag cart. | M | | | |
| 12.13 | The linear must be equipped with a Nelson 800 series control valve with solenoid on/off mounted on the linear/lateral. Valve must be linked to the linear/lateral control panel for low pressure shut off and end of field shut. | M | | | |
| 12.14 | End of field shut-off arms c/w manufacturers recommended barricades must be included. Barricades must be placed on each end of the field either in line drag cart tower or end tower (total of 2 barricades). | M | | | |
| 12.15 | An electronic flow meter and pressure sensor must be installed and have the ability to communicate with the control panel. | M | | | |
| 13.0 | TESTING: | | | | |
| 13.1 | After the irrigation system has been installed, testing and adjusting must be done by the Contractor and must continue until the system is operating to the satisfaction of the Project Authority. | M | | | |