



RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver, BC V6Z 0B9

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

Proposal To: Public Works and Government
Services Canada

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

Proposition aux: Travaux Publics et Services
Gouvernementaux Canada

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

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works and Government Services Canada - Pacific
Region
219 - 800 Burrard Street
800, rue Burrard, pièce 219
Vancouver, BC V6Z 0B9

| | |
|--|---|
| Title - Sujet General Purpose Tractor - Sandspit | |
| Solicitation No. - N° de l'invitation T7061-150011/A | Date 2015-11-12 |
| Client Reference No. - N° de référence du client T7061-150011 | |
| GETS Reference No. - N° de référence de SEAG PW-\$VAN-795-7657 | |
| File No. - N° de dossier VAN-5-38188 (795) | CCC No./N° CCC - FMS No./N° VME |
| Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-01-05 | Time Zone Fuseau horaire Pacific Standard Time PST |
| F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/> | |
| Address Enquiries to: - Adresser toutes questions à: Siopongco, Philip | Buyer Id - Id de l'acheteur van795 |
| Telephone No. - N° de téléphone (604) 775-7691 () | FAX No. - N° de FAX () - |
| Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Transport Canada Sandspit Airport No 1 Airport Road PO BOX 439 Sandspit BC V0T 1T0 | |

Instructions: See Herein

Instructions: Voir aux présentes

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

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PART 1 - GENERAL INFORMATION

1.1 Requirement - Bid

The requirement is detailed under Article 2 of the Resulting Contract Clauses.

1.2 Debriefings

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

1.3 Trade Agreements

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

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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

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

The 2003 (2015-07-03) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

"Subsection 3 of Section 01 Integrity Provisions - Bid of the Standard Instructions 2003 incorporated by reference above is deleted in its entirety and replaced with the following:

List of Names

- a. 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(s), at the time of submitting an arrangement under the Request for Supply Arrangement (RFSA).
- b. These Bidders must immediately inform Canada in writing of any changes affecting the list of directors during this procurement process.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 120 days

2.2 Submission of Bids

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

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

2.2.1 Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least 20 days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

2.2.2 Equivalent Products

1. Products that are equivalent in form, fit, function and quality to the item(s) specified in the bid solicitation will be considered where the Bidder:
 - a. designates the brand name, model and/or part number of the substitute product;
 - b. states that the substitute product is fully interchangeable with the item specified;
 - c. provides complete specifications and descriptive literature for each substitute product;
 - d. provides compliance statements that include technical specifics showing the substitute product meets all mandatory performance criteria that are specified in the bid solicitation; and
 - e. clearly identifies those areas in the specifications and descriptive literature that support the substitute product's compliance with any mandatory performance criteria.
2. Products offered as equivalent in form, fit, function and quality will not be considered if:
 - a. the bid fails to provide all the information requested to allow the Contracting Authority to fully evaluate the equivalency of each substitute product; or
 - b. the substitute product fails to meet or exceed the mandatory performance criteria specified in the bid solicitation for that item.
3. In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders offering a substitute product to demonstrate, at the sole cost of bidders, that the substitute product is equivalent to the item specified in the bid solicitation.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 14 calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

2.4 Applicable Laws

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

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

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

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

Section I: Technical Bid (2 hard copies and 1 soft copy on CD, DVD or USB Stick)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

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

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

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

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

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). 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.

The technical bid consists of the following:

- i. **Bid Submission Form:** Bidders are requested to include the Bid Submission Form with their bids. It provides a common form in which bidders can provide information required for evaluation and contract award, such as a contact name, the Bidder's Procurement Business Number, the Bidder's status under the Federal Contractors Program for Employment Equity, etc. Using the form to provide this information is not mandatory, but it is recommended. If Canada determines that the information required by the Bid Submission Form is incomplete or requires correction, Canada will provide the Bidder with an opportunity to do so.

- ii. **Substantiation of Technical Compliance:** The technical bid must substantiate the compliance of the Bidder and its proposed solution with the specific articles of Annex A (Requirement) identified in the Substantiation of Technical Compliance Form, which is the requested format for providing the substantiation. The Substantiation of Technical Compliance Form is not required to address any parts of this bid solicitation not referenced in the form. The substantiation must not simply be a repetition of the requirement(s), but must explain and demonstrate how the Bidder will meet the requirements and carry out the required Work. Simply stating that the Bidder or its proposed solution or product complies is not sufficient.

Bidders:

- a Must designate the brand name, model and/or part number of the proposed product; and
- b Must provide complete specifications and descriptive literature to substantiate that the proposed product's meets the mandatory requirements that are specified in the bid solicitation (Form B)

Where Canada determines that the substantiation is not complete, the Bidder will be declared non-responsive and disqualified. The substantiation may refer to additional documentation submitted with the bid - this information can be referenced in the "Reference" column of the Substantiation of Technical Compliance Form, where bidders are requested to indicate where in the bid the reference material can be found, including the title of the document, and the page and paragraph numbers; where the reference is not sufficiently precise, Canada may request that the Bidder direct Canada to the appropriate location in the documentation.

In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders to demonstrate, at the sole cost of bidders, that the proposed product meets all mandatory criteria that are specified in the bid solicitation.

iii. **Best Delivery Date - Bid**

While the delivery is requested by March 31, 2016, the best delivery that could be offered is _____.

Section II: Financial Bid

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

a) Tractor and Flail Mowers - Bidders must quote a firm unit price. Unit pricing must include all custom duties and sales taxes are extra.

Bidders are to describe what mode of transportation and unloading, if applicable is to be utilized.

- ii. Blank Prices: Bidders are requested to insert "\$0.00" for any item for which it does not intend to charge or for items that are already included in other prices set out in the tables. If the Bidder leaves any price blank, Canada will treat the price as "\$0.00" for evaluation purposes and may request that the Bidder confirm that the price is, in fact, \$0.00. No bidder will be permitted to add or change a price as part of this confirmation. **Any bidder who does not confirm that the price for a blank item is \$0.00 will be declared non-responsive.**

3.1.1 Exchange Rate Fluctuation

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

3.1.2 SACC Manual Clauses

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

All bids must be completed in full and provide all of the information requested in the bid solicitation to enable full and complete evaluation.

4.1.1.1 Mandatory Technical Criteria

Each bid will be reviewed to determine whether it meets the mandatory requirements of the bid solicitation. Any element of the bid solicitation identified with the words "must" or "mandatory" is a mandatory requirement. Bids that do not comply with each and every mandatory requirement will be declared non-responsive and be disqualified.

The mandatory technical requirements are described in Annex A.

4.1.2 Financial Evaluation

Evaluation of Price - Bid

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

For evaluation purposes, the Total Bid Price (Table B.1) using the pricing tables completed by the bidders will be calculated as follows:

The unit price quoted for item 1.1 in Annex B times 1 unit;
plus the unit price quoted for item 1.2 in Annex B times 2 unit;
plus the unit price quoted for item 1.3 in Annex B times 1 unit;
plus the unit price quoted for item 1.4 in Annex B times 1 unit;
plus the unit price quoted for item 1.5 in Annex B times 1 unit;
plus the unit price quoted for item 1.6 in Annex B times 1 lot;

equals the Total Bid Price.

4.2 Basis of Selection

4.2.1 Basis of Selection – Mandatory Technical Criteria

SACC Manual Clause A0031 (2010-08-16), Basis of Selection – Mandatory Technical Criteria

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

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

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

5.1 Certifications Required with the Bid

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

5.1.1 Declaration of Convicted Offences

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

5.2 Certifications Precedent to Contract Award and Additional Information

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

5.2.1 Integrity Provisions – List of Names

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

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

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

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

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

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

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 There is no security requirement applicable to this Contract.

6.2 Requirement

The contractor must provide the supply, delivery and unloading of one (1) general purpose tractor (Make and Model) _____. The tractor must be able to operate two (2) self-propelled, hydraulically driven side flail mowers and one (1) mechanically driven rear flail mower in accordance with the "Requirement: at Annex "A".

6.3 Standard Clauses and Conditions

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

6.3.1 General Conditions

2010A (2015-07-03), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Delivery

6.4.1.1 Delivery Date

All the deliverables must be received on or before March 31, 2016

6.4.1.2 Shipping Instructions Free on Board Destination

Goods must be consigned and delivered to the destination specified in the contract:

FOB Destination,

Transport Canada
Sandspit Airport
No. 1 Airport Road, PO BOX 439
Sandspit, BC V0T 1T0

Including all delivery charges and custom duties and applicable taxes. Sales Taxes are extra.

6.4.2 Delivery and Unloading

SACC Manual clause D0018C (2007-11-30), Delivery and Unloading

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Philip Siopongco
Title: A/Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch

Address: 219-800 Burrard street Vancouver BC V6Z 0B9

Telephone: 604-775-7691

E-mail address: Philip.Siopongco@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.

6.5.2 Technical Authority

The Project Authority for the Contract is: To be inserted at contract award

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone : _____

Facsimile: _____

E-mail address: _____

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

6.5.3 Contractor's Representative

| | |
|------------------|--|
| Name | |
| Title | |
| Company | |
| Address | |
| Telephone Number | |
| Fax Number | |
| Email Address | |

6.6 Payment

6.6.1 Basis of Payment

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

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

6.6.2 Limitation of Price

SACC Manual clause C6000C (2011-05-06), Limitation of Price

6.6.3 Method of Payment

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

6.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
 - a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
 - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract..

6.8 Certifications

6.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____. *(Insert the name of the province or territory as specified by the Bidder in its bid, if applicable)*

6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010 A (2015-09-03), General Conditions, (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____ *(insert date of bid)* *(If the bid was clarified or amended, insert at the time of contract award: “, as clarified on _____” or “, as amended on _____” and insert date(s) of clarification(s) or amendment(s))*

6.11 SACC Manual Clauses

SACC Manual clause B1501C (2006-06-16) Electrical Equipment
SACC Manual clause B7500C (2006-06-16) Excess Goods
SACC Manual clause A9049C (2011-05-16) Vehicle Safety

6.12 Warranty - Contractor responsible for all costs

Section 09 entitled Warranty of general conditions 2010A is amended by deleting subsection 2 in its entirety and replacing it with the following:

The Contractor must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant for replacement, repair or making good. The Contractor must also pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location as directed by Canada. If, in the opinion of Canada, it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location. In such cases, the Contractor will be responsible for all Costs (including travel and living expenses) incurred in so doing, Canada will not reimburse these Costs.

All other provisions of the warranty section remain in effect.

ANNEX A"

REQUIREMENT

1.0 SCOPE

1.1 Scope - Supply and deliver to the Transport Canada Airport located at Sandspit, British Columbia (BC), a general purpose tractor with a minimum 100 Power take-off (PTO) engine capacity. The tractor must come equipped with two (2) self-propelled, hydraulically driven side flail mowers and one (1) mechanically driven rear flail mower. The cutting swath must be a minimum of 19 to a maximum of 21 feet. All items noted in these specifications must be included in the basic configuration installed at the time of delivery.

2.0 GENERAL REQUIREMENTS

2.1 Standard Requirements:

a) a newly built, standard commercial product and

b) must have demonstrated industry acceptance by having been manufactured, and sold to the commercial trade and must have been proven in service for the application* specified, for a minimum of 1 year or in the case of a recently introduced tractor, the manufacturer must submit sufficient valid operational and test data to demonstrate the acceptability of the tractor.

2.2 Overview - The tractor supplied under this specification must be a four wheel, four-wheel drive tractor, having a 16 speed, fully synchromesh, transmission, and a minimum 100 PTO HP, 6 cylinder diesel engine.

The extreme duty, triple gang flail mower must mow forward, right and left of the rear tires and must have a rear centered flail mower, all installed at time of delivery.

The tractor supplied must be complete with all accessories customarily furnished and installed on this type of tractor, whether specified herein or not, to enable the tractor to function reliably to manufactured specifications under all conditions of service.

2.3 Specification Definitions - The specification definitions as laid out in SAE J1150 will apply.

3.0 REGULATIONS AND STANDARDS

3.1 General - All standards and specifications referenced herein, refer to the latest editions.

3.2 Society of Automotive Engineers - All notations in this specification indicating SAE refer to the most recent specification in effect by the Society of Automotive Engineers.

4.0 DELIVERY

FOB Sandspit Airport Maintenance Shop

4.1 Pre-delivery - The pre-delivery service must be completed by the manufacturer's dealer located closest to the operating site. The tractor(s) must be delivered complete with all liquids, lubricated and serviced with all associated products suitable for the climatic conditions in the area, where the tractor will operate.

4.2 Distance - The tractor is to be delivered to the final destination with a maximum of 20 hours of engine usage.

4.3 Documentation - All necessary documentation (origin certificate, weight ticket, etc.) required for licensing the tractor for public road use, by the issuing provincial authority, must be provided to the consignee when the tractor is delivered.

4.4 Inspection – Prior to delivery the contractor is responsible to ensure that the tractor is thoroughly tested and inspected. Transport Canada has the right to inspect the tractor at any stage of production and have all deviations, from specification, corrected upon request.

A final inspection shall be completed by the consignee at time of delivery.

5.0 **WARRANTY AND MANUALS (FOR TRACTORS AND ALL THREE FLAIL MOWERS)**

5.1 Manuals – The contractor must provide one English and one French copy, of each of the operator's maintenance, and spare parts manuals at the time of delivery.

5.2 Warranty period – The tractor must include an on-site warranty for 12 months or 500 hours whichever comes first, from the date the tractor is initiated into service.

The on-site warranty must include parts and repair, labour, inclusive for all travel and living expenses.

The on-site warranty must include a Manufacturer Specified Initial Equipment Servicing, including all filters, fluids, travel, living and technician labour costs.

5.3 Warranty claims – During the warranty period, the Contractor must commence repair within a 48 hour period upon request from Transport Canada. If the Contractor is unable to start repairs within 48 hours, Transport Canada reserves the right to contact a local certified repair person to complete the repairs and invoice the costs to the Contractor for repair parts and labour.

5.4 Repair Depot - Identify the responsible repair depot performing any required warranty repairs.

6.0 **TRACTOR SPECIFICATIONS**

6.1 General Specifications

6.1.1 The tractor must have a minimum operating speed of 35 KM/H when operating in top gear.

6.1.2 Indicate the maximum overall width (mirrors not included).

6.1.3 Indicate the height to the top of the cab.

6.1.4 Indicate the actual overall length.

6.1.5 Indicate the operating weight of the tractor as specified.

6.1.6 Indicate the maximum turning radius.

6.2 Engine

- 6.2.1 Engine must be a minimum 6 cylinder, water cooled diesel engine. The installed radiator must have the maximum cooling capacity for the model being offered.
- 6.2.2 Minimum net Power Take-off output (PTO) must be 100 Horsepower (HP). Engine must be a minimum of 120 HP.
- 6.2.3 Oil filter must be a full flow type that incorporates a replaceable element.
- 6.2.4 An oil pressure gauge must be located in the cab.
- 6.2.5 The engine must have a full flow fuel filter/water separator that incorporates a replaceable element.
- 6.2.6 Coolant protection to -40 degree Centigrade must be included with the tractor.
- 6.2.7 A cold starting ether system and block heater must be included with the tractor.
- 6.2.8 The engine must have a dry type air cleaner with a replaceable element.

6.3 Transmission

- 6.3.1 The transmission must be fully synchro-meshed and having a minimum of 16 forward and 8 reverse speeds.

6.4 Axles

- 6.4.1 The rear axle must be a driver controlled, locking differential type.

6.5 Brakes

- 6.5.1 Tractor must have brakes on both rear wheels.
- 6.5.2 The brakes must be either dry or wet type.
- 6.5.3 The tractor must come with an independent parking brake system.

6.6 Steering

- 6.6.1 The tractor must have full power steering with emergency steer capability in the event of power loss.

6.7 Wheels

- 6.7.1 The wheels must comply with the axle manufacturer's rating for imposed loads and operating conditions.

6.8 Tires

- 6.8.1 The rear tires must be 8 ply, being a minimum 18.4 x 34 with R1 Agricultural treading.
- 6.8.2 The front tires must be a minimum 10 x 16, 8 ply rib type, F2 tread.
- 6.8.3 The tires must comply with the axle manufacturer's rating for imposed loads and operating conditions.

6.9 Exhaust

6.9.1 The exhaust system must be installed complete with a rain cap or angled (elbow) to prevent any form of water intrusion.

6.9.2 The exhaust system must be complete with a muffler.

6.10 Electrical

6.10.1 The tractor must be supplied with a maintenance free-style battery/batteries having a total minimum 800 Cold Cranking Amp (**CCA**).

6.10.2 The electrical system must be 12 volt, with key shut-off.

6.10.3 The alternator must have a minimum output of 100 Amps.

6.10.4 The tractor must come with auto-resetting circuit breaks.

6.10.5 The tractor must have electrical circuitry to support the connection for 2 very high frequency (VHF) radios.

6.10.6 The tractor must have the minimum lights installed:

- a. front and rear working and travelling lights,
- b. turn signal lights with 4-way flashers,
- c. back-up lights, and
- d. instrument panel illumination.

6.10.7 The tractor must have a back up alarm having a minimum of 97 decibels (dBA) as per SAE J-994 type 'C'.

6.10.8 The tractor must have an electric or air horn.

6.10.9 The tractor must have a roof mounted amber rotating light that must be visible from 360° and be Class I rated. It must be mounted on the highest point on the tractor. A Whelen part #L31HAF or equivalent airport compliant model is acceptable.

6.11 Guards and Shields

6.11.1 The tractor must have fenders over the rear wheels.

6.11.2 The tractor must have a heavy duty radiator grille guard capable of preventing grass fouling and must be removable for cleaning.

6.11.3 The tractor must have durable guards or shields where necessary to ensure maximum safety when servicing and operating the front end of the tractor and its attachments.

6.12 Cab

6.12.1 The tractor must be complete with an all-weather, protective Roll Over Protection System (ROPS) enclosure and provide full visibility. The enclosure must conform to SAE J1040.

6.12.2 The cab must be equipped with an operator step up to cab handholds, and non-slip surfaces to permit easy access and exit without hazard to the operator.

- 6.12.3 The cab must be complete with tinted safety glass windows, as well as heavy duty wipers for both the front and rear windows.
- 6.12.4 The rear window must serve as emergency exit.
- 6.12.5 The tractor must be equipped with a fresh air heating and defrosting system of adequate capacity to maintain a cab temperature of 13 degrees centigrade with an ambient temperature of -40 degrees centigrade.
- 6.12.6 Provide air conditioning which must maintain an interior cab temperature of 22 degrees centigrade with an ambient temperature of 30 degrees centigrade.
- 6.12.7 The tractor must come with the following installed gauges: voltmeter, coolant temperature gauge, oil pressure gauge, fuel gauge, tachometer and hour meter.
- 6.12.8 The cab must be sound proofed to a maximum 80 dBA while the tractor is operating at full RPM and moving at 10 KPH.
- 6.12.9 The tractor must be equipped with dual west coast type mirrors.
- 6.12.10 The driver's seat must be a cloth, air suspension type, with adjustable seating and seatbelts.
- 6.13 Hydraulic System
- 6.13.1 The hydraulic system must be supplied fully operational, with oil fluid pressure control and relief devices. The hydraulic system must include and be supplied with, an external hydraulic cartridge type filter in addition to any internal filtration. Oil supplied must be Dexron III or equivalent.
- 6.13.2 Hydraulics for attachments to be readily coupled to the system must have quick-disconnect fittings (as opposed to wrench tightened). The hydraulic system must provide flow dividers, flow control valves and other devices as necessary to ensure satisfactory operation of specified attachments.
- 6.13.3 Hydraulic oil pump(s) must be driven by the engine through positive mechanical drive(s). Minimum 20 GPM at 2200 PSI hydraulic capacity.
- 6.13.4 All hydraulic hoses must conform to SAE for Industrial Heavy Duty operating conditions and must remain flexible down to minus 40 degrees Celsius.
- 6.13.5 A minimum of four (4) spare spool valves must be supplied. These valves must be a minimum four (4) position spool valves.
- 6.14 Rear Power Take Off and 3 Point Hitch
- 6.14.1 An independent rear mechanical drive PTO with minimum dual speeds of 540/1000 RPM must be provided.
- 6.14.2 A Category II, three point hitch with anti-sway feature must be provided.
- 6.15 Fuel Tank
- 6.15.1 A minimum 120 litre fuel tank must be included.
- 6.15.2 An in cab fuel gauge must be installed.

6.16 Painting

6.16.1 The tractor must be painted with epoxy type paint, Dupont Imron or "equivalent". If the paint is not factory installed, a minimum one (1) year warranty must be provided.

6.17 Instruction identification

6.17.1 The Contractor must provide permanently installed ISO or English/French instructions, diagrams and warning plates, where required to ensure efficient operation and servicing with maximum safety.

7.0 **FLAIL MOWER SPECIFICATIONS**

7.1 The two (2) self-propelled, hydraulically driven side flail mowers and one (1) mechanically driven rear flail mower must have a cutting swath of a minimum of 19 to a maximum of 21 feet. The mowers must be installed/attached to the tractor at delivery.

7.2 The two (2) side flail mowers must be self-propelled, hydraulically powered and must mow forward, right and left of the rear tires.

7.3 The rear mechanically driven rear flail mower must be centered.

7.4 All three (3) flail mowers must be installed at the time of delivery. All items offered must be of a standard production model.

7.5 The mower must be the manufacturer's current production model, and must meet or exceed the specifications mentioned below.

7.6 The flail mower must meet or exceed all applicable ANSI, SAE, and ASAE test standards.

7.7 Knife interchangeability must not require change to the cutter shaft.

7.8 Cutting height must be infinitely adjustable between 1/2 inch to 6 inches.

7.9 Cutter shafts must have bearing wrap protection.

7.10 Cutter head must have a minimum 6 5/8 inch diameter rollers, minimum 1 3/8 inch double-row spherical bearings and replaceable minimum 1 3/8 inch stub shafts with internal seal on greasable bearing and O-ring on 6 bolt heavy duty cap.

7.11 Cutter head must have replaceable skid shoes.

7.12 Cutter shafts must have a minimum operating speed of 2,400 revolutions per minute (RPM).

7.13 Knife swing circumference must be a minimum of 58 1/2 inches.

8.0 **ADDITIONAL SPECIFICATIONS FOR SIDE MOWERS**

8.1 Cutting width must be a minimum of 19 and a maximum of 21 feet of actual cut.

8.2 Side-cutting assemblies must be flail type, hydraulically powered.

8.3 Cutter shafts must be dynamically balanced, minimum of 6 inches in diameter, minimum 3/8 inch wall tubing with a minimum 2 3/16 diameter stub shafts and bearings.

- 8.4 Each 75 inch cutter head must have a minimum 80 forged, self-reversible all-purpose knives, or a minimum 40 smooth cut grass knives.
- 8.5 Cutter head arc must be a maximum of 150 degrees from vertical position.
- 8.6 Cutter heads must be a minimum 10 gauge, 80,000 psi yield steel bonnet, with a minimum 1/2 inch drive side and minimum 3/8 inch carrier steel end plates.
- 8.7 Hydraulic motor must have a minimum rating of 74 horsepower HP.
- 8.8 Motors must have cast steel housing with steel gears.
- 8.9 Hydraulic pump must be a tandem gear type with a minimum rating of 136 input H.P, producing a minimum 59.6 gallons per minute (GPM), 29.8 GPM each section) at a minimum of 3,500 pounds per square inch (PSI.)
- 8.10 Mower drive control valve must not cause restriction while cutter heads are in operation. Valve must stop cutting assembly within a maximum of 3 seconds operating at full RPM.
- 8.11 Reservoir must be internally treated against corrosion with industry approved chemical agent at time of manufacture. Reservoir must be have a minimum of 26 gallons and equipped with and in-tank filter rated at a minimum of 75 GPM, 10 microns, a 200 beta absolute element with restriction gauge, have a positive pressure at suction outlet and ball valve at suction line.
- 8.12 Hydraulic cooler fan must have reverser switch electric brake, must be outdoor weather rated allowing a maximum of 25 psi for pressure drops and a minimum heat transfer of 17,000 British Thermal Units per hour (BTUH) at 50 degrees Fahrenheit Inlet Temperature Difference (ITD), 40 GPM, 720 cubic feet per minute (CFM).
- 8.13 Hydraulic pressure connections must meet SAE O-ring and JIC standards.
- 8.14 Pressure and return system hoses must have a minimum 1 inch unrestricted inside diameter. Hoses must have a burst pressure of 4 times working pressure.
- 8.15 Lift assembly must have four double acting cylinders controlling inboard and outboard ends of cutter heads.
- 8.16 Lift control must have four spool metering type valve, spring centered, with detented float position and pilot relief valve.
- 8.17 Suction line must be an unrestricted minimum 1 1/4 inch inside diameter. (Specifically excluding suction filters and screens.)
- 8.18 Drive belt system must have an automatic belt tightener. (Specifically excluding back bend belt tightener).
- 8.19 Reverse rotation models must be equipped with steel front deflector.
- 8.20 Rear safety discharge deflector must be provided.
- 8.21 Travel and transport locks must be required.

9.0 ADDITIONAL REAR MOWER SPECIFICATIONS

- 9.1 Cutting width must be a minimum 102 inches of actual cut.
- 9.2 Cutting assembly must be flail type, mechanically driven.
- 9.3 Cutting shaft must have a minimum of 112 all purpose, forged, self-cleaning, reversible knives, or a minimum of 56 smooth cut grass knives.
- 9.4 Cutting shaft must be a minimum of 6 inch diameter, with minimum 3/8 inch wall and minimum 2 3/16 inch diameter bearings.
- 9.5 Cutter shafts must be dynamically balanced.
- 9.6 Cutting head weight must be a minimum of 1,700 pounds.
- 9.7 Cutting head must have a minimum one-half inch solid steel sidewall on drive side and minimum 3/8 inch on carrier side.
- 9.8 Bonnet must be a minimum 7 gauge, 80,000 PSI yield steel.
- 9.9 Gearbox must be reversible.
- 9.10 Cutting head must be rated for 540 RPM PTO drive.
- 9.11 PTO must have a minimum rating of 65 horsepower.
- 9.12 Cutter head must have PTO shaft storage yoke.
- 9.13 Mower unit must have a three point hitch Category I and II mountings.
- 9.14 Rear safety discharge flap must be provided.
- 9.15 Reverse rotation models must be equipped with steel front Reflector.

ANNEX "B"

BASIS OF PAYMENT

Table B.1 General Purpose Tractor and Flail Mowers

Price are FOB Destination inclusive of all customs duties and sales taxes are extra.

| Item | Description | QTY | Firm Unit Price | Extended total |
|------|--|-----|-----------------|----------------|
| 1.1 | General Purpose Tractor Make and Model _____ | 1 | \$ | \$ |
| 1.2 | Self-propelled, hydraulically driven side flail mowers Make and Model _____ | 2 | \$ | \$ |
| 1.3 | Mechanically driven rear flail mower Make and Model _____ | 1 | \$ | \$ |
| 1.4 | One spare set of all drive belts and one spare set of all replaceable filters. | 1 | \$ | \$ |
| 1.5 | Minimum, one year on-site warranty | 1 | \$ | \$ |
| 1.6 | Delivery and Unloading – Sandspit BC | 1 | \$ | \$ |
| | Total B1 | | | \$ |

FORM A – Bid Submission Form

| BID SUBMISSION FORM | | |
|---|-------------|--|
| Bidder's full legal name | | |
| Authorized Representative of Bidder for evaluation purposes (e.g., clarifications) | Name | |
| | Title | |
| | Address | |
| | Telephone # | |
| | Fax # | |
| | Email | |
| Bidder's Procurement Business Number (PBN) [see the <i>Standard Instructions 2003</i>] | | |
| Jurisdiction of Contract: Province in Canada the bidder wishes to be the legal jurisdiction applicable to any resulting contract (if other than as specified in solicitation) | | |
| Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder . Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s). Bidders bidding as societies, firms, or partnerships do not need to provide lists of names. | | |
| <p>On behalf of the Bidder, by signing below, I confirm that I have read the entire bid solicitation including the documents incorporated by reference into the bid solicitation and I certify that:</p> <ol style="list-style-type: none">1. The Bidder considers itself and its products able to meet all the mandatory requirements described in the bid solicitation;2. This bid is valid for the period requested in the bid solicitation;3. All the information provided in the bid is complete, true and accurate; and4. If the Bidder is awarded a contract, it will accept all the terms and conditions set out in the resulting contract clauses included in the bid solicitation. | | |
| Signature of Authorized Representative of Bidder | | |

Solicitation No. - N° de l'invitation
T7061-150011/A
Client Ref. No. - N° de réf. du client
T7056-150011

Amd. No. - N° de la modif.
File No. - N° du dossier
VAN-5-38188

Buyer ID - Id de l'acheteur
VAN795
CCC No./N° CCC - FMS No./N° VME

FORM B: Substantiation of Technical Compliance Form

See Attached

Solicitation No. - N° de l'invitation
T7061-150011/A
Client Ref. No. - N° de réf. du client
T7056-150011

Amd. No. - N° de la modif.
File No. - N° du dossier
VAN-5-38188

Buyer ID - Id de l'acheteur
VAN795
CCC No./N° CCC - FMS No./N° VME

NOTE TO BIDDERS: Please use **ONE** of the two mailing labels below and affix it securely to the outside of the envelope or package containing your bid submitted by mail or courier. Always ensure your company name, return address, open bidding solicitation number and closing date appear legibly on the outside of your bid submission.

AVIS AUX FOURNISSEURS: Pour le retour par la poste ou par messenger, veuillez utiliser UNE des étiquettes d'envoi ci-dessous et apposez-la à l'extérieur de votre enveloppe ou du colis contenant votre offre. Assurez-vous que le nom de votre compagnie, l'adresse de retour, le numéro de l'invitation ouverte à soumissionner et la date de clôture soient lisibles à l'extérieur de votre offre.

Bid Receiving
Public Works & Government Services Canada
219 - 800 BURRARD STREET
VANCOUVER BC V6Z 0B9

Solicitation No. : T7061-150011/A

Solicitation Closes at: 2:00 PM PT
On January 5, 2016

Réception des soumissions
Travaux publics et services gouvernementaux Canada
800 rue Burrard, 219
Vancouver (C.-B) V6Z 0B9

N° de l'invitation : T7061-150011/A

La réception des soumissions prend fin le: janvier 05, 2016
à: 14:00 PT

FORM B: Substantiation of Technical Compliance Form

BIDDERS INSTRUCTIONS:

- 1 Bidders must identify how they comply with all the mandatory specifications identified in the Form below
- 2 Bidders must provide information to the technical documentation as identified in the right column of the form below.

| Mandatory Specification | | Comply | | Information required in your Technical Proposal |
|-------------------------|--|--------|----|---|
| | | Yes | No | |
| 1.0 | SCOPE | | | |
| | 1.1 Supply and deliver to the Transport Canada Airport located at Sandspit, British Columbia (BC), a general purpose tractor with a minimum net 100 horsepower Power Take-off output (PTO). The tractor must come equipped with two (2) self-propelled, hydraulically driven side flail mowers and one (1) mechanically driven rear flail mower. The cutting swath must be a minimum of 19 to a maximum of 21 feet. All items noted in these specifications must be included in the basic configuration installed at the time of delivery. | | | PROPOSED TRACTOR MAKE - _____ MODEL - _____ |

FORM B: Substantiation of Technical Compliance Form

| | | | | | |
|---|---|--|--|--|---|
| 2.0 GENERAL REQUIREMENTS | | | | | |
| 2.1 <u>Standard Requirements</u> | a) a newly built, standard commercial product and b) must have demonstrated industry acceptance by having been manufactured, and sold to the commercial trade and must have been proven in service for the application* specified, for a minimum of 1 year or in the case of a recently introduced tractor, the manufacturer must submit sufficient valid operational and test data to demonstrate the acceptability of the tractor. | | | | * Application is defined as the capability to operate a 20' foot flail mower b) Bidder must provide information or documentation to substantiate compliance. |
| 2.2 Overview - The tractor supplied under this specification must be a four wheel, four-wheel drive tractor, having a 16 speed, fully synchromesh, transmission, and a minimum 100 PTO HP, 6 cylinder diesel engine. The extreme duty, triple gang flail mower must mow forward, right and left of the rear tires and must have a rear centered flail mower, all installed at time of delivery. The tractor supplied must be complete with all accessories customarily furnished and installed on this type of tractor, whether specified herein or not, to enable the tractor to function reliably to manufactured specifications under all conditions of service. | | | | | MAKE - _____ MODEL - _____ |
| 2.3 <u>Specification Definitions</u> - The specification definitions as laid out in SAE J1150 will apply. | | | | | Published literature must be included in your bid to indicate the actual capacities of the equipment being offered. |

FORM B: Substantiation of Technical Compliance Form

| | | | | | |
|------------|--|---|---|---|---|
| 3.0 | REGULATIONS AND STANDARDS | | | | |
| | 3.1 General - All standards and specifications referenced herein, refer to the latest editions. | — | — | — | |
| | 3.2 <u>Society of Automotive Engineers</u> - All notations in this specification indicating SAE refer to the most recent specification in effect by the Society of Automotive Engineers. | — | — | — | |
| 4.0 | DELIVERY | | | | |
| | FOB: Sandspit Airport Maintenance Shop | | | | |
| | 4.1 <u>Pre-Delivery</u> - The pre-delivery service must be completed by the manufacturer's dealer located closest to the operating site. The tractor must be delivered complete with all liquids, lubricated and serviced with all associated products suitable for the climatic conditions in the area, where the tractor will operate. | | | | Bidder must provide the "local" PDI DEALER's name and address: NAME: _____ ADDRESS: _____ ESTIMATED ENGINE HOURS _____ |
| | 4.2 <u>Distance</u> - The tractor is to be delivered to the final destination with a maximum of 20 hours of engine usage. | | | | |
| | 4.3 <u>Documentation</u> - All necessary documentation (origin certificate, weight ticket, etc.) required for licensing the tractor for public road use, by the issuing provincial authority, must be provided to the consignee when the tractor is delivered. | | | | |
| | 4.4 <u>Inspection</u> - Prior to delivery the contractor is responsible to ensure that the tractor is thoroughly tested and , inspected. Transport Canada has the right to inspect the tractor at any stage of production and have all deviations, from specification, corrected upon request. | | | | |
| | A final inspection must be completed by the consignee at time of delivery. | | | | |

FORM B: Substantiation of Technical Compliance Form

| 5.0 | WARRANTY AND MANUALS (FOR TRACTOR AND ALL 3 FLAIL MOWERS) | | |
|-----|--|-------|---|
| 5.1 | Manuals - The contractor must provide one English (and French if available) for each of the operator's, maintenance, and spare parts manuals at the time of delivery. | _____ | _____ |
| 5.2 | <p><u>Warranty Period</u> - The tractor must include an on-site warranty for 12 months or 500 hours whichever comes first, from the date the tractor is initiated into service.</p> <p>The on-site warranty must include parts and repair, labour, inclusive for all travel and living expenses.</p> <p>The on-site warranty must include a Manufacturer Specified Initial Equipment Servicing, including all filters, fluids, travel, living and technician labour costs.</p> | _____ | <p>WARRANTY OFFERED _____</p> |
| 5.3 | <p><u>Warranty Claims</u> - During the warranty period, the Contractor must commence repair within a 48 hour period upon request from Transport Canada. If the Contractor is unable to start repairs within 48 hours, Transport Canada reserves the right to contact a local certified repair person to complete the repairs and invoice the costs to the Contractor for repair parts and labour.</p> | _____ | <p>Bidder must provide the name and phone number of the [person to be contacted should warranty repairs be required.</p> <p>DEALER _____</p> <p>ADDRESS _____</p> <p>CONTACT NAME _____</p> <p>CONTACT NUMBER _____</p> |
| 5.4 | <u>Repair Depot</u> - Must provide contact information of the responsible repair depot performing any required warranty repairs. | _____ | _____ |

FORM B: Substantiation of Technical Compliance Form

| 6.0 | TRACTOR SPECIFICATIONS | | | | |
|-----|---|--|--|--|---|
| | <p><u>6.1 General Specifications</u></p> <p>6.1.1 The tractor must have a minimum operating speed of 35 Kilometers per hour (KM/H) when operating in top gear.</p> <p>6.1.2 Indicate the maximum overall width (mirrors not included).</p> <p>6.1.3 Indicate the height to the top of the cab.</p> <p>6.1.4. Indicate the actual overall length.</p> <p>6.1.5 Indicate the operating weight of the tractor as specified.</p> <p>6.1.6 Indicate the maximum turning radius.</p> | | | | <p>ACTUAL SPEED _____ Kilometers Per Hour</p> <p>ACTUAL WIDTH</p> <p>ACTUAL HEIGHT</p> <p>ACTUAL OVERALL LENGTH</p> <p>ACTUAL OPERATING WEIGHT</p> <p>ACTUAL TURNING RADIUS (Max)</p> |
| | <p><u>6.2 Engine</u></p> <p>6.2.1 Engine must be a minimum 6 cylinder, water cooled diesel engine. The installed radiator must have the maximum cooling capacity for the model being offered.</p> <p>6.2.2 Minimum net Power Take-off output (PTO) must be 100 Horsepower (HP). Engine must be a minimum of 120 HP.</p> <p>6.2.3 Oil filter must be a full flow type.</p> <p>6.2.4 An oil pressure gauge must be located in the cab.</p> <p>6.2.5 The engine must have a full flow fuel filter/water separator that incorporates a replaceable element.</p> <p>6.2.6 Coolant protection to - 40 degree Centigrade must be included with the tractor.</p> <p>6.2.7 A cold starting ether system and block heater must be included with the tractor.</p> <p>6.2.8 The engine must have a dry type air cleaner with a replaceable element.</p> | | | | <p>ENGINE MAKE AND MODEL _____</p> <p>ACTUAL HP _____</p> <p>TYPE _____</p> <p>TYPE _____</p> |
| | <p><u>6.3 Transmission</u></p> <p>6.3.1 The transmission must be fully synchro-meshed and having a minimum of 16 forward and 8 reverse speeds.</p> | | | | <p>PROPOSED TRANSMISSION TYPE _____</p> |

FORM B: Substantiation of Technical Compliance Form

| | | | | | |
|-----|---|--|--|--|---|
| 6.4 | <u>Axles</u> | | | | |
| | 6.4.1 The rear axle must be a driver controlled, locking differential type. | | | | |
| 6.5 | <u>Brakes</u> | | | | |
| | 6.5.1 Tractor must have breaks on both rear wheels. | | | | |
| | 6.5.2 The brakes must be either dry or wet type. | | | | TYPE _____ |
| | 6.5.3 The tractor must come with an independent parking brake system. | | | | TYPE _____ |
| 6.6 | <u>Steering</u> | | | | |
| | 6.6.1 The tractor must have full power steering with emergency steering capability in the event of power loss. | | | | |
| 6.7 | <u>Wheels</u> | | | | |
| | 6.7.1. The wheels must comply with the axle manufacturer's rating for imposed loads and operating conditions. | | | | Operating conditions is defined as moderate terrain that may contain heavy grass/weeds. |
| | | | | | WHEEL CAPACITY _____ |
| 6.8 | <u>Tires</u> | | | | |
| | 6.8.1 The rear tires must be 8 ply, being a minimum 18.4 x 34 with R1, Agricultural treading. | | | | REAR TIRES SIZE _____ |
| | 6.8.2 The front tires must be a minimum 10 x 16, 8 ply rib type, F2 tread. | | | | FRONT TIRES SIZE _____ |
| | 6.8.3 The tires must comply with the axle manufacturer's rating for imposed loads and operating conditions. | | | | |
| 6.9 | <u>Exhaust</u> | | | | |
| | 6.9.1 The exhaust system must be installed complete with a rain cap or angled (elbow) to prevent any form of water intrusion. | | | | ACTUAL _____ |
| | 6.9.2 The exhaust system must be complete with a muffler. | | | | |

FORM B: Substantiation of Technical Compliance Form

| | | | | | |
|------|---------------------------|---|---|---|---|
| 6.10 | <u>Electrical</u> | <p>6.10.1 The tractor must be supplied with a maintenance free style battery/batteries having a total minimum 800 Cold Cranking Amp (CCA).</p> <p>6.10.2 The electrical system must be 12 volt, with key shut-off.</p> <p>6.10.3 The alternator must have a minimum output of 100 amps.</p> <p>6.10.4 The tractor must come with auto-resetting circuit breaks.</p> <p>6.10.5 The tractor must have electrical circuitry to support the connection for 2 very high frequency (VHF) radios.</p> <p>6.10.6 The tractor must have the minimum lights installed:</p> <ul style="list-style-type: none"> a. front and rear working and travelling lights, b. turn signal lights with 4-way flashers, c. back-up lights, and d. instrument panel illumination. <p>6.10.7 The tractor must have a back up alarm having a minimum of 97 decibels (dBA) as per SAE J-994 type 'C'.</p> <p>6.10.8 The tractor must have an electric or air horn.</p> <p>6.10.9 The tractor must have a roof mounted amber rotating light that must be visible from 360° and be Class I rated. It must be mounted on the highest point on the tractor. A Whelen part # L31HAF or equivalent airport compliant model is acceptable.</p> | <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> | <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> | <p>ACTUAL _____ CCA</p> <p>ACTUAL _____ AMPS</p> <p>IDENTIFY LIGHTS (If any others are included)</p> <p>ACTUAL # of dBA _____</p> <p>ACTUAL (Electric or Air) _____</p> <p>IDENTIFY Airport Compliant Rotating Light _____</p> |
| 6.11 | <u>Guards and Shields</u> | <p>6.11.1 The tractor must have fenders over the rear wheels.</p> <p>6.11.2 The tractor must have a heavy duty radiator grille guard capable of preventing grass fouling and must be removable for cleaning.</p> | <p>_____</p> <p>_____</p> | <p>_____</p> <p>_____</p> | <p>ACTUAL TYPE _____</p> <p>ACTUAL TYPE _____</p> |

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| | | 6.11.3 The tractor must have durable guards or shields where necessary, to ensure maximum safety when servicing and operating the front end of the tractor and its attachments. | | | ACTUAL TYPE _____ |
| | 6.12 | Cab | | | |
| | | 6.12.1 The tractor must be complete with an all-weather, protective Roll Over Protection System (ROPS) enclosure and provide full visibility. The enclosure must conform to SAE J1040. | | | ACTUAL TYPE _____ |
| | | 6.12.2 The cab must be equipped with an operator step up to cab handholds, and non-slip surfaces to permit easy access and exit without hazard to the operator. | | | |
| | | 6.12.3 The cab must be complete with tinted safety glass windows, as well as heavy duty wipers for both the front and rear windows. | | | |
| | | 6.12.4 The rear window must serve as an emergency exit. | | | |
| | | 6.12.5 The tractor must be equipped with a fresh air heating and defrosting system of adequate capacity to maintain a cab temperature of 13 degrees centigrade and an ambient temperature of -40 degrees centigrade. | | | |
| | | 6.12.6 Provide air conditioning which must maintain an interior cab temperature of 22 degrees centigrade with an ambient temperature of 30 degrees centigrade. | | | |
| | | 6.12.7 The tractor must come with the following installed gauges: voltmeter, coolant temperature gauge, oil pressure gauge, fuel gauge, tachometer and hour meter. | | | ACTUAL GAUGES SUPPLIED: _____ _____ _____ |
| | | 6.12.8 The cab must be sound proofed to a maximum 80 dBA while the tractor is operating at full RPM and moving at 10 KPH. | | | |

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| | <p>6.12.9 The tractor must be equipped with dual west coast type mirrors.</p> <p>6.12.10 The driver's seat must be a cloth, air suspension type, with adjustable seating and seatbelts.</p> | — | — | — | |
| 6.13 | Hydraulic System | | | | |
| | <p>6.13.1 The hydraulic system must be supplied fully operational, with oil fluid pressure control and relief devices. The hydraulic system must include and must be supplied with, an external hydraulic filter in addition to any internal filtration. Oil supplied must be Dexron III or equivalent.</p> <p>6.13.2 Hydraulics for attachments to be readily coupled to the system must have quick-disconnect fittings (as opposed to wrench tightened). The hydraulic system must provide flow dividers, flow control valves and other devices as necessary to ensure satisfactory operation of specified attachments.</p> <p>6.13.3 Hydraulic oil pump(s) must be driven by the engine through positive mechanical drive(s). Minimum 20 GPM at 2200 PSI hydraulic capacity.</p> <p>6.13.4 All hydraulic hoses must conform to SAE for Industrial Heavy Duty operating conditions and must remain flexible down to minus 40 degrees Celsius.</p> <p>6.13.5 A minimum of four (4) spare spool valves must be supplied. These valves must be a minimum four (4) position spool valves.</p> | — | — | — | |
| 6.14 | Rear Power Take-off and 3 Point Hitch | | | | |
| | <p>6.14.1 An independent rear mechanical drive PTO with minimum dual speeds of 540/1000 RPM must be provided.</p> <p>6.14.2 A Category II, three point hitch with anti-sway features must be provided.</p> | — | — | — | ACTUAL RPM SPEEDS _____ |
| 6.15 | Fuel Tank | | | | |

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| | 6.15.1 A minimum 120 liter fuel tank must be included. | | | | ACTUAL FUEL TANK CAPACITY _____ |
| | 6.15.2 An in cab fuel gauge must be installed. | | | | |
| | 6.16 <u>Painting</u> | | | | |
| | 6.16.1 The tractor must be painted with epoxy type paint, DuPont Imron or "equivalent". If the paint is not factory installed, a minimum one year warranty must be provided. | | | | PAINT TYPE _____ FACTORY INSTALLED? YES or NO _____ IF NO, APPLICATION PAINT _____ |
| | 6.17 <u>Instruction Identification</u> | | | | |
| | 6.17.1 The Contractor must provide permanently installed ISO or English / French instructions, diagrams and warning plates, where required to ensure efficient operation and servicing with maximum safety. | | | | |
| 7.0 | ADDITIONAL FLAIL MOWER SPECIFICATIONS | | | | |
| | 7.1 The two (2) self propelled, hydraulically driven side flail mowers and one (1) mechanically driven rear flail mower must have a cutting swath of a minimum of 19 to a maximum of 21 feet. The mowers must be installed/attached to the tractor at delivery. | | | | MAKE - _____ MODEL - _____ |
| | 7.2 The two (2), side flail mowers must be self propelled, hydraulically powered and must mow forward, right and left of the rear tires. | | | | |
| | 7.3 The mechanically driven rear flail mower must be centered. All three (3) flail mowers must be installed at the time of delivery. For bid purposes, all items offered must be of a standard production model. | | | | |
| | 7.4 The mower must be the manufacturer's current production model, and must meet or exceed the specifications mentioned below. | | | | |
| | 7.5 | | | | |
| | 7.6 The flail mowers must meet or exceed all applicable ANSI, SAE and ASAE safety test standards. | | | | Copy if correctly translated to RFP doc!!!! Missing word - safety in RFP |
| | 7.7 Knife interchangeability must not require a change to the cutter shaft. | | | | |

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| | <p>7.8 Cutting height must be infinitely adjustable between 1/2 inch to 6 inches.</p> <p>7.9 Cutter shafts must have bearing wrap protection.</p> <p>7.10 Cutter head must have a minimum 6 5/8 inch diameter rollers, minimum 1 3/8 inch double-row spherical bearings and replaceable minimum 1 3/8 inch stub shafts with internal seal on greasable bearing and O-ring on 6 bolt heavy duty cap.</p> <p>7.11 Cutter heads must have replaceable skid shoes.</p> <p>7.12 Cutter shafts must have a minimum operating speed of 2,400 revolutions per minute (RPM).</p> <p>7.13 The knife swing circumference must be a minimum of 58 1/2 inches.</p> | | | | <p>ACTUAL ADJUSTMENT RANGE IN INCHES ____ TO ____</p> <p>COMPLY (YES OR NO) _____</p> <p>COMPLY (YES OR NO) _____</p> <p>COMPLY (YES OR NO) _____</p> <p>ACTUAL RPM _____</p> <p>ACTUAL CIRCUMFERENCE _____</p> |
| 8.0 | ADDITIONAL SPECIFICATIONS FOR SIDE MOWERS | | | | |
| | <p>8.1 Cutting width must be a minimum of 19 and a maximum of 21 feet of actual cut</p> <p>8.2 Side cutting assemblies must be flail type, hydraulically powered.</p> <p>8.3 Cutter shafts must be dynamically balanced, minimum 6 inches in diameter, minimum 3/8 inch wall tubing with a minimum 2 3/16 diameter stub shafts and bearings.</p> <p>8.4 Each 75 inch cutter head must have a minimum 80 forged self-reversible all purpose knives, or a minimum 40 smooth cut grass knives.</p> <p>8.5 Cutter head arc must be a maximum of 150 degrees from vertical position.</p> <p>8.6 Cutter heads must be a minimum 10 gauge, 80,000 psi yield steel bonnet, with a minimum 1/2 inch drive side and minimum 3/8 inch carrier steel end plates.</p> <p>8.7 Hydraulic motor must have a minimum rating of 74 horsepower HP.</p> <p>8.8 Motors must have cast steel housing with steel gears.</p> | | | | <p>ACTUAL CUTTING WIDTH _____</p> <p>TYPE AND NUMBER OF KNIVES _____</p> <p>ACTUAL ANGLE OF ARC _____ DEGREES</p> <p>ACTUAL HP RATING _____</p> |

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| 8.9 | Hydraulic pump must be a tandem gear type with a minimum rating of 136 input HP producing a minimum of 59.6 gallons per minute (GPM), (29.8 GPM each section) at a minimum 3,500 pounds per square inch (PSI). | _____ | _____ | ACTUAL HP RATING _____ ACTUAL FLOW PER SECTION _____ GPM ACTUAL PRESSURE _____ PSI |
| 8.10 | Mower drive control valve must not cause restriction while cutter heads are in operation. Valve must stop cutting assembly within a maximum of 3 seconds operating at full RPM. | _____ | _____ | |
| 8.11 | Reservoir must be internally treated against corrosion with industry approved chemical agent at time of manufacture. Reservoir must have a minimum of 26 gallons and equipped with an in-tank filter rated at a minimum of 75 GPM, 10 microns, a 200 beta absolute element with restriction gauge, have a positive pressure at the suction outlet and ball valve at suction line. | _____ | _____ | RESERVOIR CAPACITY _____ GALLONS ACTUAL FILTER RATING _____ GPM ACTUAL MICRON RATING _____ |
| 8.12 | Hydraulic cooler fan must have reverser switch electric brake, must be outdoor weather rated allowing a maximum of 25 psi for pressure drops and a minimum heat transfer of 17,000 British Thermal Units per hour (BTUH) at 50 degrees Fahrenheit Inlet Temperature Difference (ITD), 40 GPM, 720 cubic feet per minute (CFM). | _____ | _____ | ACTUAL MAXIMUM PRESSURE DROP _____ PSI ACTUAL HEAT TRANSFER CAPACITY _____ (BTUH) ACTUAL (ITD) TEMPERATURE _____ DEGREE F |
| 8.13 | Hydraulic pressure connection must meet SAE O-Ring and JIC standards. | _____ | _____ | |
| 8.14 | Pressure and return system hoses must have a minimum 1 inch unrestricted inside diameter. Hoses must have a burst pressure of 4 times working pressure. | _____ | _____ | |
| 8.15 | Lift assembly must have four double acting cylinders controlling inboard and outboard ends of cutter heads. | _____ | _____ | |

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| | 8.16 Lift control must have four spool metering type valve, spring centered, with detented float position and pilot relief valve. | | | | |
| | 8.17 Suction line must be an unrestricted minimum 1 1/4 inch inside diameter. (Specifically excluding suction filters and screens.) | | | | |
| | 8.18 Drive belt system must have automatic belt tightener. (Specifically excluding back bend belt tightener). | | | | |
| | 8.19 Reverse rotation models must be equipped with steel front deflector. | | | | |
| | 8.20 Rear safety discharge deflector must be provided. | | | | |
| | 8.21 Travel and transport locks must be required. | | | | |
| 9.0 | ADDITIONAL REAR MOWERS SPECIFICATIONS | | | | |
| | 9.1 Cutting width must be at least 102 inches of actual cut. | | | | ACTUAL CUTTING WIDTH _____ INCHES |
| | 9.2 Cutting assembly must be flail type, mechanically driven. | | | | |
| | 9.3 Cutting shaft must have a minimum of 112 all purpose, forged, self-cleaning, reversible knives, or 56 smooth cut grass knives. | | | | ACTUAL TYPE OF KNIVES _____ |
| | 9.4 Cutting shaft must be a minimum of 6 inch diameter, with 3/8 inch wall and 2 3/16 inch diameter bearings. | | | | |
| | 9.5 Cutter shafts must be dynamically balanced. | | | | |
| | 9.6 Cutting head weight must be a minimum of 1,700 pounds. | | | | ACTUAL CUTTING HEAD WEIGHT _____ POUNDS |
| | 9.7 Cutting head must have a minimum one-half inch solid steel sidewall on drive side and 3/8 inch on carrier side. | | | | |
| | 9.8 Bonnet must be 7 gauge, 80,000 PSI yield steel. | | | | ACTUAL GAUGE # _____ ACTUAL PRESSURE _____ PSI |
| | 9.9 Gearbox must be reversible. | | | | |
| | 9.10 Cutting head must be rated for 540 RPM PTO drive. | | | | ACTUAL CUTTING HEAD RATING _____ RPM |
| | 9.11 PTO must have a minimum rating of 65 horsepower. | | | | ACTUAL PTO RATED HP _____ |
| | 9.12 Cutter head must have PTO shaft storage yoke. | | | | |

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| | 9.13 | Mower unit must have a three point hitch Category I and II mountings. | | | |
| | 9.14 | Rear safety discharge flap must be provided. | | | |
| | 9.15 | Reverse rotation models must be equipped with steel front Reflector. | | | |