

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, 2nd Floor
800, rue Burrard, 2e étage
Vancouver, BC V6Z 0B9
Bid Fax: (604) 775-7526

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

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

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

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

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

Comments - Commentaires

Title - Sujet 100 HP 6 Cylinder Tractor	
Solicitation No. - N° de l'invitation T7061-130012/A	Date 2013-08-26
Client Reference No. - N° de référence du client T7061-130012	
GETS Reference No. - N° de référence de SEAG PW-\$VAN-524-7079	
File No. - N° de dossier VAN-3-36087 (524)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-10-07	Time Zone Fuseau horaire Pacific Daylight Saving Time PDT
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: Yamamoto, Albert	Buyer Id - Id de l'acheteur van524
Telephone No. - N° de téléphone (604) 775-7549 ()	FAX No. - N° de FAX (604) 775-7526
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF TRANSPORT SANDSPIT AIRPORT P.O.BOX 439 SANDSPIT British Columbia V0T1T0 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

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

Issuing Office - Bureau de distribution

Public Works and Government Services Canada - Pacific
Region
800 Burrard Street, 12th Floor
800, rue Burrard, 12e étage
Vancouver, BC V6Z 0B9

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

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PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with this bid solicitation.

2. Requirement

The requirement is detailed under Article 2 of the resulting contract clauses.

3. 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 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 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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

Delete: sixty (60) days

Insert: one hundred twenty (120) days

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.

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 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

1. Bid Preparation Instructions

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

- Section I: Technical Bid (3 hard copies)
- Section II: Financial Bid (1 hard copy)
- Section III: Certifications (1 hard copy)
- Section IV: Additional Information (3 hard copies)
-Product information

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 Applicable Taxes must be shown separately.

1.1 Exchange Rate Fluctuation

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

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**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**

In accordance with the mandatory requirements in Transport Canada Specification GPT 100 - see Annex C

1.2 Mandatory Delivery Requirement

The Tractor must be delivered on or before December 31, 2013.

1.3 Financial Evaluation

SACC Manual Clause A0220T (2013-04-25), Evaluation of Price

2. Basis of Selection**2.1 Basis of Selection - Mandatory Technical Criteria**

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 documentation 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 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 with this request will also render the bid non-responsive or will constitute a default under the Contract.

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

1.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from Human Resources and Skills Development Canada (HRSDC) - 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](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement applicable to this Contract.

2. Requirement

The Contractor must provide the items detailed under the "Requirement" 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 (2013-04-25), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

4. Term of Contract

4.1 Delivery Date

All the deliverables must be received on or before December 31, 2013

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Albert Yamamoto
Supply Specialist
Public Works and Government Services Canada
Acquisitions, Vancouver
800 Burrard Street, Room 219
Vancouver, British Columbia V6Z 0B9
Canada

Telephone : 604-775-7549

Fax : 604-775-7526

E-mail : albert.yamamoto@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:

fill in at contract award only

Name: _____

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Buyer ID - Id de l'acheteur

van524

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

T7061-130012

File No. - N° du dossier

VAN-3-36087

CCC No./N° CCC - FMS No/ N° VME

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

fill in at contract award only

6. Payment

6.1 Basis of Payment

Basis of Payment - Firm Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in contract 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.

6.2 Limitation of Price

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

6.3 Single Payment

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

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

8.1 Compliance

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 British Columbia.

10. Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2013-04-25), General Conditions - Goods (medium complexity);
- (c) Annex A - Requirement;
- (d) Annex B - Basis of Payment
- (e) Annex C - Transport Canada Specification GPT 100
- (f) 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)*)

11. SACC Manual Clauses

B1501C (2006-06-16) Electrical Equipment

A9049C (2011-05-16) Vehicle Safety

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van524

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T7061-130012

CCC No./N° CCC - FMS No/ N° VME

ANNEX A - REQUIREMENT

General Purpose minimum 100 HP 6 Cylinder Tractor.

Requirement: To supply and deliver a four wheel, two wheel drive tractor, embodying a 16 speed, fully synchromesh, transmission, and a minimum 100 PTO HP, 6 cylinder diesel engine, in accordance with the mandatory requirements in Transport Canada Specification (GPT 100 - see Annex C), to Transport Canada in Sandspit, B.C. The tractor must be capable of operating a 20 foot flail mower.

Quantity: 1 each

Delivery required: by December 31, 2013.

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Buyer ID - Id de l'acheteur

van524

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

T7061-130012

CCC No./N° CCC - FMS No/ N° VME

ANNEX B - BASIS OF PAYMENT

General Purpose minimum 100 HP 6 Cylinder Tractor.

Requirement: To supply and deliver a four wheel, two wheel drive tractor, embodying a 16 speed, fully synchromesh, transmission, and a minimum 100 PTO HP, 6 cylinder diesel engine, in accordance with the mandatory requirements in Transport Canada Specification (GPT 100 - see Annex C), to Transport Canada in Sandspit, B.C. The tractor must be capable of operating a 20 foot flail mower.

Quantity: 1 each

Price must be firm and in Canadian Dollars, GST extra.

\$ _____ /CDN Dollars
(FOB Destination including all delivery charges)

\$ _____ /CDN Dollars
(FOB Plant)

Delivery required: on or before December 31, 2013.

Delivery offered is: _____

Solicitation No. - N° de l'invitation

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Amd. No. - N° de la modif.

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

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Buyer ID - Id de l'acheteur

van524

File No. - N° du dossier

VAN-3-36087

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 BARRARD STREET
VANCOUVER BC V6Z 0B9

Solicitation No. : T7061-130012/A SD U000

Solicitation Closes at : 2:00 PM Pacific Time
on : 2013-10-07

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

N° de l'invitation : T7061-130012/A SD U000

La réception des soumissions prend fin le : 2013-10-07
à : 14h HP

SPECIFY THE ACTUAL COMPONENTS SUPPLIED, AND THEIR
RATED CAPACITIES, FOR THE UNITS TENDERED. NOTE IN
DETAIL ANY DEVIATIONS FROM THE SPECIFIED ITEMS.

1. **SCOPE**

1.1 Scope - Supply Transport Canada Airports the quantity of Tractor(s) noted in the request for proposal (RFP). The requirement is for a minimum 100 PTO HP tractor capable of operating a 20 foot flail mower. All items noted in sections 1 through 6 in this specification are to be included in the basic configuration. Extra equipment items noted in section 7 are to be supplied installed.

COMPLY

2. **GENERAL REQUIREMENTS**

2.1 Standard Requirements - The tractor(s) supplied under this specification shall be the manufacturer's latest model standard commercial product and shall have demonstrated industry acceptance by having been manufactured, and sold in significant numbers to the commercial trade and shall have been proven in service for the application specified, for at least 1 year prior to the request for proposal; or in the case of a recently introduced item, the manufacturer shall submit sufficient valid operational and test data to demonstrate the acceptability of the unit.

COMPLY

2.2 Overview - The tractor(s) supplied under this specification is to be a four wheel, two wheel drive unit, embodying an 16 speed, fully synchromesh, transmission, and a minimum 100 PTO HP, 6 cylinder diesel engine. The tractor(s) supplied is to be complete with all accessories customarily furnished and installed on this type of unit, whether specified herein or not, to enable the unit to function reliably and efficiently under all conditions of service.

MAKE

MODEL

COMPLY

2.3 Operating Conditions - The tractor(s) supplied must be capable of operating without failure of components when operated continuously at the maximum specified HP.

2.4 Mandatory Items - Items noted in the specification as "shall, to be, must, minimum, and maximum" are mandatory requirements". No deviations will be accepted for these items.

2.5 Responses - Any responses noted as "approximately" will be interpreted as "ACTUAL". Any non-completed areas will be interpreted as non-compliant.

2.6 Specification Definitions - The specification definitions as laid out in SAE J1150 shall 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

PDI DEALER

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

ADDRESS

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 4.2 <u>Distance</u> - The tractor(s) are to be delivered to the final destination with a maximum of 20 hrs on the unit unless prior approval is obtained from Transport Canada. The method of delivery is to be noted. | ESTIMATED ENGINE HOURS
DELIVERY METHOD |
| 4.3 <u>Documentation</u> - All necessary documentation (origin certificate, weight ticket, etc.) required for licensing the tractor for roading use, by the issuing provincial authority, shall be provided to the consignee when the unit is delivered. | COMPLY |
| 4.4 <u>Inspection</u> - The prime contractor is responsible to ensure that the tractor(s) are thoroughly tested, inspected, and that all deviations, from the specification, are corrected prior to delivery. Transport Canada has the right to inspect the tractor(s) 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. | COMPLY |
| 5.0 WARRANTY AND MANUALS | |
| 5.1 <u>Manuals</u> - Provide one English copy, of each of the operator's, maintenance, and spare parts manuals at the time of delivery of each tractor. | COMPLY |
| 5.2 <u>Warranty period</u> - Provide warranty on all components and repair labour for 12 months minimum from the date the unit is initiated into service. | WARRANTY OFFERED |

5.3	<u>Warranty claims</u> - If dealer requested warranty repairs have not commenced within a 48 hour period, Transport Canada reserves the right to complete repairs and bill the tractor manufacturer for the repair parts and labour in accordance with their standard repair time and rate.	COMPLY
5.4	<u>Dealer</u> - Specify the dealer responsible for performing any required warranty repairs, and provide the name and phone number of the person to be contacted should warranty repairs be required.	DEALER ADDRESS
6.0 TRACTOR SPECIFICATIONS		
<u>6.1 General Specifications</u>		
.1	The tractor shall have a minimum operating speed of 35 KM/H when operating in top gear.	ACTUAL
.2	Indicate the maximum overall width (mirrors not included).	ACTUAL
.3	Indicate the height to the top of the cab.	ACTUAL
.4	Indicate the actual overall length.	ACTUAL
.5	Indicate the operating weight of the unit as specified.	ACTUAL
.6	Indicate the maximum turning radius.	ACTUAL

6.2 Engine

- | | | |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| .1 | Engine must be a minimum 6 cylinder, water cooled diesel. No deviations will be accepted. Must have maximum cooling capacity radiator available. | ENGINE MAKE AND MODEL |
| .2 | Minimum net PTO power output to be 100 Hp. Minimum 120 Hp for engine. | ACTUAL HP |
| .3 | Oil filter to be a full flow type, incorporating a replaceable element. | TYPE |
| .4 | In cab oil pressure gauge. | TYPE |
| .5 | Provide a full flow fuel filter/water separator incorporating a replaceable element. | TYPE |
| .6 | Coolant protection to -40 C to be provided. | TYPE |
| .7 | Provide a cold starting ether system and block heater. | COMPLY |
| .8 | Provide a dry type air cleaner with a replaceable element. | TYPE |
| 6.3 <u>Transmission</u> | | |
| .1 | The transmission is to be fully synchronized having a minimum of 16 forward and 8 reverse speeds. | COMPLY |
| 6.4 <u>Axles</u> | | |
| .1 | The rear axle to be a driver controlled locking differential type. | TYPE |

6.5 Brakes

.1 The unit must have brakes on both rear wheels.

TYPE

.2 The brakes can be either dry or wet type.

TYPE

.3 The unit is to be complete with an independent parking brake system.

TYPE

6.6 Steering

.1 Full power steering with emergency steer capability in the event of power loss.

TYPE

6.7 Wheels

.1 The wheels shall comply with the axle manufacturer's rating for imposed loads and operating conditions.

WHEEL CAPACITY

6.8 Tires

.1 The rear tires are to be 8 ply, being a minimum 18.4x34 with R1 tread.

REAR

.2 The front tires must be a minimum 10 x 16 8 ply rib type, F2 tread.

FRONT

.3 The tires must comply with the axle manufacture's rating for imposed loads and operating conditions.

COMPLY

6.9 Exhaust

- .1 The exhaust system is to be installed complete with an elbow. ACTUAL
- .2 The exhaust system shall be complete with a muffler. COMPLY

6.10 Electrical

- .1 Provide maintenance free batteries having a minimum total of 800 CCA. ACTUAL
- .2 The electrical system is to be 12 volt, with key shut-off. COMPLY
- .3 The alternator shall have a minimum output of 100 Amps. ACTUAL
- .4 Provide auto-resetting circuit breakers. COMPLY
- .5 Provide circuit to support 2 VHF radios. COMPLY
- .6 The minimum lights required are; front and rear working and travelling lights, turn signal lights with 4-way flashers, back-up lights, and instrument panel illumination. ACTUAL
- .7 Provide a back up alarm having a minimum of 97 dBa as per SAE J-994 type 'C'. TYPE
- .8 Provide an electric or air horn. TYPE
- .9 Provide a roof mounted amber rotating light that shall be visible from 360° and be class I rated, mounted on the highest point on the tractor. Whelen part #L31HAF or equivalent is airport compliant. COMPLY

6.11	<u>Guards and Shields</u>		TYPE
.1	Provide fenders over the rear wheels.		
.2	Provide a heavy duty radiator grille guard capable of preventing grass fouling. Must be easily removable for cleaning.	PROVIDE DETAILS	
.3	Provide efficient and durable guards or shields where necessary to ensure maximum safety when servicing and operating the front end tractor and attachments.	PROVIDE DETAILS	
6.12	<u>Cab</u>	PROVIDE DETAILS	
.1	The unit is to be complete with an all weather, protective ROPS enclosure which provides full visibility. The enclosure shall conform to SAE J1040.	PROVIDE DETAILS	
.2	The cab is to be equipped with adequate steps, handholds, and non-slip surfaces to permit easy access and exit without hazard to the operator.	PROVIDE DETAILS	
.3	The cab is to be complete with tinted safety glass windows, as well as heavy duty wipers for both the front and rear windows. Rear window must also serve as emergency exit.	PROVIDE DETAILS	
.4	The unit shall be equipped with a fresh air heating and defrosting system of adequate capacity to maintain a cab temperature of 13 degrees with an ambient temperature of minus 40 degrees.	COMPLY	
.5	Provide air conditioning which is capable of maintaining an interior cab temperature of 22 degrees celsius with an ambient of 30 degrees celsius.	COMPLY	

- | | | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| .6 | Full cab insulation to be provided to provide a maximum sound level of 80 dB(A) with the tractor operating at full RPM and moving at 10 KPH. | ACTUAL dB(a) |
| .7 | Provide the operator sufficient instrumentation. The minimum gauges required are; voltmeter, coolant temperature gauge, oil pressure gauge, fuel gauge, tachometer and hourmeter. | ACTUAL SUPPLIED |
| .8 | Provide dual west coast type mirrors. | TYPE |
| .9 | Provide a cloth air suspension type, adjustable drivers seat. Provide seatbelts. | TYPE |
| 6.13 | <u>Hydraulic System</u> | PROVIDE DETAILS |
| .1 | The hydraulic system is to include adequate oil capacity, filtration (with replaceable filters), pressure control and relief devices, and other equipment necessary to ensure the satisfactory and safe operation of the tractor and attachments. Oil to be Dexron III or equivalent. | PROVIDE DETAILS |
| .2 | Hydraulics for attachments to be readily coupled to the system with quick-disconnect fittings. | PROVIDE DETAILS |
| .3 | Hydraulic oil pump(s) to be driven by the engine through positive mechanical drive(s). Minimum 20 GPM at 2200 PSI hydraulic capacity. | COMPLY |
| .4 | All hydraulic hoses must remain flexible down to minus 40 degrees celsius. | COMPLY |

- .6 Provide a minimum of four (4) spare, minimum four (4) position spool valves to operate attachments. Three position valves will not be accepted. TYPE
- 6.14 Rear PTO and 3 Point Hitch
- .1 Provide an independent rear mechanical drive PTO. Dual speed 540\1000 RPM. COMPLY
- .2 Provide a Category II three point hitch. Provide anti-sway feature on the three point hitch. COMPLY
- 6.15 Fuel Tank
- .1 Provide a minimum 120 litre fuel tank. ACTUAL
- .2 Provide an in cab fuel level gauge. COMPLY
- 6.16 Painting
- .1 The tractor is to be painted with epoxy type paint, Dupont Imron or equivalent. Paint colour equipment orange, or other standard paint colour, factory installed. PAINT TYPE AND COLOUR
- 6.17 Instruction identification
- .1 Provide permanently installed ISO or English instructions, diagrams and warning plates, where required to ensure efficient operation and servicing with maximum safety. COMPLY

7. **EXTRA EQUIPMENT** - The following extra equipment is to be included with the basic configuration delivered installed on tractor. Added controls for mower operation to be mounted in a manner to minimize operator obstruction of mower.

- .1 Provide the operator's, maintenance and parts manuals in English for tractor and mower. PROVIDE DETAILS

NOTE DETAILS OF THE EQUIPMENT SUPPLIED

SPECIFICATIONS 20' EXTREME DUTY TRIPLE GANG FLAIL MOWER	COMPLY	EXCEPTIONS, DEVIATIONS AND ANSWERS
SPECIFICATIONS REQUIRED	Yes/No	List exceptions, deviations and answers
<p>General</p>		
<p>It is the purpose of the following specifications to describe a self propelled, hydraulically powered flail type mowers, which shall mow forward, right and left of rear tires and shall have a rear centered flail mower. All installed at time of delivery.</p> <p>The unit shall be of the manufacturer's current production model, meeting or exceeding the terms of these specifications.</p> <p>The manufacturer shall furnish parts, maintenance and operation manuals for the unit(s) bid. The manufacturer shall also guarantee equipment against defects in workmanship and materials for a period of one (1) year.</p> <p>For any offer to be considered, all items must be of a standard production model, not modified for bid purposes.</p>		
<p>SAFETY AND TESTING</p>		
<p>Shall be tested to meet or exceed all applicable ANSI, SAE, and ASAE test standards</p>		
<p>SPECIFICATIONS REQUIRED FOR ALL MOWERS</p>		
<p>Knife interchangeability shall not require change of cutter shaft</p>		
<p>Cutting height shall be infinitely adjustable between -1/2" to + 6"</p>		
<p>Cutter shafts shall have bearing wrap protection</p>		
<p>All cutter heads shall have 6 5/8" diameter rollers, 1 3/8" double-row spherical bearings and replaceable 1 3/8" stub shafts with internal seal on greasable bearing and o-ring on 6 bolt heavy duty cap</p>		
<p>Cutter head shall have replaceable skid shoes.</p>		
<p>Cutter shaft shall have operating speed of 2,400 RPM at rated tractor RPM</p>		
<p>Knife swing circumference shall be a minimum of 58 1/2"</p>		
<p>SIDE MOWERS</p>		
<p>Cutting width is 20 feet of actual cut.</p>		
<p>Side-cutting assemblies shall be flail type, hydraulically powered.</p>		
<p>Cutter shafts shall be dynamically balanced, 6" diameter, 3/8" wall tubing with 2 3/16" diameter stub shafts and bearings.</p>		
<p>Each 75" cutter head shall have 80 forged, self cleaning, reversible all purpose knives, or 40 smooth cut grass knives.</p>		
<p>Cutter head arc shall be 150 o from vertical position (Side unit).</p>		

SPECIFICATIONS REQUIRED	COMPLY	EXCEPTIONS, DEVIATIONS AND ANSWERS
SIDE MOWERS CONT'D		
Cutter heads shall have 10 gauge, 80,000 PSI yield steel bonnet, 1/2" drive side and 3/8" carrier steel end plates. Cutter head shall have 20 1/4" of inboard travel.		
HYDRAULICS		
Hydraulic motor shall have a rating of 74 H.P.		
Motors shall have cast steel housing with steel gears		
Hydraulic pump shall be tandem gear type with a rating of 136 input H.P, producing 59.6 GPM (29.8 GPM each section) at 3,500 PSI.		
Mower drive control valve shall not cause restriction while cutter head in operation. Valve to stop cutting assembly in maximum of 3 seconds from full RPM		
Reservoir shall be internally treated against corrosion with industry approved chemical agent at time of manufacture. Reservoir shall be 26 gallons and equipped with intank filter rated at 75 GPM, 10 micron, 200 beta absolute element with restriction gauge, have positive pressure at suction outlet and ball valve at suction line		
Hydraulic cooler fan shall have reverser switch electric brake, be outdoor weather rated with maximum of 25 psi pressure drop and minimum heat transfer of 17,000 BTUH @ 50 o F ITD, 40 GPM, 720 CFM		
Hydraulic pressure connections shall meet SAE o-ring and JIC standards		
Pressure and return system hoses shall be 1" unrestricted inside diameter. Hoses shall have a burst pressure of 4 times working pressure.		
Lift assembly shall have four double acting cylinders controlling inboard and outboard ends of cutter heads.		
Lift control shall have four spool metering type valve, spring centered, with detented float position and pilot relief valve.		
Suction line shall be an unrestricted 1-1/4" inside diameter. (Specifically excluding suction filters and screens.)		
Drive belt system shall have automatic belt tightener. (Specifically excluding back bend belt tightener).		
Reverse rotation models shall be equipped with steel front deflector		
Rear safety discharge deflector shall be provided.		
Travel and transport locks shall be required.		
102" REAR PTO FLAIL		
Cutting width shall be at least 102" of actual cut.		
Cutting assembly shall be flail type, mechanically driven.		

SPECIFICATIONS REQUIRED	COMPLY	EXCEPTIONS, DEVIATIONS AND ANSWERS
102" REAR PTO FLAIL Cont'd		
Cutting shaft shall have a minimum of 112 all purpose, forged, self cleaning, reversible knives, or 56 smooth cut grass knives		
Cutting shaft shall be a minimum of 6" diameter, with 3/8" wall and 2 3/16" diameter bearings.		
Cutter shafts shall be dynamically balanced		
Cutting head weight shall be a minimum of 1,700 pounds.		
Cutting head shall have a minimum 1/2" solid steel sidewall on drive side and 3/8" on carrier side		
Bonnet shall be 7 gauge, 80,000 PSI yield steel		
Gearbox shall be reversible.		
Cutting head shall be rated for 540 RPM PTO drive.		
PTO shaft shall have a minimum rating of 65 horsepower.		
Cutter head shall have PTO shaft storage yoke		
Unit shall have three point hitch Category I and II mountings.		
Rear safety discharge flap shall be provided.		
Reverse rotation models shall be equipped with steel front Reflector		

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE
Revised 25/06/2013