



Tender for Grader

TENDER FOR THE SUPPLY AND DELIVERY OF (1) ONE NEW 2018 CURRENT PRODUCTION MODEL NINE LITRE (9L) MINIMUM ARTICULATED VARIABLE HORESPOWER MOTOR GRADER AND RELATED ATTACHMENTS

Tender NO. PW2018-03

Issue date: February 22, 2018

Please submit complete proposal, in a sealed envelope quoting above proposal number and closing date; and forward to:

Public Works Manager
The Corporation of the Township of Central Frontenac
P.O. Box 89
1084 Elizabeth Street
Sharbot Lake, Ontario
K0H 2P0

Closing Date: 2:00pm local time, Wednesday March 28th, 2018
Tender opening: 2:05pm local time, Wednesday March 28th, 2018

Proposals must be received prior to the above mentioned time and date, and in accordance with the attached Tender Forms, Instructions to Vendors, and Standard Terms and Conditions. The bid must be submitted on the tender forms as provided by the Township of Central Frontenac. Late bids will be rejected.

Contact:

Brad Thake
Public Works Manager
Phone (613) 279-2935 ext 223
Fax (613) 279-2422
bthake@centralfrontenac.com

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SECTION A:

FORM OF IRREVOCABLE OFFER:

TENDER FOR THE SUPPLY AND DELIVERY OF (1) ONE NEW 2017 CURRENT PRODUCTION MODEL NINE LITRE (9L) MINIMUM ARTICULATED VARIABLE HORSEPOWER MOTOR GRADER AND RELATED ATTACHMENTS as per the RFP Tender NO. PW2017-03

Issue Date: Thursday February 22, 2018

Closing Date: 2:00 pm local time on Wednesday March 28th, 2018

Proposal submission shall be made on this form with Schedule "A & B" attached.

THIS OFFER SHALL BE IRREVOCABLE FOR A PERIOD OF SIXTY (60) CALENDAR DAYS. LOWEST OR ANY PROPOSAL NOT NECESSARILY ACCEPTED.

YEAR OF PRODUCTION: _____ **MAKE:** _____ **MODEL** _____

DEALER: _____

ADDRESS: _____

DELIVERY DATE: _____

BID PRICE:

Motor Grader \$ _____

Sub Total \$ _____

Plus H.S.T. \$ _____

TOTAL: \$ _____

I/We _____ promise to supply a new,
(Print Name of Company)

Current Production Model Nine Litre (9L) Minimum Articulated Variable Horsepower Motor Grader and Related Attachments, built to the specifications as put forth by the Corporation of the Township of Central Frontenac in the Proposal package PW 2018-03 and delivered within the delivery date of July 6th, 2018, for the following sum

_____ Dollars _____ Cents,

(Write or Print the total amount bid)

In lawful money of the Dominion of Canada. It is further agreed that each day over the stipulated date of delivery shall result in a one hundred dollar (\$100.00) reduction to payment per day in default. All delivery costs associated shall be included in the total Tendered Price submitted. No additional charges shall be levied or in addition to the total Tendered Price.

SIGNATURE: _____ **WITNESS OR SEAL:** _____

(SIGNATURE OF PERSON SIGNING ON BEHALF OF TENDERING COMPANY)

POSITION IN COMPANY: _____

DATE: _____

SECTION B:

GENERAL CONDITIONS

Clarification

It will be the bidder's responsibility to clarify any details in question before submitting a Quotation. All official correspondence in regards to the specifications should be directed in writing to the Public Work's Manager for the Township Of Central Frontenac no later than 4:00pm March 2nd, 2018. The Municipality will assume no responsibility for oral instruction or suggestion.

No changes may be made to bids after they have been received. If more than one tender is submitted by a bidder, the only one considered and opened will be the envelope with the most recent time/date of receipt. Electronically transmitted tenders (ie. fax or email) will not be considered.

Supplier may submit more than one proposal if they have a second unit that they recommend as a feasible alternative to the requirements as laid out in this document.

Supplier may submit company brochures with the submission.

The envelope is to include the bidding company name and return mailing address.

Withdrawal of Quotations

Companies will be permitted to withdraw their Quotation, unopened after it has been deposited, if such a request is received by the Public Work's Manager, prior to the time specified for the closing of Quotations.

Rights of the Municipality

The Owner hereby reserves the right, privilege, entitlement and absolute discretion, and for any reason whatsoever to:

- i) accept a Bid which is not the lowest Bid, where such Bid is deemed most advantageous to the interests of the Owner or that may provide the greatest value advantage and benefit to the Owner based upon price, ability, quality of work, proposed schedule, service, past experience, past performance and qualification;
- ii) reject a Bid that is the lowest Bid even if it is the only Bid received;
- iii) cancel this Call for Bids at any time, either before or after the Closing Time;
- iv) accept or reject any and all Bids, whether in whole or in part;

- v) award any part of any Bid; or
- vi) accept or reject any unbalanced Bid.

The Owner reserves the right to consider, during the evaluation of Bids:

- i) information provided in the Bid itself;
- ii) information provided in response to enquiries of credit, experience and industry references set out in the Bid;
- iii) information received in response to enquiries made by the Owner of third parties apart from those disclosed in the Bid in relation to the reputation, reliability, experience and capabilities of the Bidder;
- iv) the manner in which the Bidder provides services to others;
- v) the compliance of the Bidder with the Owner's requirements and specifications; and;
- vi) Innovative approaches proposed by the Bidder in the Bid where requested in the Bid Documents.

By submitting a Bid, the Bidder acknowledges the Owner's rights under this Section and absolutely waives any right, or cause of action against the Owner and its consultants, by reason of the Owner's failure to accept the Bid submitted by the Bidder, whether such right or cause of action arises in contract, negligence, or otherwise.

Sales Tax

H.S.T. extra unless otherwise stated herein.

Freedom of Information

Any information including all work as described in these documents, service or product details, prices, statements, and any other information provided by the bidder shall be kept strictly confidential and release of same, except for any details regarding this bid document stated in a report to the Council of the Municipality, shall only be granted in accordance with the *Municipal Freedom of Information and Protection of Privacy Act R.S.O.1990, c.M.56* as amended.

Firm Prices

Prices quoted are to be in Canadian Funds and are to remain firm for acceptance for a period of sixty (60) days unless otherwise stated herein.

Original Quotation Documents

It is to be understood that all terms and conditions, specifications, drawings, plans, all Proposal clauses, and the complete Proposal containing all documents as originally issued by the Township of Central Frontenac shall constitute the Request for Proposal document. Any completed tender forms received that have clauses or any words or figures, statistics, numbers, quantities or any other items that have been changed or altered in any way may be rejected and not accepted by the Township of Central Frontenac.

Agreement in Writing Only

No verbal arrangement or agreement, relating to goods, materials, articles, equipment, work or services, specified or called under this Proposal, will be considered binding, in every notice, advise or other communication pertaining thereto, must be in writing and signed by a duly authorized person.

Standards and Legislation

The successful bidder may be required to provide written documentation that all materials offered on the bidder's quotation meet all applicable Municipal, Provincial and Federal Government standards, legislation and law.

Failure to Comply with all Tender/Proposal Terms

Failure to comply with all terms, specifications, requirements, conditions and general provisions of this Proposal, to the satisfaction of the Municipality, shall be just cause for the cancellation of the contract award. The Municipality shall then have the right to award this contract to any other contractor or to re-issue the RFP. The Municipality shall assess against the contractor any damages whatsoever as a result of failure to comply.

New Goods and Materials Only

Unless otherwise stated all goods supplied as a result of this Request for Proposal shall be new only, never used, of the latest or specified manufacturing date and not re-manufactured.

Quotation Preparation Costs

The Municipality shall not be responsible for the costs incurred by any Bidder to prepare and submit a quotation or any subsequent documents relating to a quotation.

Delivery Information

- i) The prices stated in this quotation cover the goods, materials, licensing, articles or equipment, referred to herein, being delivered F.O.B. destination, freight, express, duty and all other charges prepaid, unless otherwise indicated herein. A detailed delivery ticket or piece tally, showing the exact quantity of goods, materials, articles or equipment, shall accompany each delivery thereof. A storekeeper's or other receivers receipt shall not bind the Municipality to accept the goods, materials, articles or equipment covered thereby, or the particulars of the delivery ticket or piece tally therefore.
- ii) In the event that goods, materials, articles or equipment, specified or called for herein, are to be furnished from a point outside Canada at a price which is expressly not to include importation charges into Canada or delivery in the Central Frontenac area, the Canada Customs Invoice in quadruplicate, with Bill of Lading, Export Entry form, Express receipt of advice of shipment by Parcel Post, shall be mailed to the Township of Central Frontenac, P.O. Box 89, Sharbot Lake, ON, Canada, K0H 2P0.
- iii) Should an additional tax or duty or any variation in any tax or duty, become directly applicable to goods, materials, licensing, articles or equipment, specified or called for in this Tender, subsequent to its submission by the Bidder and before the delivery of the goods, materials, licensing, articles or equipment pursuant to an official order issued by the Municipality the appropriate increase or decrease in the price of such goods, material, licensing, articles or equipment, shall be made to compensate for such changes as of the effective date thereof.
- iv) Unless otherwise stated, all goods, materials, licensing, articles or equipment supplied pursuant to this condition shall be subject to inspection by the Municipality at the point of unloading. No extra charge shall be made by the Vendor for packaging, packing or containers, unless otherwise indicated herein.
- v) The Bidder agrees that the goods, materials, licensing, articles, equipment specified or called for in or under this Proposal, will be delivered within the period set out herein as the guaranteed period of delivery or completion after receipt of an official purchase order or contract.

Protection of the Municipality

The successful bidder shall at all times well and truly save, defend, keep harmless and fully indemnify the Municipality and its servants, employees and agents, from and against all actions, suits, claims, demands, loss, costs, charges, damages and expense, brought or made against or incurred by the Municipality, its servants, employees or agents, in any way relating to goods, materials, articles or equipment, supplied pursuant to this RFP.

Erasures and Alterations

Any erasures, alterations or cross-outs must be initialed in ink by the bidder. Failure to do so may result in the rejection of the bidder's quotation by the Municipality.

Limitation and Waiver of Damages

The Bidder, by submitting a quotation, agrees that it will not claim damages, for whatever reason, relating to the RFP or pursuing Contract, or in respect of the competitive process. The Bidder, by submitting a quotation, also waives any claim for loss of profits if no agreement is made between the Bidder and the Municipality.

Bid Results

Notification of the prices received by any or all bidders shall not be made known until the Municipal staff have had sufficient time to review all bids received. Any notification of prices received shall be in accordance with the *Municipal Freedom of Information and Protection of Privacy Act* R.S.O.1990, c. M.56 as amended.

Removal from Bidders List

The Municipality reserves the right to remove from its list of bidders, for an indeterminate period, the name of any bidder who fails to execute or accept a contract or purchase order or for unsatisfactory performance on any previous or current contract held with the Municipality or if the bidder is currently involved in litigation of any kind against the Municipality.

Additional Requirements

The Township of Central Frontenac reserves the right to add or delete items listed herein following the award of any contract(s) or purchase order(s) resulting from this bid document. Unit prices stated by the bidder shall apply.

Extension of Contract or Purchase Order

The time period duration of any contract or purchase order resulting from this Proposal may be extended for a specific period provided that both the Municipality and the successful bidder agree to such extension. The Municipality may notify the successful bidder at any time to seek an extension.

Award of Contract

- i) The award of any contract that may result from this Proposal may be subject to budget approval. The Township of Central Frontenac reserves the right to negotiate price or terms with the low bidder should the bid price be over the budget allotted for this project. Items identified in the bidder's offer may be eliminated to lower the overall total price of the bidder's quotation. Should negotiations with the low bidder not be successful, the Township reserves the right to enter into negotiations with the next lowest bidder or bidders or to cancel the bid outright or to cancel and recall the quotation.
- ii) Prior to an award, the Bid Form and the quotation submitted becomes part of the contract document or Purchase Order. The bidder must accept the Municipality's Contract or Purchase Order which will supersede all other contracts. The Municipality reserves the right to reject any Proposals which may be restricted by the clauses in a bidder's proposal submission.

Quotation Submission and Correspondence in English

Quotation submissions must be prepared in English and bidders must be able to converse and correspond fluently in English directly or through an interpreter supplied by and at the total cost to the bidder.

Liability for Errors

While the Township of Central Frontenac has used considerable efforts to ensure an accurate representation of information in this RFP, the information contained in this RFP is supplied solely as a guideline for bidders. The information is not guaranteed or warranted to be accurate by the Township, nor is it necessarily comprehensive or exhaustive. Nothing in this Proposal document is intended to relieve bidders from forming their own opinions and conclusions with respect to the matters addressed in this Proposal document.

Modification of Terms and Addendums

The Township of Central Frontenac reserves the right to modify the terms of the RFP document. Any modifications or changes to the RFP will be issued in the form of an addendum and will be sent to all bidders who have picked up or have requested a copy of the RFP from the Township.

Adjustments to Proposal Submissions After Closing Date

No adjustments by any bidders to their Proposal submissions will be permitted after the stated closing date for this Proposal, except as otherwise provided herein.

Broader Public Sector (BPS) organizations including municipalities

The Township of Central Frontenac is part of the Broader Public Service of the Province of Ontario and as such is entitled to the concessions (discounts) as arranged by the Ministry of Government Services under VOR: OSS 074423.

All inquiries concerning this RFP please contact:

Brad Thake

Public Works Manager

Township of Central Frontenac

PO Box 89

Sharbot Lake, ON K0H 2P0

Telephone: 613 279-2935 ext. 223

Fax: 613 279-2422

E-mail - bthake@centralfrontenac.com

All proposals must be submitted and received at the Township Municipal Office by the date and time of closing, in a sealed envelope clearly marked with the tender number.

Township of Central Frontenac

1084 Elizabeth Street,

Sharbot Lake, ON, K0H 2P0

SECTION C

Schedule "A"

This specification covers a motor grader used in the maintenance of highways and municipal roads.

This specification covers only the major details of a unit. It is the supplier's responsibility to deliver a fully equipped unit with compatible components to provide dependable efficient service.

Nomenclature shall be to SAE Standard J870 unless otherwise stated.

Units shall be supplied only with graders' standard or advertised optional engine. Graders with non-advertised or altered engine horsepower settings will not be accepted. Only currently advertised and factory approved engine and drive train combinations are acceptable.

North American Manufacturer is preferred, specify manufacturing location:_____

TENDERED UNITS MUST COMPLY WITH THE FOLLOWING SPECIFICATIONS IN ALL ASPECTS. ALTERNATIVE COMPONENTS, WHICH MEET THE REQUIREMENT OF THIS SPECIFICATION BUT ARE NOT IDENTIFIED IN THE SPECIFICATION, MUST BE APPROVED BY THE PURCHASER PRIOR TO TENDER CLOSING.

| Specification | YES | NO | Confirmation |
|--|-----|----|--------------------------------------|
| <u>1. MAKE & MODEL</u> Specify the make and model of unit being tendered. | | | Specify Make: Specify Model: |
| NEW 2018 current production model. Demo or houred machines will not be considered. | | | |
| <u>2. WEIGHT</u> The basic weight of the grader with cab and the equipment specified but excluding the weight of the scarifier and any attachments e.g., snow plow equipment, shall be 36500 lb minimum. | | | Specify: |
| Weight on the rear tandem wheels of the grader as above shall be 25500 lb. minimum | | | |
| Total Weight of the grader specified as requested with attachments | | | Specify: |
| <u>3.ENGINE</u> The engine shall be 6 cylinder diesel, 4 stroke cycle, turbo-charged, Diesel. | | | |
| Engine shall be wet sleeve design | | | |
| Tier Certification shall be Current Canadian Standards or newer. Tier 3 or higher level will be accepted. | | | Specify Tier Level: |
| Rated net brake horsepower shall be no less than: 250 H.P with engine fan running at full R.P.M. in High Range (Top Gears) | | | Specify H.P: Specify R.P.M: |
| Manufactures literature shall verify Horsepower | | | |
| The engine shall be variable horsepower | | | Engine Make: Model: |
| Displacement shall be 9.0 Litre minimum | | | Specify: Litres: Cubic Inches: |
| Net Peak Torque shall be no less than 920 ft-lbs. | | | Specify: |
| The machine shall be equipped with an anti-stall feature. As engine pull down gets too low the transmission will drop down a gear or shift to neutral to prevent an engine stall. | | | |

| Specification | YES | NO | Confirmation |
|--|-----|----|---------------------------------|
| <p>4.Performance Maximum net rim pull shall be developed at a road speed less than 2 m.p.h. (rim pull is calculated as total rear base weight x .9 friction factor– All Wheel Drive based on total weight)</p> | | | Specify Rim Pull: Speed: |
| <p>5.ENGINE EQUIPMENT The following equipment shall be supplied</p> | | | |
| <p>Spin on filters for the following</p> <ul style="list-style-type: none"> • Hydraulic oil • Differential oil • Transmission oil • Engine oil • Fuel | | | |
| A centrifugal type intake air precleaner shall be installed | | | |
| A fuel water separator | | | |
| Air Filter - two-stage, dry element, ejector, and a restriction indicator, which is clearly visible from the cab. | | | |
| Battery(s) - maintenance free, 12 volt, combined CCA rating of (2800) minimum. | | | Specify capacity: |
| Engine air intake manifold pre heater | | | |
| Engine coolant heater, 1500 watt 120 volt | | | Specify: |
| A brushless alternator with a minimum output of 130 amperes for a 24 volt system | | | Specify: |
| Anti-Freeze to -35 °C | | | |
| Fuel Tank shall be FULL on delivery | | | |
| Ground level fueling | | | |
| Automatic Reversing High Capacity fan | | | |
| Swing out rear fan door | | | |
| <p>6.TRANSMISSION Shall be designed by the manufacturer to match the engine</p> | | | |
| Transmission shall be a direct drive power shift with a minimum of 8 speeds forward and 6 speeds reverse | | | Specify: |
| Transmission shall have auto shifting feature | | | |
| Transmission shall have shuttle shift feature | | | |
| Transmission guard with side shields to be included | | | |

| Specification | YES | NO | Confirmation |
|--|-----|----|--------------------------|
| Transmission shall have built in self diagnostic capability | | | |
| <u>7.HYDRAULICS</u> Hydraulic system shall be closed centre, load sensing type with a variable displacement piston pump | | | |
| Hydraulic pump shall produce 200 litres per minute at 2000 rpm | | | Specify: |
| Blade lift cylinders shall have independent float capability | | | |
| Hydraulic and power train systems shall have separate oil reservoirs | | | |
| Weather Guards shall be provided over auxiliary hydraulic Valve banks | | | |
| A hydraulic pump unloader valve shall be equipped for cold starts and will bypass the hydraulic system to allow the engine easier starts in cold weather. | | | |
| <u>8.AXLES</u> Rear axles - tandem drive, oscillating type rear axle | | | |
| Differential with lock-up feature and in-cab control. | | | |
| Differential shall have lock/unlock capability under full load | | | |
| Dash mounted light shall be illuminated when diff lock is on | | | |
| Front axle - shall be provided with hydraulic leaning wheels. | | | |
| Differential shall have an Automatic lock/unlock feature. The lock up feature will disengage when the machine turns out of straight and will lock up when returned to straight. This feature will work automatically without operator input. | | | |
| Powertrain, consisting of transmission, final drive and engine shall be protected on the underside by full heavy duty bottom guards, complete with removable inspection plates | | | |
| The Front Axle shall be All Wheel Drive type and shall be effective in gear 1 to 7. | | | Specify Effective Gears: |
| Bottom guards shall be factory installed | | | Specify: |
| <u>9. TIRES AND RIMS</u> Tires shall be tubeless radial type | | | |

| Specification | YES | NO | Confirmation |
|--|-----|----|--------------|
| Approved Tires : 17.5R25 Michelin SNO PLUS Tires | | | |
| Front and Rear Molded Plastic Factory Installed fenders shall be installed, allowing access to engine without hood and panel interference. | | | |
| Rims – 3 Piece | | | |
| <u>10.STEERING</u> Steering system shall be hydraulic power assisted | | | |
| The steering system must provide steering control in case of engine failure. | | | |
| A functional steering wheel shall be supplied | | | |
| <u>11.FRAME</u> The frame shall be constructed of welded steel members of either box or tubular section, or a combination of these two types. | | | |
| The frame shall be articulated behind the cab | | | |
| The articulation joint shall have a mechanical locking device to prevent frame articulation while servicing or transporting machine and shall be located behind the cab. | | | |
| <u>12.CAB</u> Weather proof cab with two operator access doors. | | | |
| Low profile cab. Max. Grader Height to be no more than 10'6" | | | Specify: |
| An air suspension heated seat with adjustable armrests. | | | |
| 76 mm (3 in.) wide retractable seat belt as per SAE J386 | | | |
| Upholstery - cloth | | | |
| Safety Glass - tinted safety glass throughout. | | | |
| Powered Cab air intake to be Filtered and Cab Air recirculation to be filtered | | | |
| Glass embedded electric rear window defroster to be supplied. | | | |
| Two sliding side windows and 2 lower front opening windows to be supplied | | | |
| Windshield wipers with washers - front, rear, and two front lower level windows | | | |

| Specification | YES | NO | Confirmation |
|--|-----|----|--------------|
| All wipers to have intermittent function. | | | |
| Heater - Fresh air heater to maintain temperature: of 21°C inside cab with temperature of -45°C outside, shall be supplied. Air intake to heater must be outside the cab. Air to heater from outside must be filtered. Heater to be 31500 BTU minimum. | | | |
| Defroster must have vents to be able to defrost the front rear and side windows. | | | |
| Air conditioning with cab pressurizer (28,000 BTU minimum) | | | Specify: |
| Mirrors - Two outside heated convex mirrors (supplied), 157 mm x 406 mm (6" x 16") approx. mounted left and right side on foldaway brackets | | | Specify: |
| Inside rear view mirror to be supplied | | | |
| A rear vision Camera shall be Supplied | | | |
| Cab Lighting – illuminated entry, instrument panel lights and dome light with separate switch. | | | |
| Grab handles for cab entry | | | |
| Left and right cab access steps | | | |
| 3 points of contact on all areas of the grader for mounting and dismounting. | | | |
| Slope meter – Center Mounted or Equivalent | | | |
| Front visor | | | |
| Rear sun screen | | | |
| Cooler/lunch box storage with cup holder. | | | |
| 5 lb. multipurpose (ABC) dry chemical fire extinguisher | | | |
| Coat hook. | | | |
| <u>13.NOISE SUPPRESSION</u> | | | |
| The preferred sound level in cab shall not exceed 72 Db (A) as per ISO 6394:1998 (enclosed cab). | | | |
| Sound absorption package to be included in the engine Compartment, factory installed. | | | |
| <u>14.CONTROLS</u> | | | |
| The entire front control console with steering wheel shall be infinitely adjustable fore & aft as a single unit | | | |
| Foot accelerator and hand throttle, shall be supplied. | | | |

| Specification | YES | NO | Confirmation |
|--|------------|-----------|------------------------|
| Electronic throttle control (cruise control) shall be supplied. And shall cancel by applying service brake. | | | Specify dB (A): |
| Electric over hydraulic control levers integrated into the seat arm rests or joystick controls shall be supplied. Enclose with the bid a diagram/schematic Or picture of the control pattern proposed | | | |
| The Grader shall be equipped with an automatic blade control system capable of controlling cross slope automatically from the right side or left side. This may accomplished with a Trimble, TopCon or on board factory system. Include literature with the bid. | | | |
| Grade Control System included | | | |
| List 5 Ontario customers currently using proposed controls with proposed system. 1. 2. 3. 4. 5. | | | |
| <u>15.BRAKES</u> Braking system shall be ISO 3450 compliant | | | |
| Service Brakes - wet disc type effective on all four wheels of the tandem drive and shall be air or hydraulic power boosted | | | |
| Backup system to provide braking if engine fails. | | | Specify Make and Model |
| Parking Brakes - shall operate independently of the service brake system. | | | |
| Parking brake shall be spring applied, hydraulically released. | | | |
| <u>16.CIRCLE AND MOLDBOARD</u> Operating mechanism – moldboard operating mechanism shall be power operated | | | |
| It shall be capable of lifting and lowering (bank sloping 90°) side shifting and revolving of the moldboard | | | |
| It shall be capable of lifting and lowering (bank sloping 90°) side shifting and revolving of the moldboard | | | |

| Specification | YES | NO | Confirmation |
|--|------------|-----------|---------------------|
| It shall be possible to side shift the moldboard hydraulically with reference to the blade circle | | | |
| Stability - the mechanism shall be capable of holding the moldboard rigidly in any selected position without chatter, deflection or drift. | | | |
| Circle to be protected via overload counterbalance valve or slip clutch. | | | |
| Heavy duty circle support system with a minimum of 5 guide and clamp plates | | | |
| Heavy duty wear inserts to be supplied for circle and moldboard | | | |
| Length – shall be 14 ft | | | |
| Thickness – 1” | | | |
| Height 27 in. minimum | | | |
| Cutting edges shall be 3/4” x 8 with 3/4” hardware | | | |
| Moldboard impact system to be supplied with accumulators frame mounted and switch controlled by the operator | | | |
| Right and left independent floats shall be supplied for the moldboard | | | |
| Moldboard to be drilled to accept carbide edges | | | |
| <u>17.ELECTRICAL SYSTEM</u> | | | |
| All external wiring shall be enclosed in some manner to protect it from environmental damage and all connections should be made in a sealed enclosure. | | | |
| <i>The following items to be supplied:</i> 24 volt electrical system with master disconnect switch | | | |
| Back up alarm- minimum 100 dBA | | | |
| Odometer | | | |
| Hourmeter | | | |
| Tachometer | | | |
| Volt or amp meter | | | |
| Fuel gauge | | | |
| Hydraulic oil temperature gauge | | | |
| Transmission oil temperature gauge | | | |

| Specification | YES | NO | Confirmation |
|--|------------|-----------|---------------------|
| 30 Amp (24V to 12V) converter with 2 power ports | | | |
| Electric horn | | | |
| Factory installed AM/FM/WB radio with Bluetooth and Aux. port to be supplied | | | |
| <u>18.LIGHTING</u> <i>The following lights shall be supplied:</i> Four LED plow lights with signal lights on low mounting par | | | |
| Two LED work lights mounted left and right side of main frame forward of lift cylinders | | | |
| Two LED moldboard lights | | | |
| Two LED cab mounted headlights | | | |
| Two LED cab mounted work lights | | | |
| Two LED right side cab mounted wing lights | | | |
| Two LED back up lights | | | |
| Two LED engine compartment lights | | | |
| LED lights at rear of grader to include stop, tail and turn signal lights | | | |
| LED turn signal lights mounted on front light mounting bar | | | |
| Four way hazard flashing light system | | | |
| Two engine service compartment lights. | | | |
| One amber and one Blue strobe light separately switched and mounted on fold down brackets on the rear the cab | | | |
| Vehicle side reflectors | | | |
| <u>20.WEATHER GUARDS</u> All vertical intake and exhaust stacks shall be supplied with weather guards | | | |
| 45° exhaust elbow to be included. | | | |
| A guard shall be provide to protect the underside of the rear frame section of the grader | | | |
| <u>21.EQUIPMENT</u> Operator's manual, repair manual and spare parts catalog shall be supplied with the grader In hard copy and on CD or Memory Stick. | | | |
| A Safety, Maintenance, and Operation video/DVD | | | |
| Tool box | | | |

| Specification | YES | NO | Confirmation |
|---|-----|----|--------------|
| Front fenders of molded plastic with flaps that move in conjunction with the tires without interference | | | |
| Rear fenders of molded plastic with flaps allowing access To engine without hood panel interference. | | | |
| Slow moving sign. Shall be supplied | | | |
| Single key locks for entire vehicle | | | |
| <u>23.ENVIRONMENTAL</u> Environmental drain provisions shall be provided for The following: <ul style="list-style-type: none"> • Engine Fuel • Hydraulic oil • Engine oil • Engine coolant • Transmission oil • Differential oil Fuel tank | | | |
| Colour- coded fluid sampling valves/ports | | | |
| Bio diesel compatible | | | |
| The 1st engine service shall be performed at NO CHARGE to TWP including oil, filter, labour and full machine inspection | | | |
| A complete set of Filters is to be provided. | | | |
| <u>24. TELEMATICS</u> To included 5 years at no charge machine monitoring system./ telematics system. | | | |
| <u>25.ATTACHMENTS</u> Attachments to be painted manufacturers charcoal | | | |
| CPL or approved equivalent auto lube system to be supplied | | | |
| Front Lifting Device for universal hook up of attachments shall be supplied Craig Uni-100 | | | |

| Specification | YES | NO | Confirmation |
|--|-----|----|--------------|
| Craig High Bench Type 302-12RM Snow Wing Shall be supplied and Installed. The wing will have High Wear Ni-Hard cutting edge installed. | | | |
| The wing to have float function on the front and rear of the wing | | | |
| Front Lights to be High Mounted on light bars. | | | |
| Blade Impact Accumulators to protect the high lift cylinders are to be included | | | |
| Craig 1072 series one way front plow shall be supplied and installed. Plow will have factory equipped hydraulic moldboard pitch. | | | |
| <u>26.PAINT</u> Shall be manufacturer's standard colours. | | | |
| <u>27.WARRANTY</u> The equipment shall include the standard manufacturer's (1) one year full warranty | | | Specify: |
| Extended powertrain warranty for 5 years / 5000 hours to be included | | | |
| Warranty shall be effective from Customers in service date | | | |
| <u>28.DELIVERY</u> Delivery shall be FOB the Customers shop | | | |
| Delivery time frame after receipt of purchase confirmation | | | Specify: |

| |
|--|
| Signature of bidder: _____ Date signed: _____ |
|--|

SECTION D

Schedule "B"

New 2018 Current Production Model Nine Litre (9L) Minimum Articulated Variable Horsepower Motor Grader and related Attachments

1. Warranty

The equipment shall include the standard manufacture's warranty

YES:

NO:

A signed copy of which shall be included with the proposal.

TERMS: _____

The option for additional Full Machine Warranty for

YES:

NO:

60 month/5000 Hour coverage are to be provided.

TERMS: To Be Attached