



REQUEST FOR PROPOSALS

Supply and Delivery Of One (1) Wheel Loader Saskatoon John G. Diefenbaker International Airport

February 20, 2020



DATES TO REMEMBER

Last Day for Questions: Friday, March 6th, 2020 11:00 a.m. Saskatoon Time

Closing Date and Time: Thursday, March 12, 2020 2:00 P.M. Saskatoon Time

Award By: Tuesday, March 31, 2020



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PART 1:

INVITATION AND INSTRUCTIONS

1. Invitation

The Saskatoon Airport Authority (the "SAA") invites Proponents to submit a proposal for the supply and delivery of one (1) only Wheel Loader in accordance with the Form of Proposal outlined in Part 2 of this Request for Proposals (RFP) and Schedule 1 Requirements and Specifications Check List attached.

Proponent must submit all information requested on the Form of Proposal and accompanying Schedules that follow these instructions.

Note: Names of Proponents will not be disclosed and the SAA reserves the right to add or remove Proponents at its sole discretion. The SAA also reserves the right not to accept any Proposal submitted.

2. Closing Date and Time of Proposals

Proposals will be received by the SAA until **Thursday, March 12, 2020 at 2:00 P.M. Saskatoon Time (14:00 CST)** and then privately opened.

Proposals may be submitted either electronically or in hard copy as follows:

By Drop-Off: Saskatoon Airport Authority
2nd Floor Air Terminal Building
Saskatoon John G. Diefenbaker International Airport
Saskatoon, SK

By Mail: Saskatoon Airport Authority
Suite 1, 2625 Airport Drive
Saskatoon, SK Canada
S7L 7L1
Attention: Beverly Horne
Lease and Contract Administrator

By Email: Bev@skyxe.ca

3. Request for Proposal Documents

The "Documents" consist of:

Part 1 Invitation and Instructions

Part 2 Form of Proposal

- Organizational Structure
- Customer Service and Quality Control
- Technological Capabilities
- Pricing
- Execution, and
- Addenda, as may be issued from time to time

Schedule 1 Requirements and Specifications Compliance Checklist

4. General Information

- .1 The SAA may issue additional information, clarification or modification of the Documents by written addendum. The SAA shall not be bound by oral or other informal explanations or clarifications not contained in such addenda.
- .2 The SAA will consider all questions received by **11:00 A.M. Friday, March 6, 2020**. All written enquiries must be directed to the attention of Nick Purich, Vice President Corporate Administration and CFO, Email: npurich@skyxe.ca and Eric Desnoyers, Manager Facilities, Email: edesnoyers@skyxe.ca.
- .3 All RFP submissions must be in writing and received before the Closing Date and Time at the address set out above.
- .4 Proponents shall notify the SAA in writing should they find any inconsistency, discrepancy, ambiguity, error or omission in the Documents.
- .5 All written addenda issued by the SAA before the Closing Date and Time shall be delivered to all Proponents who have received Documents according to the records of the SAA. All addenda shall be incorporated into and become part of the Documents.
- .6 Proponents shall complete the Form of Proposal acknowledging receipt of all addenda.
- .7 Proponents shall examine all Documents relating to this RFP and make an independent judgement as to circumstances and conditions affecting the business opportunity and their Proposal. Failure on the part of Proponents to examine and investigate thoroughly shall not be grounds for any claim that Proponent did not understand the conditions of this RFP.

- .8 Each Proponent shall, before submitting its Proposal, thoroughly examine and assess the mandatory requirements and specifications set out in this RFP, the equipment and materials needed, all relevant laws, rules, notices, directives, standards, orders and regulations, licensing and permit requirements and other circumstances which may affect its Proposal. Submission of a Proposal constitutes a representation by the Proponent that it is familiar with and accepts all of the foregoing.

5. Submission of Proposal

- .1 Proposals shall conform to all Instructions.
- .2 The SAA shall receive proposals before the Closing Date and Time. Proposals received after the Closing Date and Time may be returned unopened. **Proposals sent by facsimile will not be accepted.**
- .3 Proposals shall be prepared and completed on the attached forms, with all schedules fully and properly completed. Should there be insufficient space on the Form of Proposal or Schedules, additional sheets appropriately marked and identified may be attached. No additions, deletions, interlineations or modifications shall be made to the Form of Proposal or the Requirements and Specifications.
- .4 Proposals shall be dated and signed by one or more duly authorized signing officers of the Proponent as requested in Part 2, Item 5, Execution.
- .5 The SAA will assume that all statements, oral or in writing, made by persons submitting Proposals are true, accurate, complete and not misleading. All such statements will constitute representations and warranties made to the SAA.
- .6 Proposals that contain qualifying conditions or otherwise fail to conform to these Instructions may be disqualified or rejected. Anything to the contrary herein notwithstanding, the SAA may elect to retain for consideration Proposals that are non-conforming, and may waive any non-compliance, irregularity, error, or time stipulation required by these Instructions. The stipulations herein are for the sole benefit of the SAA and may be waived by the SAA unilaterally.
- .7 A Proponent may submit a revised Proposal providing it is received prior to the Closing Date and Time, it is accompanied by a request in writing, and it is submitted in accordance with these instructions.

6. No Obligations on the Part of the SAA

- .1 The evaluation of responses will be based on a number of factors, weighted according to the needs of the SAA. The lowest or any Proposal will not necessarily be accepted. Any implication that the lowest or any Proposal will be accepted is hereby expressly negated. The SAA reserves the right to accept the Proposal that it deems most advantageous, and the right to reject any or all Proposals for any reason. In no event will the SAA be responsible for the costs of preparation and submission of Proposals.
- .2 The SAA reserves the right to negotiate with any Proponent or with another Proponent or Proponents concurrently. In no event shall the SAA be required to offer any modified terms to other Proponents. The SAA shall incur no liability to any other Proponent as a result of such negotiations or modifications.
- .3 The SAA recognizes that the information required is confidential and will not disclose details of any submission to any other Proponent.
- .4 Each Proponent submitting a Proposal acknowledges and agrees, by submitting a Proposal, that the SAA will have no liability or obligation to any Proponent except only the Proponent, if any, awarded a contract by the SAA in its sole discretion and each Proponent agrees that, if it is not awarded a contract, then whether or not any express or implied obligation has been discharged by the SAA, the SAA shall be fully and forever released and discharged of all liability and obligation in connection with this RFP.
- .5 In particular, the SAA shall not be under any obligation to return or save any copies of any Proponent's Proposal, and all Documents submitted to the SAA, whether original or copies, shall be kept or disposed of by the SAA.
- .6 Notice of award will be in writing by an authorized representative of the SAA.
- .7 This RFP is the property of the SAA and is not to be disclosed, reproduced, or distributed without the prior written consent of the SAA. Copyright and all related rights are expressly asserted and reserved.

7. Qualifications and Modifications

- .1 Proposals that contain qualifying conditions or fail to conform to these Instructions may be disqualified or rejected. Collusion between Proponents is sufficient cause for rejection of all Proposals affected.
- .2 Proposals may only be modified in writing, signed by an authorized signing officer of the Proponent who has signed the Form of Proposal. The SAA shall receive modifications by Closing Time. Modifications made verbally, by facsimile or by email transmission will not be accepted and modifications received after the Closing Date and Time will not be considered and will not form part of any Proposal submitted.

8. Waiver of Non-Compliance

Notwithstanding anything to the contrary in the RFP, if a Proponent fails to complete its Proposal in compliance with this RFP, the SAA in its sole discretion may waive such non-compliance, seek clarification or additional information from the Proponent and consider and treat the proposal as a conforming Proposal even if any such non-conformance or failure to comply with the requirements of this RFP would otherwise render the proposal null and void. Without limiting the generality of the foregoing, the SAA reserves the right to accept or reject any Proposal which is incomplete, obscure or irregular, who contains exceptions and variations, which are submitted after the Closing Date and Time, is unsigned, or which omits any matter that is required to be submitted.

9. Open For Acceptance

The Proponent's offer shall remain open for acceptance for thirty (30) business days from the Closing Date and Time. During this period the SAA may make arrangements with the Proponent to visit and tour the proponent's facility and view/inspect the Wheel Loader or similar model. In the event that the SAA requires more time than the 30 business days as identified, the additional time period will be requested from all Proponents. Every effort shall be made by the SAA to award by the date previously identified, specifically March 31, 2020.

10. Amendments and Withdrawals

No Proposal or price quotation forming part of a Proposal shall be amended or withdrawn after the Closing Date and Time. Negligence on the part of the Proponent confers no right for the amendment or withdrawal of a Proposal after the Closing Date and Time. In the event of pricing extension errors, the unit price will apply. In the event of a numerical discrepancy or error in a Proposal, the written number will apply. Proposals may be amended or withdrawn upon written request *before* the Closing Date and Time. Telephone communication will not be accepted.

11. Liability for Errors

The SAA shall not be held liable or accountable for any error or omission in any part of this RFP or response to Proponent questions. While the SAA has made efforts to ensure an accurate representation of information in this RFP, the information contained in the RFP is supplied solely as a guideline for Proponents. The information is not guaranteed or warranted to be accurate by the SAA nor is it necessarily comprehensive or exhaustive. Nothing in this RFP is intended to relieve Proponents from the responsibility of conducting their own investigations and research and forming their own opinions and conclusions with respect to the matters addressed in this RFP. Proponents will be solely responsible to ensure their Proposal meets all requirements of the RFP, to advise the SAA immediately of any apparent discrepancies or errors in the RFP, and to request clarification if in doubt concerning the meaning or intent of anything in the RFP.

12. Confidentiality

Information pertaining to the SAA obtained by the Proponent, its employees and agents as a result of its participation in relation to this RFP, is proprietary and confidential. The data provided in this RFP is for the sole purpose of assisting the Proponent in the preparation of a Proposal to the SAA. The data must not be copied or disclosed by the Proponent except for the purpose of responding to the RFP.

13. Conflict of Interest

Proposals will not be evaluated if the Proponent's current or past corporate or other interests are in the opinion of the SAA, deemed to be a conflict of interest in connection with this RFP or the activities or mandate of the SAA. The SAA reserves the right to disqualify and reject a Proposal in whole or in part where the Proponent or directors, officers, shareholders or any other person associated with the Proponent has a claim or has initiated a claim or legal proceeding against the SAA or who the SAA has a claim or has instituted a legal proceeding with respect to any previous contracts, tenders or business transactions.

PART 2: FORM OF PROPOSAL

1. Organizational Structure

Management

- 1.1 Provide an Executive Summary of your Proposal and highlight key features.
- 1.2 Describe your Company's management philosophy.
- 1.3 List the key management individuals who will be charged with responsibilities for day to day operations in relations to this RFP.
- 1.4 List the description of the responsibilities and duties of each team member of your organization as envisioned for this Contract.

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(Attached additional pages if required)

- 1.5 Provide an organizational chart and the management team information that utilizes the company structure, management, staffing and support structure for the proposed contract.

Dedicated Support Team / Product Knowledge Support

- 1.6 Please identify the individuals who will work with the SAA. In reference to this team, please respond to the following:
 - 1.6.1 What areas of product or services expertise does the team represent?
 - 1.6.2 Where is each of the team members based?
 - 1.6.3 What hours are the team members available, including emergency services and how can they be reached?
- 1.7 Disclose the following affiliations and associations within your Proposal referencing this section:
 - 1.7.1 Any affiliation whether legal or financial, with any other entity which is in the business of providing the same type of goods or services which is the subject of this RFP;
 - 1.7.2 Whether the Proponent is competing for this RFP with any entity with which it is legally or financially associated;
 - 1.7.3 Proponent employees and consultants that would work on the proposed project and their family members that are employees or consultants of the SAA;
 - 1.7.4 Any current or past corporate or other interest which may give rise to a conflict of interest (either actual or potential) in connection with the goods or services and the SAA.
- 1.8 List three (3) contracts completed for the supply of Wheel Loaders in the last two years. Indicate scope of work, installation location, type of equipment supplied, value of work, and client/owner references for the Contract with contact telephone number. Highlight any specific experiences, support and expertise provided to these airport(s).

Scope of Work Installation Location	Length of Contract	Contract Value	Client/owner Reference & Telephone Number

(Add additional pages as required)

2. Customer Service and Quality Control

Customer Satisfaction and Quality Programs

- 2.1 Do you have a customer satisfaction program? Please explain.
- 2.2 Do you have a company quality program? Please provide details.
- 2.3 Describe in detail what these programs offer or ensure?

Continuous Improvement

- 2.4 Do you have a continuous improvement process? (ie: identifying and implementing best practices). Please provide details as to how you would implement this at an airport.
- 2.5 Provide details of your manufacturing quality assurance program including reporting requirements to ensure compliance.
- 2.6 Provide details of your Customer Service programs in response to vehicle maintenance and repair.

(Attach additional pages as required)

3. Technological Specifications

- 3.1 Provide details of technical specifications for the Wheel Loader in your Proposal. Please indicate requirements that meet or exceed the specification list in Schedule 1.

(Attach additional pages as required)

4. Pricing

- 4.1 Provide detail pricing for your Proposal in Canadian dollars. Delivery and all applicable taxes and fees are to be shown as separate items and these will be calculated as extra after the cost of the Wheel Loader.
- 4.2 Provide on a separate/additional spreadsheet a list of all optional items available for the Wheel Loader being offered complete with cost breakdown for each item. Applicable P.S.T and G.S.T Extra. *(Attach additional pages as required)*

5. Execution

This Proposal has been executed on behalf of the Proponent by its duly authorized officers.

Dated this _____ day of _____, 2020 at _____ in the Province/State of _____.

For the Proponent:

(Print Name)

(Signature)

(Print Title)

(Date)

(Print Name)

(Signature)

(Print Title)

(Date)

Corporate Seal {if applicable}

1.0	WHEEL LOADER REQUIREMENTS	
1.1	The Saskatoon Airport Authority (the "SAA") has a requirement for one (1) four-wheel drive wheel loader with a minimum operating weight of 5443 Kg (12,000 lbs) to maximum operating weight of 6577 Kg (14,500 lbs)	<p>Comply Yes_____ No_____</p> <p>Make and Model _____</p>
2.0	GENERAL REQUIREMENT	
2.1	<u>Standard Requirement</u> - The unit supplied under this specification shall be the manufacturer's latest model standard commercial product.	<p>Comply Yes_____ No_____</p> <p>Actual _____</p>
2.2	<u>Proven Product</u> - The wheel loader to be supplied under the following specifications shall be a proven product. Prototypes or models offered that have not been in service for at least 5 years will not be considered acceptable. The wheel loader offered shall have successful in-service histories, or verifiable evidence of successful acceptance testing in Canada. Supplier must provide confirmation of proven product, including airport, contact, telephone number of contact, and date unit(s) went into service of <u>exact model quoted</u> .	<p>Comply Yes_____ No_____</p>

2.3	<p><u>Overview</u> - The unit supplied must be a product designed and manufactured specifically for this purpose and shall be designed to operate on paved or gravel surfaces at the airport.</p> <p>The wheel loader shall be complete with all accessories customarily furnished and installed on this type of unit, whether specified or not, to enable the wheel loader to function reliably and efficiently under all conditions of service.</p>	Comply Yes _____ No _____
2.4	<p><u>Operating Conditions</u> - The unit supplied must be capable of operating without adjustment, and without failure of components when operated continuously for a period of 24 hours.</p>	Comply Yes _____ No _____
2.5	<p><u>Mandatory items</u> - Items noted in the specification as "shall, must, to be, minimum, and maximum are mandatory requirements". No deviations will be accepted for these items.</p>	Comply Yes _____ No _____
2.6	<p><u>Responses</u> - Any responses noted as approximately will be interpreted as "ACTUAL". Any non-completed areas will be interpreted as non-compliant.</p>	Comply Yes _____ No _____
3.0	REGULATIONS AND STANDARDS	
3.1	<p><u>General</u> - When airport standards, specifications, or purchase regulations are referenced they refer to latest editions, and are available on request.</p>	Comply Yes _____ No _____
3.2	<p>The overall design and construction of the entire wheel loader shall comply with all applicable Canadian Federal and Provincial rules and regulations for off highway use.</p>	Comply Yes _____ No _____
4.0	DELIVERY	
4.1	<p><u>Pre-delivery</u> - A pre-delivery service shall be completed by the unit supplier prior to delivery. The unit is to be lubricated and serviced with all associated products suitable for the climatic conditions in the Saskatoon area.</p>	Comply Yes _____ No _____

SCHEDULE 1 – REQUIREMENTS AND SPECIFICATIONS COMPLIANCE CHECKLIST

4.2	<p><u>Inspection</u> - The successful supplier is responsible to ensure that the unit is thoroughly tested, inspected, and that all deviations are corrected prior to delivery. The SAA reserves the right to inspect the unit at any stage of production and have all deviations corrected upon request. A final inspection shall be completed by the SAA at time of delivery. The unit shall be delivered with no greater than thirty (30) hours of engine operation.</p>	<p>Comply Yes____ No____</p>
4.3	<p>On-site training for operators and mechanic to be conducted at the time of equipment delivery to the Saskatoon John G. Diefenbaker International Airport.</p>	<p>Comply Yes____ No____</p>
4.4	<p>The price quoted shall include all shipping costs to the SAA including the estimate of any/all on-site training to be conducted at the time of delivery to the Saskatoon John G. Diefenbaker International Airport. All taxes applicable extra.</p>	<p>Comply Yes____ No____</p>
4.5	<p>Delivery Date - The wheel loader shall be delivered to the SAA at the Saskatoon John G. Diefenbaker International Airport no later than July 31, 2020. It is anticipated that an award of contract will be made no later than March 31, 2020</p>	<p>Comply Yes____ No____ Actual_____</p>
5.0	<p>WARRANTY AND MANUALS</p>	
5.1	<p><u>Manuals</u> - Provide a minimum of one (1) hard copy and one (1) softcopy (e-copy), in English, of each set of manuals requested below, for the unit delivered. The contract will not be considered complete until all manuals noted are received.</p>	<p>Comply Yes____ No____</p>
5.2	<p><u>Instruction Manuals</u> - Provide one (1) hard copy and one (1) soft copy (e-copy) of the manufacturer's overall instruction manual. The instruction manual must indicate the proper operation and maintenance procedures for all component installations.</p>	<p>Comply Yes____ No____</p>

SCHEDULE 1 – REQUIREMENTS AND SPECIFICATIONS COMPLIANCE CHECKLIST

5.3	<u>Parts Manual</u> - Provide one (1) hard copy and one (1) soft copy (e-copy) of the parts manual. The parts manual must include assembly drawings of all components.	Comply Yes____ No____
5.4	<u>Warranty Period</u> - The wheel loader manufacturer or supplier shall provide an unconditional warranty on all components and systems including but not limited to the following: engine(s), axles, gearboxes, differentials, electrical, hydraulic, and air control systems. This warranty shall include repair labour and parts. The warranty period shall be for a minimum of two (2) years for the engine(s) and for all other components. The warranty shall take effect on the date of delivery to the consignee.	Comply Yes____ No____
5.5	<u>Warranty Claims</u> - If requested warranty repairs have not commenced within a 24 hour period, SAA reserves the right to complete repairs and bill the vehicle dealer for the repair parts and labour in accordance with their standard repair time and rate.	Comply Yes____ No____
5.6	<u>Warranty Coverage</u> - The warranty noted shall include all failures attributed to lack of, or improper installation of all fail-safe mechanisms, i.e. engine shutdown devices, relief valves, other system protection devices and shutdowns etc.	Comply Yes____ No____
5.7	<u>Extended Warranty</u> - As an option, do you offer extended warranty over 2 years and if yes, what is the cost. Explain coverages or attach details to the pricing section in Part 2: Form Of Proposal.	Comply Yes____ No____ \$ _____
5.8	<u>Warranty Contact</u> - Specify the person responsible for any required warranty repairs, and provide the name and telephone number of the person to be contacted should warranty repairs be required.	Comply Yes____ No____ Contact _____
	WHEEL LOADER SPECIFICATIONS	
6.0	CAPACITIES	
6.1	The wheel loader shall have a minimum horsepower of 67 hp and a maximum horsepower of 74 hp Indicate type of exhaust after treatment	Comply Yes____ No____ Actual hp _____ After treatment type _____ _____

SCHEDULE 1 – REQUIREMENTS AND SPECIFICATIONS COMPLIANCE CHECKLIST

6.2	The wheel loader shall have a commonly available four stroke liquid cooled diesel engine of current manufacture.	<p>Comply Yes____ No____</p> <p>Make and Model</p> <p>_____</p>
6.3	The wheel loader shall have a rated operating load (@50% of full turn tipping load) no less than 1542 kg (3400 lbs)	<p>Comply Yes____ No____</p> <p>Actual_____</p>
6.4	The wheel loader shall have a maximum ground speed of no less than 30 kph (22 mph)	<p>Comply Yes____ No____</p> <p>Actual_____</p>
6.5	The loader shall have a tilt cylinder break out force no less than 3755 kg (8280 lbs)	<p>Comply Yes____ No____</p> <p>Actual_____</p>

6.6	Component Certification – All components of the wheel loader shall be new parts, not refurbished or used. Upon request, the manufacturer or supplier shall obtain component certification from the component manufacturer, for any items installed on the wheel loader. All certificates shall indicate the model of the machine on which the component will be installed and the characteristics for which the component was designed.	Comply Yes____ No____
7.0	FUEL SYSTEM	
7.1	A fuel filter/water separator, complete with a transparent bowl, and replaceable element shall be installed in the fuel system between the fuel supply tank and diesel engine.	Comply Yes____ No____
7.2	The fuel filter/water separator shall be approved for this application by the engine manufacturer.	Comply Yes____ No____
7.3	Provide a minimum capacity of 75 litres (20 US gallon) fuel tank	Comply Yes____ No____ Actual_____
7.4	The filler spout(s) shall be easily accessible and well protected from slush, snow, and dirt accumulation.	Comply Yes____ No____

8.0	WEIGHTS & DIMENSIONS	
8.1	The wheel loader shall have an operating weight within: Minimum 5443 kg (12,000 lbs) to Maximum 6350 kg (14,000 lbs)	Comply Yes____ No____ Actual_____
8.2	The wheelbase of the wheel loader shall be no longer than 223.5 cm (88 inches).	Comply Yes____ No____ Actual_____
8.3	The overall length of the wheel loader including bucket on ground shall be no longer than 594 cm (234 inches).	Comply Yes____ No____ Actual_____
8.4	The overall width of the wheel loader EXCLUDING bucket or attachment shall be no more than 198 cm (78 inches)	Comply Yes____ No____ Actual_____
8.5	The overall height of the wheel loader to top of ROP cab EXCLUDING beacon or radio antennae shall be no more than 290 cm (114 inches).	Comply Yes____ No____ Actual_____

8.6	The wheel loader shall have an outside turn radius not to exceed 457 cm (15 feet).	Comply Yes____ No____ Actual_____
8.7	The wheel loader shall have a lift height (ground to bucket pin) of no less than 317.5 cm (125 inches)	Comply Yes____ No____ Actual_____
9.0	COOLING SYSTEM	
9.1	The radiator on the diesel engine shall have either a coolant reservoir or a sight glass installed in the top header tank.	Comply Yes____ No____
9.2	There shall be safe access provided for coolant level checks on the diesel engine	Comply Yes____ No____
9.3	The cooling system shall be supplied with coolant effective to minimum -40C.	Comply Yes____ No____
9.4	All hoses in the cooling system of the diesel engine shall be of silicone type or pliable material to withstand extreme heat or cold temperatures.	Comply Yes____ No____
9.5	An electrical engine coolant heater of appropriate size shall be installed on the wheel loader diesel engine.	Comply Yes____ No____

10.0	INTAKE AND EXHAUST SYSTEM	
10.1	The diesel engine shall have a dry type air filtration with secondary (safety) air filters installed.	Comply Yes____ No____
10.2	The muffler and tailpipes shall be located as far away from the cab as possible and position with the least obstruction to cab rear window view	Comply Yes____ No____
10.3	The exhaust system shall be of a size that avoids undue backpressure and shall be located and constructed to exit the top of the machine minimizing the chance of exhaust gases into the cab, under all conditions of operation.	Comply Yes____ No____
10.4	The exhaust system shall be constructed of high-grade rust resistant materials.	Comply Yes____ No____
	CHASSIS SYSTEM	
11.0	STEERING/ARTICULATION	
11.1	The chassis shall be equipped with hydraulic power-assisted steering/articulation.	Comply Yes____ No____
12.0	SUSPENSION	
12.1	Cab suspension shall have ride control capability	Comply Yes____ No____

SCHEDULE 1 – REQUIREMENTS AND SPECIFICATIONS COMPLIANCE CHECKLIST

13.0	13.0 TRANSMISSION	
13.1	The wheel loader shall have a Hydrostatic type transmission with low and high forward ranges and a reverse gear.	Comply Yes____ No____
13.2	The wheel loader shall be provided with an inching pedal for precise transmission control	Comply Yes____ No____
13.3	The wheel loader shall be provided with an automatic safety device to ensure that the vehicle engine can only be started in neutral range and the direction/range selector cannot be inadvertently shifted into reverse. There shall be an indicator to display direction of travel.	Comply Yes____ No____
13.4	The wheel loader shall have a transmission oil cooler, transmission oil filter and a dash mounted transmission oil temperature gauge and a high temperature warning light or warning system.	Comply Yes____ No____
14.0	TRANSFER CASE	
14.1	The wheel loader shall have a transfer case that will allow four (4)-wheel drive operation with control and engagement indicators in the cab.	Comply Yes____ No____

SCHEDULE 1 – REQUIREMENTS AND SPECIFICATIONS COMPLIANCE CHECKLIST

15.0	AXLES	
15.1	Frame/axle oscillation shall be no less than 10 degrees	Comply Yes____ No____ Actual_____
15.2	Front and rear axles shall have planetary wheel hubs.	Comply Yes____ No____
15.3	The front and rear axles shall have a driver-controlled differential locking mechanism with control and engagement indicators in the cab.	Comply Yes____ No____
16.0	BRAKES	
16.1	The wheel loader shall have adequate brakes to safely stop machine while carrying maximum load at maximum speed.	Comply Yes____ No____
16.2	The wheel loader brake system shall be hydraulic actuated and self-adjusting	Comply Yes____ No____
16.3	The wheel loader parking brake system shall be one of the following: -Parking brake spring applied and hydraulic release (MUST have provision to manually release if machine becomes disabled) -Mechanical applied parking brake preferably with self-adjust feature	Comply Yes____ No____ Type_____

17.0	TIRES AND WHEELS	
17.1	All tire and wheel assemblies shall have a minimum rating of the maximum axle loading. The tires shall have an aggressive tread designed to provide maximum traction on all types of surfaces, including sand, mud, snow, ice, and hard surfaces, wet or dry.	Comply Yes____ No____
17.2	Tires shall be on/off road type, type tubeless radials with capability to accept ballast fluid if installed.	Comply Yes____ No____ Actual size/ type_____
17.3	Supply one spare tire and rim of the same size and type as installed on the wheel loader.	Comply Yes____ No____ Actual size/ type_____
17.4	All five (5) tires and wheels shall be identical.	Comply Yes____ No____
18.0	TOWING/HITCH	
18.1	Two (2) heavy duty towing hooks or anchor locations shall be provided on the rear of the wheel loader to facilitate towing loader with tow cable. In addition, a hitch pin must be mounted at rear of wheel loader for purposes of towing or pulling other equipment or vehicles. Hooks, anchors and hitch pin assembly shall be of sufficient strength for recovery of the fully laden vehicle.	Comply Yes____ No____
	BODY SYSTEMS	
19.0	BODYWORK	
19.1	The wheel loader shall provide easy access to all major components for maintenance	Comply Yes____ No____

SCHEDULE 1 – REQUIREMENTS AND SPECIFICATIONS COMPLIANCE CHECKLIST

19.2	Cab access handles to be painted steel, aluminum, or plastic and shall be installed at convenient locations to facilitate safe entry and exit from the vehicle.	Comply Yes____ No____
19.3	Provide mud flaps behind all tires. They shall be installed as to prevent them from contacting the tire.	Comply Yes____ No____
20.0	CAB	
20.1	Fully insulated, metal cab equipped with maximum capacity fresh air intake heating system and defrosting system, with air intake protected from the ingress of rain, snow, engine or fuel vapours.	Comply Yes____ No____
20.2	The cab heating and defrosting systems shall be capable of maintaining an interior temperature of 20 degrees Celsius (68 degrees Fahrenheit) with an outside temperature of minus 40 degrees Celsius (-40 degrees Fahrenheit).	Comply Yes____ No____
20.3	The cab shall have the appropriate number of air vents to allow for sufficient air exchange.	Comply Yes____ No____
20.4	The heater/defroster shall have a minimum of two (2) outlets for the front windshield and one (1) outlet for each of the side windows.	Comply Yes____ No____
20.5	The wheel loader cab shall have at a minimum, a two (2) speed electrical fan mounted so as to assist with the defrosting/defogging of the cab windows or a heated window system.	Comply Yes____ No____
20.6	The wheel loader shall be equipped with air conditioning capable of maintaining a cab interior temperature of plus 20 degrees Celsius when outside temperature is plus 40 degrees Celsius (104 degrees Fahrenheit)	Comply Yes____ No____
20.7	The cab windows, front, side and rear shall be the maximum size and number available so as to provide the best possible visibility for the operator.	Comply Yes____ No____
20.8	The front and rear windshields shall meet industry safety standards and shall be tinted. An adjustable sun visor for front windshield will also be provided inside cab.	Comply Yes____ No____

SCHEDULE 1 – REQUIREMENTS AND SPECIFICATIONS COMPLIANCE CHECKLIST

20.9	A sound proof insulation package shall be fitted to provide the lowest possible interior sound level. Interior sound level shall not exceed 83 dB(A) when measured in accordance with SAE J336.	Comply Yes____ No____ Actual_____
20.10	The driver’s seat shall be a cloth air ride suspension seat. Seat belt approved by industry and safety standards must be provided.	Comply Yes____ No____
20.11	The wheel loader driver seat shall have operator arm rests on both sides of seat or A left arm rest on seat and a panel mounted right arm rest near the joystick hydraulic control	Comply Yes____ No____ Actual_____
20.12	The steering column shall be telescoping and have adjustable tilt.	Comply Yes____ No____
20.13	Provide dual mirrors, of appropriate size that are electrically heated and remotely adjustable from within the cab. Convex mirrors may be mounted below these mirrors. Mirrors are not to excessively block operators view while sitting in cab.	Comply Yes____ No____
20.14	The wheel loader front and rear windshields shall be equipped with a two (2) speed electrical windshield wiper with intermittent control.	Comply Yes____ No____ Actual_____
20.15	The wheel loader front and rear windshield wipers shall have windshield washers.	Comply Yes____ No____ Actual_____
20.16	Three (3) fused power ignition powered supply sources shall be provided in the cab for the installation of communication radios.	Comply Yes____ No____ Actual_____

SCHEDULE 1 – REQUIREMENTS AND SPECIFICATIONS COMPLIANCE CHECKLIST

20.17	The cab shall have skid resistant flooring that is easy to clean and does not retain moisture or chemicals which may cause corrosion.	Comply Yes____ No____
21.0	ELECTRICAL	
21.1	The wheel loader shall be equipped with a 12-volt negative ground electrical and starting system.	Comply Yes____ No____ Actual_____
21.2	The wheel loader shall be equipped with a battery isolation switch to completely isolate the batteries from the electrical system. The isolation switch shall be installed in a convenient location and able to withstand moisture and other contamination.	Comply Yes____ No____
21.3	Twelve (12) volt battery(s) with appropriate CCA shall be provided. Only maintenance free batteries are acceptable.	Comply Yes____ No____ Actual CCA and Amount of Batteries _____

SCHEDULE 1 – REQUIREMENTS AND SPECIFICATIONS COMPLIANCE CHECKLIST

21.4	A commonly available alternator shall be installed. The alternator minimum output current rating shall suffice all electrical accessory loads. The alternator connections shall be effectively protected from ingress of water and other contaminants.	Comply Yes ____ No ____ Make and Model _____
21.5	All external wiring shall be protected inside loom and well secured to prevent vibration or other damage to wiring harness elements. All wiring harness connections shall be waterproof. Careful attention will be given to workmanship and detail.	Comply Yes ____ No ____
21.6	A backup light and audible backup alarm of minimum 97 decibel rating shall be installed so as to activate when the vehicle is in reverse gear.	Comply Yes ____ No ____
21.7	All wiring harness conductors shall be colour coded, and/or number coded every six (6) inches of length. Marking and indexing methods shall be permanent in nature. Circuit identification markers shall be attached to each end of a conductor (supplier to provide wiring schematics in parts or service manuals).	Comply Yes ____ No ____
21.8	The wiring shall comply with SAE recommended practice for vehicles and shall include cables and harness coverings that are resistant to high temperatures, flames, oil, and abrasion. All external wiring shall be protected and well secured to prevent vibration or other damage to wiring harness elements. All wiring harness connections shall be waterproof.	Comply Yes ____ No ____

21.9	All electrical circuits shall be adequately protected from overload with easily accessible circuit breakers and fuses.	Comply Yes____ No____
22.0	INSTRUMENTS AND CONTROLS	
22.1	The minimum number of instruments, warning lights, and controls consistent with the safe and efficient operation of the wheel loader shall be provided. All chassis instruments and warning lights shall be grouped together on a panel in front of the driver. All instruments and controls shall be illuminated and identified.	Comply Yes____ No____
22.2	The following instruments or warning lights shall be provided in the cab as a minimum: Speedometer/odometer Engine/vehicle hour meter Voltmeter Engine tachometer	Comply Yes____ No____
	Engine hour meter Engine oil pressure gauge Engine water temperature gauge Engine air filter restriction gauge	Comply Yes____ No____
	Brake system warning lamp and buzzer Transmission oil temperature gauge Fuel level gauge Parking brake indicator lamp	Comply Yes____ No____
22.3	The wheel loader shall have a horn either controlled at steering wheel or push button convenient to operator	Comply Yes____ No____

23.0	LIGHTING	
23.1	The wheel loader shall comply with industry standards in respect to exterior lighting. Two (2) head lamps and work lamps mounted at front of machine and two (2) rear work lights on separate switch mounted near top of cab.	Comply Yes_____ No_____
23.2	A high intensity amber double flash strobe light, shall be installed on the cab roof of the wheel loader.	Comply Yes_____ No_____
23.3	The wheel loader shall be equipped with rear brake lights to illuminate when brakes are applied, and back up lights with audible alarm that will activate when machine is travelling in a reverse direction. Alarm must be loud enough to be heard over engine running at full load and high idle conditions.	Comply Yes_____ No_____
23.4	The cab shall be fitted with interior dome lights capable of providing sufficient illumination for reading.	Comply Yes_____ No_____

SCHEDULE 1 – REQUIREMENTS AND SPECIFICATIONS COMPLIANCE CHECKLIST

24.0	PAINT AND FINISH	
24.1	The chassis frame and undercarriage shall be primed and painted black or yellow to the highest quality industrial standard.	Comply Yes____ No____ Actual_____
24.2	The wheel loader body shall be prepared and painted to the highest quality industrial standard. The color shall be school bus yellow or the equivalent.	Comply Yes____ No____ Actual_____
	FRONT MOUNT LOADER BOOM	
25.0	ATTACHMENT SYSTEM AND ATTACHMENTS	
25.1	The wheel loader boom shall be equipped with a “quick attach plate” system similar to those used on skid steers. Buckets and other front mount accessories must be able to be attached and removed by operator from within cab using electric over hydraulic controls.	Comply Yes____ No____
25.2	A bucket with a replaceable cutting edge is to be provided with the wheel loader. This bucket is to be in accordance within the operating capacities and weight of the wheel loader.	Comply Yes____ No____ Actual Size_____
25.3	OPTIONAL 4 IN 1 Plow Blade attachment (Reactor or similar model) 2.743 Metres (9 feet) to 3.942 Metres (13 feet) Specify additional cost	Available Yes____ No____ Make_____ Model_____ Size_____ Cost_____

26.0	HYDRAULICS	
26.1	The wheel loader shall be equipped with boom suspension/ride control. Indicate type whether speed or gear sensitive or stationary.	Comply Yes____ No____ Actual_____
26.2	The wheel loader shall have a 3 rd function set of auxiliary couplers mounted at front of machine and a detent type lever or control inside cab, so an accessory with a hydraulic motor could be used.	Comply Yes____ No____
26.3	Indicate if 3 rd function uses a case drain or if this may be an optional equipment available.	Comply Yes____ No____ Optional Yes____ No____
26.4	The wheel loader boom hydraulics shall have a "Float" position or function	Comply Yes____ No____
26.5	The wheel loader hydraulic tilt function shall have a bucket level indicator or lever "kickout" feature when bucket is leveled.	Comply Yes____ No____ Indicate type _____
26.6	The Hydraulic tank shall have an indicator or dipstick that is easily accessible to check fluid level. All filters should be mounted in an accessible location.	Comply Yes____ No____

27.0	DRIVE SHAFTS	
27.1	The wheel loader drive shafts and U-joints shall be positioned in a manner that they can be easily serviced and routinely lubricated	Comply Yes_____ No_____

Submitted By: _____
(Company Name)

Date: _____

Print Name and Title: _____

Authorized Signature: _____

{Corporate Seal If Applicable}