

FORM N: DETAILED SPECIFICATIONS 25047

SUPPLY AND DELIVERY OF A SPECIALIZED UTILITY VEHICLE

1. INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

- 1.1 All items in these specifications should be answered indicating compliance or non-compliance.
- 1.2 **Bidders shall state “yes” for compliance or state “deviation”** or give a reply where requested to do so. Deviations and/or equivalents shall be clearly stated and fully detailed. Deviations and/or equivalents will be considered subject to evaluation. In every instance where a brand name or design specifications is used, the City will also consider deviations and/or equivalents.
- 1.3 Lengthy explanations of deviations may be included in a separate document and must reference the appropriate Detailed Specification.
- 1.4 Each Bidder is required to fill in every blank. Failure to do so may be used as a basis for rejection of bid.
- 1.5 It will be the responsibility of the Bidder to inform the City of any errors or omissions in these Detailed Specifications, for under this Contract, the Contractor shall be held responsible to ensure that the manufacturer will be responsible for the design, performance, reliability, and satisfactory operational function of the unit.

2. DESCRIPTION OF EQUIPMENT

- 2.1 These specifications describe **Specialized Utility Vehicle** and other equipment and features as specified herein.
- 2.2 The **Specialized Utility Vehicle** shall be a new **2025** model year or newer.
- 2.3 The **Specialized Utility Vehicle** and all other items/components shall be the manufacturer's latest model. The equipment shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the equipment and associated attachments in successful operation shall be furnished as though specifically mentioned in these specifications. The equipment and associated attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.
- 2.4 The ratings specified herein merely state the minimum values acceptable to the City, not implying that those values are sufficient for the design of the equipment being bid.

3. OTHER SPECIFICATIONS AND STANDARDS

- 3.1 All applicable SAE Standards form an integral part of the vehicle specifications and shall have precedence in any conflict concerning **Specialized Utility Vehicle** shall comply with the applicable regulations:

Standard - Specification/Regulation	Internet URL
Transport Canada, National Safety Mark, NSM:	http://www.tc.gc.ca/eng/acts-regulations/acts-road.htm
Manitoba Safety and Health Regulation, Parts 12, 16, 22:	http://web2.gov.mb.ca/laws/reg/current/217.06.pdf
Canadian Motor Vehicle Safety Standards C.M.V.S.S.:	http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,_c._1038/section-sched3.html
Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker:	http://web2.gov.mb.ca/laws/reg/index.php?act=h60
Canadian Standards Association CSA:	http://www.csagroup.org
Under Writers of Canada U/L:	http://www.ulc.ca
Society of Automotive Engineers SAE:	http://www.sae.org

City of Winnipeg Lighting Visibility Standard: <http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf>

Manitoba Building Code: https://web2.gov.mb.ca/laws/regs/current/_pdf-regs.php?reg=31/2011

- 3.2 Where applicable, the completed unit shall include a Manitoba Government Inspection with Safety Sticker.
- 3.3 Where applicable, the manufacturer/installer shall affix their National Safety Mark (NSM) certification sticker on each unit.

State NSM number: _____

4. FUEL

- 4.1 Where applicable, the equipment shall be fully fuelled upon delivery (no exceptions).

5. REFERENCES

- 5.1 Provide five (5) references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

6. MAKE & MODEL

- 6.1 State year, make and model being bid:

Vehicle / Equipment

Make: _____

Model: _____

Model Year: _____

7. PERFORMANCE RELIABILITY

- 7.1 The responsibility for the design of the **Specialized Utility Vehicle** its performance and reliability shall rest upon the Contractor.
- 7.2 The term “repeated failures” as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the vehicle inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, of assembly. Minor items or ordinary service adjustments are not included or considered under the scope of “repeated failures”, as well as other factors, such as operational damage due to accidents, misuse or lack of proper maintenance, service, and lubrication attention by not following the manufacturer’s preventative maintenance schedule.
- 7.3 Where the **Specialized Utility Vehicle** develops “repeated failures” in service, the Contractor shall make any necessary engineering changes, repairs, alterations, or modifications to guarantee reliability of performance.
- 7.4 The equipment shall be capable of consistent top performance in City of Winnipeg Environment. **Note: The City of Winnipeg has four seasons with ambient temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C).**

8. SERVICE FACILITY

- 8.1 For warranty repairs, the Bidder shall have an authorized service facility. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type of equipment being offered. Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator or City Representative.

9. QUALIFICATIONS OF MANUFACTURER AND CONTRACTOR

- 9.1 The manufacturer of the **Specialized Utility Vehicle** shall have five (5) years continuous experience manufacturing **Specialized Utility Vehicles**
- 9.2 The manufacturer shall have in effect a documented quality control program ensuring that the quality of materials and workmanship, including welding, conforms to the best standards and engineering practice of the industry.
- 9.3 The Contractor shall have five (5) years continuous experience servicing, repairing, and maintaining **Specialized Utility Vehicles** of the type being offered

10. WEIGHT DISTRIBUTION

- 10.1 Where applicable, the completed vehicle shall not exceed the City of Winnipeg's limits gross vehicle weight, axle, and tire loads with the unit (including the chassis) fully fuelled and operational with two (2) operators and including a full payload of cut trees.

Note:

The City of Winnipeg and the Province of Manitoba limits the gross vehicle weight and axle and tire loads to

- **Front axle (steering axle) – 7300 kg (16,094 lbs.)**
- **Rear axle (single axle) – 9100 kg (20,062 lbs.)**
- **Tire load – 9 kilograms for each millimetre width of tire (approx. 500 lbs. per inch of tire width)**

11. WEIGH SCALE TICKET

- 11.1 Where applicable, the Contractor shall provide a certified weigh scale ticket upon delivery of the completed unit. The Scale Ticket shall include front and rear axle weights fully fuelled and operational including two (2) operators.

12. SPECIFICATIONS

Make, Model and Model Year

- 12.1 Make **State:** make: _____
- 12.2 Model **State:** model: _____
- 12.3 Model Year Model Year 2025 or newer
State: model year: _____

Engine

- 12.4 Engine
- Diesel rated at 60-65 HP
 - Emissions Tier IV Diesel Interim or Final
 - Cold engine starting aided by glow plugs

Alternator

- 12.5 Capacity Approximately 120 amps
State: amps: _____

Battery

- 12.6 Capacity Heavy Duty
Approximately 850 CCA
State: CCA: _____

Front Loader

- 12.7 Front Loader
- Lift arm with double acting hydraulic cylinders
 - Capable of accepting quick-attach attachments
 - Loader Rated Operating Capacity of approximately 1500 lbs.
 - Loader functions controlled by a single pilot-operated hydraulic joystick
 - Lift-arm "float" feature provided and activated by the hydraulic joystick

Performance

- 12.8 Rated Operating Capacity (ROC) Approximately 1500 lbs.
State: ROC: _____
- 12.9 Operating Weight Approximately 5600 lbs.
State: Operating weight: _____
- 12.10 Travel Speeds
- High - Variable from 0 to 17 mph.
 - Low - Variable from 0 to 8 mph.
 - Reverse - Variable from 0 to 8 mph.

Operator Controls

- 12.11 Controls
- Selectable Joystick Control
 - Direction controlled
 - Speed controlled

Rear Cargo Box

12.12	Rear Cargo Box	Cargo box load capacity of 2000 lbs. Box sides are bolt-on and can be removed to make a flat-bed A tailgate is provided which includes a quick-latch system, and is capable of supporting at least 300 lbs. of load in the open position Stake pockets to be provided on the sides and front of the cargo box	_____
12.13	Hydraulic Dump	<ul style="list-style-type: none"> • Activated by a cab mounted control • Two (2) hydraulic cylinders 	_____
12.14	Cargo Box Liner	Spray in box liner	_____
12.15	Cargo Box Support Device	Required to mechanically support the box if raised for service work	_____

Drive System

12.16	Drivetrain	Full-time four-wheel drive system	_____
12.17	Differentials Front and Rear	Limited slip differentials for both axles	_____
12.18	Hydrostatic Traction Control	<ul style="list-style-type: none"> • Automatically manages torque split at each wheel • On/off switch located in cab 	_____
12.19	Transmission	Hydrostatic	_____
12.20	Engine and Travel Speed	Equipped with separate controls for engine speed and travel speed	_____
12.21	Drive Speed	Controlled by a single pedal	_____
12.22	Engine RPM Control	Controlled by hand lever	_____
12.23	Neutral Start	Neutral Start which requires machine be in the "Park" position (parking brake applied) before engine can be started	_____
12.24	Shift On-The-Fly	Ability to shift between travel speed ranges while moving	_____
12.25	Cruise Control	For constant working speed	_____
12.26	Crab Steering	4-wheel steering	_____

Cab

12.27	Cab Structure	<ul style="list-style-type: none">• 4-post design• ROPS and FOPS approved per SAE and ISO standards	_____
12.28	Cab Enclosure	Consists of two steel frame doors with windows complete with locking handles	_____
12.29	Seats	Forward facing—operator and passenger	_____
12.30	Seat Belts	<ul style="list-style-type: none">• Retractable seat belts for the operator and passenger• Incorporates a 3-point design which includes a shoulder restraint per SAE J2292	_____
12.31	Windows	<ul style="list-style-type: none">• Front and rear• Tempered safety glass	_____
12.32	Windshield Washer System with Wipers	Windshield washer system with dual-arm front windshield wipers	_____
12.33	12-Volt Power Outlet	For accessories provided in the cab	_____
12.34	Climate Control	<ul style="list-style-type: none">• Heating system with ventilation and defrosting capabilities• Air conditioning	_____
12.35	Beverage Holders	Beverage holders	_____
12.36	Radio	AM/FM Radio State: radio type: _____	_____

Brakes

12.37	Brakes Loading	<ul style="list-style-type: none">• Shared by all wheels• The machine automatically brings itself to a stop when the drive pedal is released	_____
12.38	Parking Brake	<ul style="list-style-type: none">• Parking brakes equipped in each axle. Drive controls automatically deactivate when the parking brake is applied• The parking brake to engage automatically when the engine is not running	_____

Diagnositics and Displays

12.39	Instrument Panel	<p>Gauges:</p> <ul style="list-style-type: none">• Engine temperature and fuel level <p>Digital display required to display the following:</p> <ul style="list-style-type: none">• Travel Speed• Engine RPM• Engine Hours• Job Hours (resettable) <p>Display to be back-lit when front lights are on</p> <p>Warning lights to indicate the following:</p> <ul style="list-style-type: none">• Low engine oil pressure• Low fuel level• Low battery voltage• High hydraulic temperature• High engine temperature. <p>An engine and hydraulic systems monitor will be provided to monitor vital machine conditions</p>	_____
12.40	Service Diagnostic Capabilities	<p>The systems monitor will also display a code when warning conditions are encountered, and store these codes for later access</p>	_____
Lights			
12.41	Lighting	<ul style="list-style-type: none">• Headlights• Turn signals• Tail lights• Brake lights• Hazards• Interior dome light <p>State: type of headlights – LED or Halogen</p>	_____
12.42	Safety Lighting	<ul style="list-style-type: none">• Whelen Responder LP (RDLPPAB) Amber/Blue DUO Permanent Mount (LED Mini Light bar)• Mounted on top of the cab driver's side• Wired through ignition• Lights shall be wired for separate amber and separate blue labelled independently "winter", "off", "summer".• The winter mode will turn on both blue and amber,• the summer will only turn on the amber lights	_____

12.43 Work Lights _____
• Four (4) LED work lights on the front which can be positioned independently of each other
• Two (2) LED work lights on the back which can be positioned independently of each other

Tires

12.44 Tires, 2 sets _____
One (1) set (mounted on their own rims) of:
• Standard duty
• Turf

One (1) spare on rim for each type

Note: Each unit to be delivered with turf tires installed.

Standard Duty Tire:

State: Size _____

Turf Tire:

State: Size _____

Hydraulics

12.45 Hydraulic Supply _____
“High Flow” approximately of 25-30 gpm
State:
Std. flow: _____
High flow: _____

12.46 Quick Hitch _____
Activation of quick-hitch provided by two over-center locking levers with wear

12.47 Hydraulic Connections _____
Supplied via hydraulic quick-couplers with a flush-face design

12.48 Hydraulic Pressure Release System _____
To relieve residual pressure trapped in the attachment hydraulics for safe attachment changes.

12.49 Primary Attachment Hydraulics _____
• Primary attachment hydraulics activated by switches integrated into the loader joystick
• Ability to lock into continuous flow (detent) in both forward and reverse directions

12.50 Rear Remote Hydraulics _____
Supplied via hydraulic quick-couplers with a flush-face design

Towing

- | | | | |
|-------|---------------------|---|-------|
| 12.51 | Towing Capacity | <ul style="list-style-type: none">• Capable of withstanding 500 lbs. of tongue load• Capable of pulling and stopping tow loads of 4,000 lbs. | _____ |
| 12.52 | Rear Receiver Hitch | A rear receiver hitch system capable of accepting a 2-inch receiver-style hitches with wiring harness for trailer (7 pin flat) | _____ |

Lubrication

- | | | | |
|-------|--------------|---|-------|
| 12.53 | Grease Zerks | <p>Due to operator safety requirements and convenience:</p> <ul style="list-style-type: none">• All manual grease zerks shall be accessible to the operator (Excluding driveline)• Hard to access and/or near a heat sources, a remote block with hydraulic lines shall be mounted to accommodate manual lubrication• Remote block to be fitted with hydraulic lines with an approximately maximum working pressure of 5000 psi using #4 JIC fittings | _____ |
|-------|--------------|---|-------|

Safety Equipment

- | | | | |
|-------|---------------------------|---|-------|
| 12.54 | Interlock Control System | <p>Automatically disables the:</p> <ul style="list-style-type: none">• Loader lift• Loader tilt• Attachment hydraulics• Drive control <p>and engages the parking brake when the operator exits the machine</p> | _____ |
| 12.55 | Automatic Engine Shutdown | <ul style="list-style-type: none">• The engine automatically shuts-down in the event vital conditions exceed acceptable limits | _____ |
| 12.56 | Battery Disconnect Switch | <ul style="list-style-type: none">• Connected to battery• Prevents low-draw accessories from draining battery in long-term storage• Protected from the elements• Lockable with a pad lock | _____ |
| 12.57 | Mirrors | <ul style="list-style-type: none">• Interior rear view• Exterior side• Provide full view for safe reverse operation | _____ |
| 12.58 | Fire Extinguisher | <ul style="list-style-type: none">• 2.5 lbs.• High volume ABC type• Securely mounted with quick release | _____ |

12.59 Slow Moving Vehicle Sign Mounted to rear of vehicle _____

Note: Exact location to be determined prior to delivery

12.60 Back-Up Alarm _____

- Approximately 97 – 112 dB
- Protected from damage

State: dB(A): _____

Licensing

12.61 License Plate Holder Mounted to front and rear of vehicle _____

according to Province of Manitoba legislation.

State: _____

WARRANTY:

13.1 All warranty information shall be detailed and **include all exclusions.** _____

The Contractor shall provide all published warranty information upon delivery of the equipment.

Bidder shall state all warranty information.

13.2 The warranty for the **Specialized Utility Vehicle** shall cover the complete equipment, and all parts thereof against any defects of workmanship, construction, and materials. _____

Any equipment that has become defective during said warranty period and has not proven to have been caused by negligence on the part of the user shall be repaired or replaced at no cost to the City.

The warranty shall be effective from the date the equipment is put into service by the City of Winnipeg

13.3 Basic Coverage **State:** Terms: _____

DELIVERY:

14.1 **Delivery Point:** _____

The complete unit shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.V.I.S. (if applicable) to the Winnipeg Fleet Management Agency (WFMA) 185 Tecumseh Street, Winnipeg MB.

14.2 **Delivery Time:** _____

Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days.

State: earliest delivery time from date of award: _____

14.3 **Delivery Contact:** _____

The Contractor shall contact the Contract Administrator prior to delivery of the equipment.

14.4 **P.D.I.:** _____

A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list

MANUALS:

15.1 **Manuals:** _____

The following manuals shall be supplied with the equipment when delivered:

Operator – Two (2) Copies

- One (1) copy shall be sent to the Equipment Operator Training Branch
- One (1) copy to be left with the equipment

Parts and Service

- One (1) complete set including preventative maintenance schedules

Note: CD or USB flash drive is preferred where available

PARTS/LABOUR PRICING:

16.1 Bidder to provide City of Winnipeg Parts Discount % Pricing from retail parts pricing. _____

State: percentage discount

16.2 Bidder to provide City of Winnipeg Labor Discount % Pricing from Retail shop labor rate. _____

State: percentage discount

FIRST SERVICE PREVENTATIVE MAINTENANCE KIT:

17.1 If applicable, to assure minimum downtime of the Equipment in future service, the Contractor must provide one (1) complete replacement set of new OEM filters for each unit purchased. The set of required filters shall include (if applicable to the equipment type) air, fuel, oil, transmission, cab and hydraulic, or otherwise all known necessary common replacement filters required for the first preventative maintenance servicing and first transmission service. _____

17.2 The Contractor must provide a list of factory recommended lubricants to be used with the equipment, as well as a complete cross reference guide for all warranty approved lubricants and filters that can be used during Preventative Maintenance servicing _____