FORM N: DETAILED SPECIFICATIONS 23016

RIDER FLOOR SCRUBBER

1. INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

1.1 All items in these specifications should be answered indicating compliance or non-compliance.

1.2 **Bidder 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 Proponent 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 Proponent 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 **Rider Floor Scrubber** and other equipment and features as specified herein.

2.2 The **Rider Floor Scrubber** shall be capable of cleaning hard warehouse surface floors and main interior walkways, in an industrial maintenance garage facility.

2.3 The **Rider Floor Scrubber** shall be a new **2023** model year or newer.

2.4 The **Rider Floor Scrubber** 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.

2.5 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 particular 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 minimum acceptable standards.

3.2 Where applicable, the **Rider Floor Scrubber** shall comply with the applicable regulations:

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:
https://www.gov.mb.ca/labour/safety/pdf/1_2016_wsh_ar_oc.pdf

Canadian Motor Vehicle Safety Standards C.M.V.S.S.
Motor Vehicle Safety Regulations (justice.gc.ca)

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/regs/index.php?act=h60

Canadian Standards Association, CSA:
http://www.csagroup.org/

Under Writers of Canada, U/L:
Underwriters Laboratories of Canada (ULC)

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

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:

Model Year: _____

Make: _____

Model: _____

7. PERFORMANCE RELIABILITY

7.1 The responsibility for the design of the **Rider Floor Scrubber,** 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 **Rider Floor Scrubber** develops “repeated failures” in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order 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 the purpose of 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 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

9. QUALIFICATIONS OF MANUFACTURER & CONTRACTOR

9.1 The manufacturer of the **Rider Floor Scrubber** shall have five (5) years continuous experience manufacturing **Rider Floor Scrubber.**

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 **Rider Floor Scrubber** of the type being offered.

10. SPECIFICATIONS

	Make and Model		
10.0	Equipment Make	**State:** make: _____	_____
10.1	Equipment Model	**State:** model: _____	_____
10.2	Equipment Model Year	**State:** model year: _____	_____
	Scrubbing System		
10.3	Brushes	Automatically turn on when scrub deck is lowered and machine is propelled in forward or reverse	_____
10.4	Brushes and Solution Flow	Turn off when machine is not moving, for floor protection and simplified usage	_____
10.5	Scrub Brush Pressure	Controlled via electronic current sensing offering three different levels of scrubbing power up to the rated maximum power of the scrub motors without risk of overload	_____
	Cylindrical Deck		
10.6	Scrub Path	Approximately 36-inch (1020 mm) cylindrical scrub path **State:** scrub path: _____	_____
10.7	Brush	• Cylindrical • Quantity two (2) • No tool brush change • Approximately 8 in. (205 mm) diameter	_____
10.8	Debris Tray	• Removable debris tray • Approximately 0.5 cu ft. (14 L) capacity **State:** debris tray capacity: _____	_____
10.9	Brush Down Force	Approximately up to 200 lbs. (91 kg) **State:** brush down force: _____	_____

Side Scrubbing Brush

10.10	Side Scrubbing Brush - Wet	• Provide edge cleaning • Automatically raised and lowered with scrub system activation/deactivation • May be deactivated separately via user interface • Use with or without solution system	_____
10.11	Cleaning Path	• Two (2) Cylindrical scrubbing brushes and the side scrubbing brush • Approximately 45 in. (1145 mm) **State:** cleaning path: _____	_____

Vacuum Recovery System

10.12	Motors	Dual vac motors 0.75 hp (0.56 kW)	_____
10.13	Water Lift	Approximately 65 in. (1650 mm) water-lift **State:** water lift: _____	_____
10.14	Protection	• Ball float vac motor inlet protection with automatic electric shutdown • Vacuum motors shall continue to operate for approximately 10 seconds after squeegee is lifted to clear the vac hose of excess dirty water	_____
10.15	Drip Loop	Drip loop in recovery hose to minimize dripping of water on the floor after shut-down	_____

Squeegee Design

10.16	Type and Size	• Parabolic squeegee • No tool squeegee change • Approximately 42 in. (1070 mm) long **State:** type and size: _____	_____
10.17	Roller Wheels	Roller wheels at squeegee tips to prevent snagging or damage	_____
10.18	Protection	• Break away protection to prevent squeegee tool damage • Squeegee automatically raises in reverse • Heavy duty rear squeegee guard	_____
10.19	Material	Squeegee blades constructed of Linatex or Dura-Track or equivalent **State:** material type: _____	_____

	Power System		
10.20	System	36 Volt power system	_____
10.21	Batteries	• Qty Six (6) • AGM 310 Ah • Approximately 3.0 hour run time **State:** Battery type and Ah: _____ Run time: _____	_____
10.22	Charger	On-board charger	_____
10.23	Protection	Equipped with a low voltage shutdown system to protect batteries	_____
10.24	Notification	Brushes automatically shut-off and battery gauge to notify operator that recharge is required once batteries reach maximum allowable state of discharge	_____
	Propulsion System		
10.25	System	AC brushless drive motor system for low maintenance and high reliability and efficiency	_____
10.26	Output	Approximately 1.6 hp (1.2 kW) peak power output	_____
10.27	Speed - Forward	• Variable operating speed • Approximately up to 6 mph (9.5 km/hr.)	_____
10.28	Gradeability – Working (Scrubbing)	At operating weight up to 4 deg (7.0%)	_____
10.29	Slip Reduction	• Single-button wheel-slip reduction control reduces drive wheel torque • Minimizes slip in lower traction conditions	_____
	Braking System		
10.30	Brakes	• Individual Propelling and Brake pedals • Automatic parking brake	_____
	Solution / Recovery Tanks		
10.31	Construction	Durable, light weight, corrosion-proof roto-molded polyethylene	_____
10.32	Solution Tank	• Approximately 50-gallon (190 L) capacity • Capable of handling solution up to 150 deg Fahrenheit (65 deg C) **State:** capacity: _____	_____

10.33	Recovery Tank	• Approximately 60-gallon (225 L) capacity • Adjustable flow drain cuffs on drain hose • Capable of tilting for ease of clean out • Removed without tools for machine maintenance **State:** capacity: _____	_____
10.34	Drain Hose	Recovery tank drain hose with a flexible end allowing an operator to meter water flow by means of pinching hose without the need for a separate valve that can plug	_____
10.35	Monitoring	• Recovery tank full monitoring • Solution tank empty monitoring • Indication on operator's interface	_____
	Solution System		
10.36	System	• End-user determines water and detergent ratio mixed in solution tank • Adjustable solution flow rate for different applications	_____
10.37	Settings	Integrated brush pressure and solution flow rate settings with override capability	_____
10.38	Flood Mode	Flood mode provides the ability to dispense water at maximum achievable rate for optimal double-scrubbing efficiency	_____
10.39	Solenoid Valve	Electric solenoid valve for precise on/off control and proportional metering	_____
10.40	Shut-Off	Automatic solution shut-off when stationary	_____
10.41	Protection	Externally removable in-line filter screen plus manual shut-off valve for solution tank allowing cleaning while tank is full, protecting the solution solenoid valve from contamination	_____
	User Interface		
10.42	Steering Wheel	Allows all scrubbing operations functions to be completed without taking hands off the steering wheel	_____
10.43	Seat - Deluxe	• Equipped with seat switch which prohibits machine operation when the seat is unoccupied • Adjustable • Arm rest • Seat belt	_____
10.44	Control Panel	Membrane control panel for machine control with LCD display	_____

10.45	Key	• Key switch turns machine on/off • Includes two (2) spare keys	_____
10.46	Horn	• Readily accessible driver-operated • Clearly labelled	_____
10.47	Indicators	• Hour meter • Battery state of charge indicator • Brush pressure setting indicator • Solution flow rate setting indicator • Solution tank level indicator • Recovery tank full indicator	_____
10.48	Scrub	Scrub on/off buttons	_____
10.49	Fault Detection	Integral fault detection and diagnostic codes for simplified service	_____
	Head Light		
10.50	Head Light	LED	_____
	Overhead Guard		
10.51	Overhead Guard	Overhead guard for operator protection	_____
	Bumper		
10.52	Front Bumper	Heavy duty	_____
	Wheels		
10.53	Wheels	Solid or equivalent, non-marking wheels to protect floor surfaces	_____
	Maintenance		
10.54	Maintenance Touch Points	Easy to identify touch points to ensure routine maintenance items are checked	_____
	Dimensions and Operating Characteristics		
10.55	Configuration	Front wheel steer/drive configuration	_____
10.56	Aisle Turn	Approximately 83 inches (2110 mm) **State:** aisle turn: _____	_____
10.57	Length	Approximately 74 in. (1880 mm) **State:** length: _____	_____
10.58	Width with Squeegee	Approximately 42 in. (1070 mm) **State:** width: _____	_____
10.59	Height with Overhead Guard	Approximately 82 in. (2080 mm) **State:** height: _____	_____

	Sound		
10.60	Sound	Less than 80 dB A (ISO 11201, ISO 4871, EN 60335-2-72) **State:** dB A: _____	_____
	Safety		
10.61	Beacon	• LED Beacon Class 2 • Mounted to achieve 360-degree visibility • Light to be guarded	_____
10.62	Slow Moving Vehicle Sign	Mounted	_____
10.63	Back-Up Alarm	• Approximately 90 - 112 dB • Protected from damage	_____
10.64	Fire Extinguisher	• 2.5 lbs. • High volume ABC type • Securely mounted with quick release	_____

11.0 **WARRANTY:**

11.1 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.

11.2 The warranty for the **Rider Floor Scrubber** 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

11.3 Basic Vehicle (Comprehensive) **State:** Terms: _____ _____

12.0 **DELIVERY:**

12.1 **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 WFMA 185 Tecumseh Street, Winnipeg MB.

12.2 **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: _____

12.3 **Delivery Contact:** _____

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

12.4 **P.D.I:** _____

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

13.0 **MANUALS:**

13.1 **Manuals:** _____

The following manuals shall be supplied with the units 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

14.0 **PARTS/LABOUR PRICING:**

14.1 Bidder to provide City of Winnipeg Parts Discount % Pricing from retail parts pricing. _____
State: percentage discount: _____

14.2 Bidder to provide City of Winnipeg Labor Discount % Pricing from retail shop labor rate. _____
State: percentage discount: _____

15.0 **FIRST SERVICE PREVENTATIVE MAINTENANCE KIT:**

15.1 If applicable, in order 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. _____

15.2 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. _____