SUBJECT: Approval to purchase a Tennant M-M30 Floor Sweeper/Scrubber from Tennant Sales and Service Company, through the Minnesota State contract 135743, in the amount of $68,747.84.

SUBMITTING DEPARTMENT: Department of Public Works, Fleet Division

| EXPENDITURE REQUIRED | $ 34,373.92 General Fund  
|                      | $ 34,373.92 Water & Sewer Fund  
|                      | $ 68,747.84 TOTAL |
| AMOUNT BUDGETED      | $ 34,374 General Fund  
|                      | $ 34,374 Water & Sewer Fund  
|                      | $ 68,748 TOTAL |
| APPROPRIATION REQUIRED | $ 0  
| LINE ITEM NUMBER     | 101-442.30-982.046  
|                      | 592-592.00-982.046 |

BACKGROUND INFORMATION: The recent Department of Public Works (DPW) facility renovation increased the indoor garage floor space from 13,000 square feet to approximately 45,000 square feet. In order to keep the concrete floors, vehicles, floor drains, and HVAC filtration clean, DPW Fleet Division recommends the purchase of a new Tennant M-M30 Floor Sweeper/Scrubber.

This machine will allow DPW staff to maintain a clean environment for worker safety, and working conditions. Since the machine only requires one crew member to operate, it will also save time and water. Currently, DPW staff hand sweeps and/or rinses the floors, which requires several crew members and is a labor intensive task. The Tennant machine applies cleaning solution, scrubs, and rinses the floor, using significantly less product and water in the process. The cleaning should also help reduce sediment accumulation in the drains and sumps; thereby, reducing the frequency of cleaning and maintaining those appurtenances.

RECOMMENDED ACTION: Approval to Purchase a Tennant M-M30 Floor Sweeper/Scrubber from Tennant Sales and Service Company, through the Minnesota State contract 135743, in the Amount of $68,747.84.
# Quotation

**Quotation Number**: 24790347  
**Quotation Date**: 09/30/2019  
**Valid Until**: 11/30/2019  
**PO Number**: QUOTE M30  
**Buyer**: MICHAEL RHATIGAN  
**Tel**: 248-567-0395  
**Delivery Terms**: FOB SHIPPING PT FRT PPD & ADD  
**Payment Terms**: Net 30 Days  
**Currency**: US Dollars

### Ship-To

**CITY OF NOVI**  
26300 DELWAL DR  
NOVI MI  48375

### Customer Number 4088944

**CITY OF NOVI**  
26300 DELWAL DR  
NOVI MI  48375

### Bill-To

**CITY OF NOVI**  
26300 DELWAL DR  
NOVI MI  48375

### Qty | Unit | Material | Description |
--- | --- | --- | --- |
1 | PC | M-M30 | MODEL MM30 SWEEPER/SCRUBBER |

**Reference Number**: M30-LP  
**Machine as equipped**:

- **Trim Level**: Membrane Panel  
- **Cleaning Technology**: Conventional  
- **Squeegee Material**: Linatex  
- **Power Source**: LPG  
- **LPG Tank**: Full  
- **UL/ETL Rating**: UL Type LP  
- **Side Brush Type**: Scrubbing  
- **Side Brush Location**: Right Hand  
- **Dust Control System**: Dry  
- **Heavy Duty Squeegee Protection**: Yes  
- **Front Tire(s)**: High Traction  
- **Rear Tire(s)**: Solid Rubber  
- **Warning Lights and Alarms**: AV BU Alarm-Flash on Tank  
- **Cleaning Tool**: Polypropylene Brush  
- **Side Cleaning Tool**: Polypropylene Brush  
- **Warranty**: Standard Warranty

### Notes

MN STATE CONTRACT 135743

Prepared By: LUANA WHITEIS, Customer Service Representative
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**CITY OF NOVI**  
26300 DELWAL DR  
NOVI MI 48375

## Quotation Details

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M30

LARGE INTEGRATED SWEEPER-SCRUBBER

- Effectively clean in just one pass – wet or dry – with FloorSmart® integrated cleaning system technology
- Achieve excellent cleaning results with ec-H2O™ technology and MaxPro™2 hydraulic technology
- Increase visibility with cab-forward design, open sightlines, and steering-wheel-mounted controls
- Improve the operator and supervisor experience with available Pro-Panel™ technology
INTEGRATED CLEANING SYSTEM

Cleaning path | 48 in | 1,220 mm
With scrubbing side brush | 62 in | 1,575 mm
With sweeping side brush | 64 in | 1,625 mm
Cylindrical main brushes

Brush speed | 480 rpm
Brush diameter (2) | 12 in | 305 mm
Brush down pressure (up to) | 590 lb | 177 kg

Side brush Brush speed | 150 rpm
Brush diameter – scrubbing | 16 in | 410 mm
Brush diameter – sweeping | 21 in | 533 mm

Tanks Solution tank | 75 gal | 284 L
Solution capacity with ES® | 100 gal | 379 L
Recovery tank | 95 gal | 360 L
Demisting chamber | 20 gal | 76 L

Debris hopper Volume capacity | 7 ft³ | 198 L
Weight capacity | 650 lb | 295 kg
Dump height (variable to) | 60 in | 1,525 mm

Vacuum fans Scrubbing fan speed | 11,000 rpm
Scrubbing fan water lift | 35 in | 890 mm
Sweeping fan speed | 6,500 rpm
Sweeping fan airflow | 290 cfm | 8.2 m³/min

DUST CONTROL SYSTEM

Filter system Synthetic fiber panel
Filter area | 78 ft² | 7.3 m²
Dust filtration (to) | 3 microns @ 99% efficiency
Monitoring Timed, beater bar
Shaker mechanism (automatic) Yes
Wet sweeping Integrated

PROPELLING SYSTEM

Propel speed forward (variable up to) | 8.0 mph | 12.9 km/h
Propel speed reverse (variable up to) | 3.0 mph | 4.8 km/h
Engine - LPG (2.0 L) | 42.4 hp | 31.6 kW
Engine - diesel (1.5 L) | 41 hp | 30.6 kW
Gradeability

Transport at gross weight | 8.0 deg / 14.0%
Working (cleaning) | 6.0 deg / 10.0%
Ground clearance (transport) 3 in | 80 mm

Tire front (1), solid 18 x 6.0 in | 460 x 140 mm
Tires rear (2), solid 16 x 5.0 in | 460 x 127 mm

MACHINE DIMENSIONS

Length 108 in | 2,745 mm
Width
Frame 58 in | 1,473 mm
Rear squeegee 59 in | 1,500 mm
With side brush 64 in | 1,625 mm
Height 58 in | 1,473 mm
With overhead guard / cab 84 in | 2,135 mm

Weight
Empty 4,000 lb | 1,815 kg

GVW 5,400 lb | 2,449 kg

Minimum aisle turn 125 in | 3,175 mm

OPTIONAL EQUIPMENT

FloorSmart® integrated cleaning system
Headlights and taillights
High-density Duramer™ exterior
InstantAccess™ filter change
MaxPro™ hydraulic technology
Soft ride tires
Thermo-Sentry™

STANDARD FEATURES

1-Step™ one button sweep/scrub operation
Touch-n-Go™ wheel-mounted module
Wheel-mounted horn
Wheel-mounted water shut-off
Yellow maintenance touch points
No-tool squeegee change
No-tool brush change
Demisting chamber
Dual vacuum fans
Dura-Track™ parabolic rear squeegee
Cushion rollers
Fire extinguisher

OPTIONAL EQUIPMENT

Pro-Panel™ controls
e-c-H2O™ solution system
ES® Extended Scrub w/detergent metering
Hopper cleanout tool
Overhead guard
Power wand
Vacuum wand (wet pick-up)
Safety warning light
Squegee protection kit
Spray hose – 15 ft / 5 m
Pressure washer (2200 psi / 150 bar) with 25 ft (7.0 m) hose
IRIS® solution*

*Available in select regions

WARRANTY

Please refer to your local Tennant representative for information.

For a complete selection of genuine Tennant brushes and pads, please consult the M30 Parts and Consumables Reference Guide.