



CITY OF NOVI CITY COUNCIL
OCTOBER 26, 2020

SUBJECT: Consideration of approval to purchase a 2020 Tymco 600 Sweeper from Fredrickson Supply through the Sourcewell Contract #122017-TYM in the amount of \$279,555.

SUBMITTING DEPARTMENT: Department of Public Works, Fleet & Field Operations Divisions

EXPENDITURE REQUIRED	\$ 279,555
AMOUNT BUDGETED	\$ 279,555
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	210-211.00-984.023

BACKGROUND INFORMATION: The current street sweeper is a 2012 Tymco 600 with 36,521 miles and 3418 operating hours (~430 hours per year). Sweeping units are complex machines with limited useful lifespans of 5-8 years. During operation, the machine is subject to a sand blasting effect from the materials being picked up which gradually wears down the inside of the units equipment. Costs for repairs and maintenance to the existing asset are averaging \$12,000 per year and will increase exponentially every year past the average useful service life; therefore, staff recommends replacing the asset now.

The primary function of the unit is the street sweeping program required for the City's Municipal Separate Storm Sewer System (MS4) Permit. Street sweeping is one best management practices to meet the minimum control measures for pollution prevention and good housekeeping program to prevent or reduce the discharge of pollutants from roadways into the storm water system.

The sweeper is also utilized in several other operations, including picking up street millings and patching materials, municipal lot maintenance, and reactionary services from accidents or material spills.

RECOMMENDED ACTION: Approval to purchase a 2020 Tymco 600 Sweeper from Fredrickson Supply through the Sourcewell Contract #122017-TYM in the amount of \$279,555.



Sourcewell Quote Form v3.0 - Sourcewell Contract #122017-TYM
Feb. 20, 2018 - Feb. 20, 2022



Customer/Sourcewell Member: City of Novi, MI
Customer Contact Name: Mike Rhatigan
Customer Phone: (248) 567-0395
Customer E-Mail: mikerhatigan@cityofnovi.com
Quote Date: 8/28/20
Quoted By: Craig Cook
TYMCO Dealer: Fredrickson Supply
TYMCO Dealer Contact: Bob Pflibsen
TYMCO Dealer Contact E-Mail: (616) 916-0466

Purchasing Details: Issue Purchase Orders to TYMCO, Inc., ATTN: Kaye Morgan (kaye.morgan@tymco.com | 254-799-5546).
Quote is Good for 30 Days | Pricing is Quoted in US Dollars (USD) | Payment Terms: Net 30 Days

MODEL 600 SWEEPER STANDARD EQUIPMENT

Auxiliary Engine: John Deere diesel turbocharged 4045T Final Tier 4; 4 cylinder; 4.5 L (275 CID); 99 HP @ 2200 RPM; Torque 315 ft. lb. @ 1600 RPM; fuel/water separator, fuel filter; Donaldson PowerCore® air filter with scavenged pre-filter; Remote oil filter; 3.8 useable gallon Diesel Exhaust Fluid (DEF) tank. Includes John Deere Standard Warranty coverage 2 Years / 2000 Hours and Extended Warranty coverage up to 5 Years / 5000 Hours, contact factory for details.

Amber Beacon Light - LED: SAE Class 1/California Title 13 compliant with protective limb guard.

Auxiliary Engine In-Cab Air Filter Restriction Indicator with Gauge: A filter restriction gauge included on the in-cab BlueLogic display with an audio and visual high restriction indicator.

Auxiliary Engine Protection System: Engine ECU to provide automatic engine monitoring with derate or shutdown when engine problem is detected such as high coolant temperature or low oil pressure.

Auxiliary Fuse Panel: A 12V DC fused power source panel for any needed additional electrical components or accessories, i.e. radios, warning lights, controls, etc.

Back-Up Alarm

BlueLogic® Control System: Multiplexed electrical system includes hardware and TYMCO designed software that integrates the in-cab controls to the auxiliary engine and all sweeper functions; as well as provides intelligent safety features. The BlueLogic Control System provides sweeper and auxiliary engine data to the operator through the touchscreen display and the multiplexed switch pack. The display is pedestal mounted for improved visibility and includes hour meters (Trip and Total) for the auxiliary engine, gutter brooms, pick-up head, blower, water pump, and BAH broom if applicable; sweeper odometer (records curb miles swept and sweeping hours), service reminders, custom reminders, overspeed warning, low water audible alarm, dust control system winterization guide and On-Board Diagnostics (OBD) for the auxiliary engine and sweeper.

Duo Skids: Warranted for 2 Years / 2000 hours prorated

Dust Control System: 220 gallon capacity polyethylene water tank (Extra Water capacities available); 5 gpm electric diaphragm type pump; low water audible alarm and message on BlueLogic display; external water level indicator; spray nozzles around pick-up head, gutter broom(s) and inside hopper. Peterbilt 156", Autocar 152" Diesel and Autocar 171" CNG chassis REQUIRES Extra Water Capacity (Refer to Dust Control Options Section).

Floodlights: Located on rear of sweeper (2)

Gutter Brooms, Twin; Floodlights and Parabolic Mirrors: Left and right side mounted 43" diameter wire filled digger type; adjustable floodlight for each gutter broom; 10.5" parabolic mirrors. Parabolic Mirrors N/A with Cabover Chassis.

Hydraulic System Protection: Hydraulic filter restriction indicator mounted in filter manifold; sight level gauge mounted on tank. BlueLogic control system continually monitors oil temperature.

LED Alternating Warning Light Set: Rear mounted oval lights (2).

Pressure Bleeder: Air pressure is deflected out, allowing additional suction across the front of pick-up head.

Reverse Pick-Up Head System: Assists in backing up with Pick-Up Head down

Rubber Lined Blower: Warranty: 1 year / 1,000 hours prorated

Water Fill Hose & Rack: Flexible 20 foot long water tank fill hose with 2-1/2 inch hydrant coupling with rack mount. System incorporates air gap.

Work Platform: Easily accessible work platform located between truck cab and sweeper. Standard equipment with conventional chassis with 165" WB and horizontal exhaust. Not available with Extra Water Capacity or Chassis Vertical Exhaust.

Sweeper Warranty: 1 Year / 1000 Hours. Contact factory for details.

Section	Type	Qty	Model 600 Sweeper and Cab/Chassis Equipment	Sourcewell Price	Sourcewell Ext
	Published	1	Model 600 Sweeper with Standard Equipment (Base Price)	138,750.00	138,750.00
1	AUXILIARY ENGINE / HYDRAULIC OPTIONS:				
2	GUTTER BROOM OPTIONS:				
	Published	1	Gutter Broom Drop Down: Right	\$875.00	\$875.00
	Published	1	Gutter Broom Drop Down: Left	\$875.00	\$875.00
	Published	1	Gutter Broom Tilt Adjuster: Right	\$875.00	\$875.00
	Published	1	Gutter Broom Tilt Adjuster: Left	\$875.00	\$875.00
	Published	1	Gutter Broom Variable Speed: Right and Left	\$855.00	\$855.00
3	DUST CONTROL SYSTEM OPTIONS:				
	Unpublished	1	Additional Left Gutter Broom Nozzle	\$400.00	\$400.00
	Unpublished	1	Additional Right Gutter Broom Nozzle	\$400.00	\$400.00
	Unpublished	1	Additional Pressure Transition Nozzle	\$400.00	\$400.00
	Unpublished	1	Additional Hopper Nozzle	\$400.00	\$400.00
	Published	1	A.O.D. (Air Operated Diaphragm) Water Pump with Wash Down Hose & Gun (Exchange)	\$2,075.00	\$2,075.00
	Published	1	High Output Water System	\$855.00	\$855.00
	Unpublished	1	Hydrant Wrench	\$50.00	\$50.00
	Unpublished	1	Water Tank Level Gauge	\$600.00	\$600.00
4	HOPPER OPTIONS:				
	Published	1	Abrasion Protection Package	\$1,275.00	\$1,275.00

Section	Type	Qty	Model 600 Sweeper and Cab/Chassis Equipment	Sourcewell Price	Sourcewell Ext
	Published	1	Dump Switch in Cab	\$285.00	\$285.00
	Published	1	Hopper Load Indicators	\$475.00	\$475.00
	Published	1	Sweeper Deluge System	\$1,045.00	\$1,045.00
5	PICK-UP HEAD OPTIONS:				
	Published	1	Auto Sweep Interrupt (ASI)	\$1,045.00	\$1,045.00
	Published	1	Broom Assist Pick-Up Head (Exchange)	\$4,370.00	\$4,370.00
	Published	1	Pick-Up Head Curtain Lifter	\$1,615.00	\$1,615.00
	Unpublished	1	Skid Bumper Extension Set (3")	\$250.00	\$250.00
6	AUXILIARY HAND HOSE OPTIONS:				
7	STAINLESS STEEL OPTIONS:				
	Published	1	Stainless Steel Hopper, High Capacity Dust Separator and Blower Housing	\$19,190.00	\$19,190.00
	Unpublished	1	Stainless Steel Hopper Screen Upgrade: Stainless Steel Chip Seal/Milling Screen	\$600.00	\$600.00
8	AIRPORT OPTIONS:				
9	ADDITIONAL OPTIONS:				
	Unpublished	1	Camera/Monitor System - Three Cameras [Location Specified in Notes]	\$3,250.00	\$3,250.00
	Unpublished	4	Floodlight (LED) (Exchange) [EA] [Location Specified in Notes]	\$100.00	\$400.00
	Unpublished	2	Floodlight (LED) (Additional) [EA] [Location Specified in Notes]	\$200.00	\$400.00
	Unpublished	1	Storage Box with Work Platform	\$1,200.00	\$1,200.00
	Unpublished	1	Sweeper Paint: TYMCO Standard White	\$0.00	\$0.00
10	UNPUBLISHED/SPECIAL SWEEPER OPTIONS:				
	Unpublished	1	Hopper Suction Inlet Wear Flange (Wear Flange Only)	\$600.00	\$600.00
11	CAB / CHASSIS:				
	Published	1	2020 International 4300-ISB, 31,000 GVW, 165" WB, Diesel	\$85,500.00	\$85,500.00
	Unpublished	1	UPGRADE: 2021 International MV607, 31,000 GVW, 165" WB, Diesel	\$1,000.00	\$1,000.00
12	CHASSIS ADDITIONAL OPTIONS:				
	Unpublished	1	Battery Disconnect Switch	\$450.00	\$450.00
	Unpublished	1	Fire Extinguisher	\$100.00	\$100.00
	Unpublished	1	Hazard Reflectors	\$100.00	\$100.00
	Unpublished	1	LED Alternating Warning Light Set - Front Grill	\$450.00	\$450.00
	Published	1	LED Light Bar: Mounted on cab	\$1,500.00	\$1,500.00
	Published	1	LED Lights - Stop/Turn/Tail/Clearance/Side Markers (Exchange)	\$570.00	\$570.00
	Published	1	LED Traffic Directing Light	\$1,200.00	\$1,200.00
	Unpublished	1	Truck Paint: Standard Factory White	\$0.00	\$0.00
13	UNPUBLISHED/SPECIAL CHASSIS OPTIONS:				
	Unpublished	1	Inside Armrests - (2) Total / (1) per Seat for Both Seats (International / Freightliner Chassis Only)	\$400.00	\$400.00
14	DEALER UNPUBLISHED OPTIONS				
15	TOTAL COST OF ACQUISITION COSTS				
		1	Freight / PDI / Inservice	\$4,000.00	\$4,000.00

Total Unit Price:	\$279,555.00
FOB:	Novi, MI
DELIVERY ARO:	90-120 Days

Sourcewell Customer Quote Notes

Camera System - 1 on rear, 1 each side with pick-up head view
LED Floodlights (exchange) - 2 on rear, 1 each gutter broom
LED Floodlights (additional) - 1 each side illuminating pick-up head