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Staff Report PW2022-022

Title of Report: PW2022-022 Municipal Sidewalk Machine Tender Award Recommendation
Department: Public Works
Branch: Transportation & Public Safety
Council Date: April 6, 2022

Recommendation:

Be it resolved that Council receive Staff Report PW2022-022 for information; and **That** Council approve the Municipal Sidewalk Machine Tender award to Work Equipment for a 2022 refurbished Trackless MT57 with new ribbon blower and new sand/salt spreader in the amount of \$159,900.00 plus HST.

Background:

The Municipal Sidewalk Machine Tender opening was conducted virtually and closed on March 1, 2022, at 2:00pm. Treasurer Liam Gott, Administrative and Legislative Assistant Holly Malynyk, Public Works Foreman/Fleet Manager Phil Wilson and Public Works Manager Jim Ellis participated in the openings.

At the time of opening 1 submission had been submitted on time electronically by Work Equipment Ltd. A representative from another bidder submission brought forth that an electronic submission was also sent for this equipment. Treasurer Gott confirmed with Infinity Solutions that they found it caught in the spam filter due to the zip file attachment. It was determined the submission is eligible for consideration as the time stamp was 12.56 pm from MacLean Engineering and Marketing Co., concluding there were 2 tenders received for the 2022 Municipal Sidewalk Machine tender.

Staff Report PW2022-014 Road Tenders Award Recommendations included the following comment:

There were 2 submissions for the Sidewalk Machine, these proposals are still under review for engine specifications and emissions. A report to follow when information is confirmed for this equipment.

Staff Comments:

The Work Equipment submission is for a 2022 Trackless MT57 refurbished unit. The MacLean Engineering is for a new 2022 MV5 unit.

Engines:

The refurbished units include Trackless 115 horsepower (HP) new Cummins QSB4.5 engine, emission rating Tier 3. The MacLean 120 hp Cat C3.6 engine, emission rating Tier 4.

Warranty:

The MacLean warranty is 1 year, 600 hours, and the Trackless warranty is 1 year, 1200 hours and 2 years or 2000 hours on the engine.

Delivery:

Delivery dates are 19 weeks for MacLean, 60 to 90 days for Trackless.

Attachments:

One new ribbon snow blower, and 1 new sand/salt spreader are included in pricing.

Discussion:

MacLean Engineering has provided information regarding engine emissions and ratings for non-road mobile equipment and meeting Tier 4 Final emission standards to be compliant with EPA/Environment Canada guidelines, that there must be a label(s) affixed to the tractor and engine stating it meets or exceeds Tier 4 Final emissions standards, interpreting the competitor submission is not compliant with a Tier 3 engine.

Work Equipment with their repurposing of an existing Trackless MT5 tractor to new condition and specifications, with a new Cummins Tier 3 engine, is compliant with the engine being physically labelled with Emission Control Information, "For non-road applications this engine may not be installed in equipment more than 40 years old at the time of installation."

The Canada Gazette, official newspaper of the Government of Canada, Off-road Compression-Ignition (Mobile and Stationary) and Large Spark-Ignition Engine Emission Regulations: SOR/2020-258 includes:

Definition of Replacement Engine:

subject to subsection 25(4), means an engine that is manufactured to replace the engine of a machine for which no engine exists that

- (a) conforms to the applicable standards referred to in sections 10 to 23;
- (b) has the physical or performance characteristics necessary for the operation of the machine; and
- (c) is manufactured by the manufacturer of the original engine or the replacement engine. (moteur de remplacement)

Section 25

Limitation

(4) An engine is a replacement engine only if it was manufactured to replace the engine of a machine that is located in Canada and that, on the day that the replacement engine is installed, had its manufacture completed

- (a) in the case of a machine in or on which a mobile engine is installed, 40 years ago or less; or

- (b) in the case of a machine in or on which a stationary engine is installed, less than 15 years ago.

Staff emailed Environment Canada for clarification on this emission validation on March 9, 2022 and have had no response to date.

Evaluation:

Staff have evaluated the following criteria and scoring values:

Evaluation Criteria	MacLean	Trackless	Weighted Factor	Comments
Qualifications & Experience of Company	10	10	10	Comparable
Design of Equipment & Features	30	30	30	Trackless/Maclean interchangeable attachments
Delivery Schedule	10	10	10	60 to 90 days Trackless 19 weeks MacLean
Equipment Cost	25	50	50	
Total Score	75	100	100	

Municipal Sidewalk Machine & Attachments

Bidder			
Make	Engine	Warranty	Total Excluding HST
Trackless MT57	New Cummins QSB4.5	2 years or 2,000 hours engine warranty 12 months or 1,200 operating hours	\$159,900.00
MacLean Engineering MV5	New Cat 3.6	12 months or 600 hours	\$184,522.00

Financial Implications:

The 2022 Capital Roads Budget includes a new municipal sidewalk machine for \$180,000.00 to be added to the fleet in Dundalk and the Trackless unit 113 be allocated to Holsten for winter sidewalk maintenance operations.

Communications & Community Action Plan Impact:

Goal 5 - Upgrading our "Hard Services"

Action 5: The residents and businesses of Southgate recognize our linear services - roads, bridges, water and sewer works, for example - to be a fundamental purpose of municipal government. This infrastructure needs to be serviceable and sustainable so that our businesses and communities can thrive and grow.

Concluding Comments:

Staff recommends that Council receive Staff Report PW2022-022 for information, and that Council approve the Municipal Sidewalk Machine Tender award to Work Equipment for a 2022 refurbished Trackless MT57 with new ribbon blower and new sand/salt spreader in the amount of \$159,900.00 plus HST.

Respectfully Submitted,

Dept. Head: Original Signed By
Jim Ellis, Public Works Manager

Treasurer Approval: Original Signed By
William Gott, CPA, CA Treasurer

CAO Approval: Original Signed By
Dave Milliner, CAO

Attachments: