



TWO RIVERS

WISCONSIN

PUBLIC WORKS
Engineering Division
1717 E. Park Street
P.O. BOX 87
Two Rivers, WI 54241-0087



Memorandum

Department of Public Works

Date: September 13, 2023

To: City Council
Greg Buckley, City Manager

From: Matthew R Heckenlaible, PE *mjh*
Director of Public Works / City Engineer

Re Request to Purchase Camion IMT300 Brine Sprayer

Looking ahead to the 2023-2024 winter season, DPW would like to add liquid brine pavement pretreatment into our snow and ice management program within the City of Two Rivers. Presently, Two Rivers DPW addresses snow and ice after it has accumulated on the pavement. Then, depending upon conditions, they need to plow and spread rock salt to play "catch up" to remove the snow and ice from the pavement. By applying liquid brine onto the pavement ahead of a winter storm event (up to three days prior), the salt base is already on the pavement aiding in keeping the pavement bare for longer periods at the beginning of the storm creating bare/wet pavement conditions on average approximately 12 percent faster than just utilizing rock salt. Getting down to a bare/wet pavement condition sooner increases road friction which increases driving conditions sooner. It has been shown that pretreating the streets with liquid brine can reduce overall salt usage on an average of 23 percent. The pavement pretreatment can be completed prior to a winter event during normal business hours, which again, saves the City money.

In August, Casper's Truck Equipment came and demonstrated a Camion IMT250 (250 gallon) liquid brine sprayer on the back of a half-ton pickup truck. The unit can spray up to 30 feet wide and includes a hose reel that allows the operator to get out and spray steps and ramps away from the normal roadway or parking lot area. The controller allows the operator to spray straight down, left, right or any combination of the three together. In addition, it will track where the brine is being applied, at what application rate and the speed of the vehicle during the application. A smaller pickup truck mounted unit, verses dump truck unit, is large enough as an entry level unit but also small enough to assist in pretreating the City Hall parking lot, the ramp to the parking garage under City Hall and the ramps leading up to and away from the sally port area for the Police Department. DPW Staff were impressed with its features and had a strong desire to add this equipment to assist in managing winter snow and ice.



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Savings were recognized within the 2023 Public Works Capital Equipment Fund with the initial bid (purchase) of the single axle dump trucks earlier in the year and opting to buy out the lease of the tracked skid steer rather than purchasing a new skid steer as can be seen in the table below.

Request	Budgeted	Bid/Purchase	Recognized Savings
Single Axle dump truck w/ plow and sander	\$300,000	\$223,944	\$76,056
Skid Steer	\$55,000	\$22,567.18	\$32,432.82

Casper's Truck Equipment provided DPW with a quotation for a 300-gallon and a 500-gallon unit and Storm commander GPS flow controller. DPW is only considering the 300-gallon unit that can be mounted and transported on one of the existing 1-ton pickup trucks.

The request was brought forward to the Public Works Committee on September 6, 2023, and received unanimous support.

DPW is requesting City Council authorization to purchase one Camion IMT300 Brine Sprayer and Storm commander GPS flow controller from Casper's Truck Equipment in the quoted amount of \$21,884.00 prior to the 2023-24 winter season.

The quotation and literature are included as part of this memo.



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Date: 08-16-2023
Email: mathec@two-rivers.org
Phone: 920-793-5539
Note: _____

**** Sales Quotation ****

1. Camion IMT300

- A. 300 Gallon poly tank
- B. 22 Nozzle ice control three lane spray bar
- C. 22" adjustable slide mount
- D. Liquid level sight tube
- E. Baffle-ball surge control to eliminate slosh
- F. Auto drain sump basin to use allow use of all the liquid
- G. Stainless steel frame
- H. 2" fast fill connection
- I. Rapid empty drainage system to quickly empty left over liquid
- J. ECOMAXX - 12V high flow pump
- K. Standard control
- L. 100' Hose reel
- M. Installed and complete

Total: \$15,660.00

2. Options

- A. Storm commander GPS flow controller

Add: \$6,224.00

Submitted by: Sam Stein

All Sales Tax and FET Tax will be added

Quote firm 30 days

Terms: Net 30

Unless previously arranged, for quotes in excess of \$5,000.00 Casper's requests 25% payment upon approval / purchase order.

By signing below, I agree that I have read, understood, and will comply with the terms of this quote.

Quote accepted by: _____

Title: _____

Date Accepted: _____

PO# _____

Thank You for the opportunity to submit our quote for your consideration

ICE MASTER® T-SERIES

BAFFLE-BALL™ SURGE CONTROL

The slosh is eliminated. It feels like a solid load.

AUTO-DRAIN™ SUMP BASE

The sloped tank base channels every ounce of brine to the drain. Just where it should go.

RUST-ARMOUR™ STAINLESS FRAME

No rust. No corrosion. This guarantees years of unmatched service.

TIME-SAVER™ FORK-POINTS

The built-in fork slots makes the entire unit a breeze to lift and load.

TRI-ZONE™ SPRAY SELECTION

Choose where you want to spray by selecting left, right or center. No more expensive salt damage. No more wasted liquid.

FAST-FILL™ SYSTEM

Quickly attach and fill so more time can be spent on the job.

DOUBLE SPRAY BAR SYSTEM

High volume Pre & Post treatment spray bars.

SPECIFICATIONS

COMPATIBLE SPRAY BOOM	FRAME TYPE	COLOR	HOSE LENGTH	MOUNTING	TANK TYPE	SPRAY GUN TYPE
IMSB7, IMSB9, IMSB12, IMSB22	Stainless Steel	Safety Orange	50'	4 Tie-Down Slots	Single-Piece, Roto Mold HDPE	Adjustable Jet/Fan

*Double your 5 yr tank warranty when you register this product.
*All Enduraplas poly tanks are manufactured in the United States of America.



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