

cityofnovi.org

CITY of NOVI CITY COUNCIL

Agenda Item H
October 12, 2009

SUBJECT: Approval to purchase six (6) dump truck tailgate mounted brine dispensing systems from Truck & Trailer Specialties, Inc, the low bidder, in the amount of \$19,164.

SUBMITTING DEPARTMENT: Department of Public Services – Field Operations Division *(M.W.)*

CITY MANAGER APPROVAL: *pw for cost*

EXPENDITURE REQUIRED	\$19,164
AMOUNT BUDGETED	\$378,000 (101-442.20-984.000)
APPROPRIATION REQUIRED	N/A
LINE ITEM NUMBER	101-442.20-740.000

BACKGROUND INFORMATION:

Because pre-wetting road salt will yield up to a 30% savings in salt consumption, the \$22,691 savings from the purchase of a replacement dump truck approved at the September 14th Council meeting is proposed to go toward the purchase of six tailgate-mounted brine dispensing tank and pump units. This equipment will be used to dispense salt brine, a liquid that will mix with rock salt before application. Studies have shown that trucks with similar pre-wetting equipment save 26% from dry salt loss associated with scatter, bounce and traffic; plus saturated salt goes to work on roadway ice immediately, which yields greater effectiveness and lower overall salt use. The payback period for the purchase should occur after the first few major winter storm events.

These new brine dispensing systems will augment the existing fleet by giving the City a total of 9 out of 16 dump trucks with pre-wetting capability. The attached photograph shows a truck with a tank and pump unit attached.

On September 30, 2009 four bids were received following a public bidding period. Upon a thorough evaluation, the Department determined that Truck & Trailer Specialties Inc. met all specifications by providing a responsive bid for two (2) 140 gallon tanks and four (4) 100 gallon tanks, including all specified hardware. Installation of each unit will be accomplished by in-house staff.

Company	Two (2) 140 Gallon Brine Dispensing Systems	Four (4) 100 gallon Brine Dispensing Systems	Total	Delivery Time
Truck & Trailer Specialties	\$7,312	\$11,852	\$19,164	45 Days
Cannon Truck Equipment	*\$6,998	\$13,196	\$20,194	45 Days
Shults Equipment	\$8,194	\$13,788	\$21,982	45 Days
Knapheide	\$12,320	\$24,640	\$36,960	60 Days

*135 Gallon Tanks

RECOMMENDED ACTION: Approval to purchase six (6) dump truck tailgate mounted brine dispensing systems from Truck & Trailer Specialties, Inc, the low bidder, in the amount of \$19,164.

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Gatt				
Council Member Burke				
Council Member Crawford				

	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Staudt				



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Henderson

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CITY OF NOVI

TRUCK MOUNTED LIQUID BRINE DISPENSING SYSTEMS

EQUIPMENT DISTRIBUTOR QUESTIONNAIRE

Date: 9/21/09

Firm Name: Truck and Trailer Specialties

Address: 6726 Hanna Lake Rd. S.E.

City: Dutton State: Mi Zip: 49316

Telephone Number: 616-698-8215 Fax Number: 616-698-0972

Agents Name: Thomas W. Giles

Agent's Title: Sales Representative

Agent's Signature: Thomas W. Giles

Email Address: tgiles.tts@Sbcglobal.net

Firm Established: 1973 Years in Business: 36

Type of Organization: (Circle One)

- a. Individual
- b. Partnership
- c. Corporation
- d. Joint Venture
- e. Other

How many full-time employees? > 40 Part-time employees? > 10

Provide information relative to the experience your company has had working with municipalities. Please provide the names of municipalities where service/product was provided.

We have over 100 municipalities in Michigan that we serve.

Local: Livonia, Wixom, Dearborn, Farmington Hills, Brighton, Oakland, CRC, and many others

How many clients does your company currently serve with the type of services described? Provide a list.

see attached document

Please provide a list of client references (minimum of 5) other than the City of Novi. Include name, address, phone number and contact person. Please include any municipalities (or other governmental agencies) that you worked for.

see document attached

Provide a description of your company's philosophy relative to providing quality products and superior service.

please document attached

TRUCK & TRAILER SPECIALTIES

The following Counties and Cities bought equipment and have had trucks built from Truck and Trailer Specialties

Barry County Rob Richardson (269) 945-5823	City of Belding Ernie Thomas (616) 794-1340
Berrien County Joe Margo (269) 925-1196	City of Big Rapids Van Johnson (231) 796-8998
Cass County Gary Rohacs (269) 445-8611	City of Eaton Rapids Scott Poyer (517) 663-8118
Clinton County Jeff Brown (989) 224-3274 ext. 234	City of Grand Ledge Greg Brooks (517) 627-2144
Grand Traverse County Jim Valade (231) 929-9290	City of Grennville Joe Gay (616) 754-5098
Ionia County Don Chubb (616) 527-1700	City of Ionia Dave Lennemann (616) 527-5786
Kalamazoo County Duane Antcliff (269) 381-3171	City of Jackson Greg Lucas (517) 768-6064
Mecosta County Mike Simon (231) 796-2611	City of Ludington Dave Wrolbe (231) 845-1479
Montcalm County Randy Stearns (989) 831-5285	City of Montague Tom Kroll (231) 893-2235
Muskegon County Randy Smith (231) 788-7270	City of Muskegon Andy Twork (231) 724-6912
Newaygo County Lee Vissor (231) 689-6682	City of Norton Shores Terry Sladick (231) 798-2156
Ottawa County Don Karle (616) 850-7251	City of Paw Paw Trace Kirvan (269) 657-3169
St Joseph County Dave Bruischart (269) 467-7265	City of Springfield Tom Matson (269) 965-2354
MDOT Lansing Jeff Turner (517) 334-7768	City of St Joseph Don Evans (269) 983-6341
MDOT Detroit Cliff Sword (313) 965-6372	City of Wyoming John Hathaway (616) 530-7273
MDOT Auburn Hills John Ferrell (248) 373-4580	City of Bridgman Rich Knuth (269) 465-5132
University of Michigan Rob Dolezky (734) 260-3529	

Truck & Trailer Specialties, Inc.

6726 Hanna Lake Rd SE

Dutton, MI 49316

Ph 616-698-8215/Fax 616-698-0972

QUOTATION

September 21, 2009

City of Novi

Monroe Tailgate mounted Pre-wet system not installed and delivered to city:

LDS-455 HYDRAULIC OPEN LOOP PRE WET SYSTEM TO INCLUDE THE FOLLOWING:
HYDRAULIC DISPLACEMENT BRONZE GEAR PUMP, 7GPM AT 50PSI. PROPORTIONAL
ADJUSTABLEFLOW DIVIDER THAT PROVIDES THE SELECTED GALLONS TO TON RATIO ALL
WITHIN A SEALED NEMA FIBERGLASS ENCLOSURE
TWO 3GPM BRASS SPRAY NOZZLES, STRAINERS AND HOSES FOR APPLYING LIQUID.
IN CAB CONTROLLER HAS ILLUMINATED ON/OFF SWITCH, LOW PRESSURE INDICATOR AND
HARNESING FOR EASE OF INSTALLATION, MISCELLANEOUS HARDWARE INCLUDED.
100 GALLON TAILGATE TYPE TANK WITH STAINLESS STEEL HARDWARE (150 not available)
TWO TAILGATE PROP LINKS
BULK FILL AND FLUSHER KIT

QUANTITY _____ - 4
UNIT PRICE _____ \$ 2,963.00

Same as above with 140 gallon tank Unit Price: 3656.00 (2) units

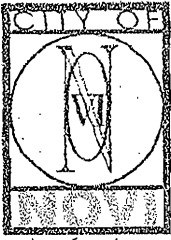
Deduct bulk fill and tailgate props: \$70.00 ea. Unit

All 6 units must be purchased at one time for this bid pricing

Delivery 35-⁴⁵~~55~~ days

Respectfully submitted,

Tom Giles
Sales Engineer



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CITY OF NOVI
COST PROPOSAL

TRUCK MOUNTED LIQUID BRINE DISPENSING SYSTEMS

We the undersigned as bidder, propose to furnish to the City of Novi, according to the specifications, conditions and instructions attached hereto and made a part thereof:

<u>DESCRIPTION</u>	<u>AMOUNT</u>
Two (2) 140 gallon Truck Tailgate-Mounted Liquid Brine Dispensing Systems # 3,656.00 ea	\$ <u>7,312.00</u>
Four (4) 100 gallon Truck Tailgate-Mounted Liquid Brine Dispensing Systems # 2,963.00 ea	\$ <u>11,852.00</u>
TOTAL	\$ <u>19,164.00</u>

includes bulk fill + tailgate prep

Delivery after receipt of purchase order (not to exceed) 45 days
if not wanted deduct \$7000 ea unit

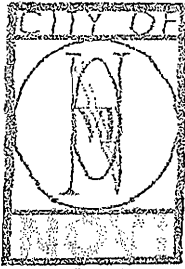
We acknowledge receipt of the following addendums: NONE
(please list numbers)

Company Name: TRUCK + TRAILER SPECIALTIES

Agent Name: (please print) THOMAS W. GILES

Agent's Signature: Thomas W. Giles

Date: 9/21/09



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CITY OF NOVI

**TRUCK TAILGATE-MOUNTED LIQUID BRINE
DISPENSING SYSTEMS
FOUR (4) 100 GALLON UNITS
TWO (2) 140 GALLON UNITS**

SPECIFICATIONS

I. PROPOSALS

The City of Novi is seeking bid proposals for Six (6) truck tailgate-mounted liquid brine dispensing systems, which will be used by the Department of Public Services to pre-wet salt for application on local roads. This bid is for complete brine dispensing units that will be delivered to the City of Novi Department of Public Services. **Installation is not part of this bid package**

**II. SPECIFICATIONS: TRUCK TAIL-GATE MOUNTED LIQUID BRINE
DISPENSING SYSTEMS**

Bidder must complete the following specification check list as well as submitting other information as required herein.

ITEM	Meets Specifications?	
	Yes	No, Explanation
Hydraulically driven positive displacement bronze gear pump shall be plumbed in series with the exhaust oil from the conveyor/auger motor of the spreader.	✓	
The bronze gear pump shall have a variable flow rate and be directly coupled to a hydraulic motor.	✓	
Gear pump shall have a stainless steel shaft, with bronze bearings, grease fittings and adjustable internal bypass.	✓	
A 12 VDC PWM proportional adjustable flow divider shall provide the selected gallons to ton ratio. (Must be capable of producing 20 gallons per ton from the pump enclosure.)	✓	
The pump enclosure shall protect the pump, motor assembly, 4 PSI low pressure sensor, and flow divider.	✓	
Electrical connections and wiring shall be hard wired within the enclosure and console. Wire harnesses shall incorporate element resistant weather pak connections with disconnect at rear of truck.	✓	
Hydraulic connections shall be made via bulkhead style JIC stainless steel connectors.	✓	

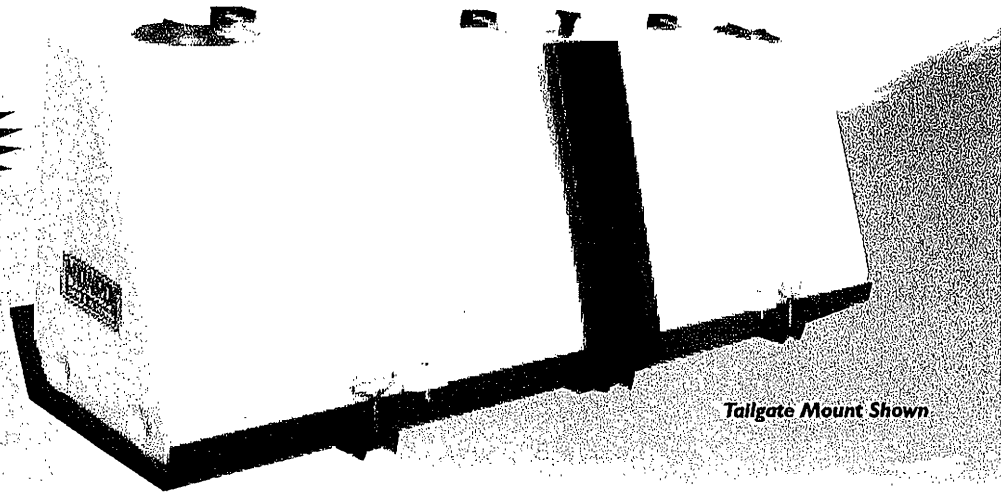
ITEM	Meets Specifications?	
	Yes	No, Explanation
Four (4) Reservoirs shall have a minimum 100 gallon capacity; two (2) reservoirs shall have a minimum 140 gallon capacity. All shall have, tailgate mounting and have internal baffles.	✓	
Each reservoir shall have a minimum of two 5" caps, lanyard retained.	✓	
Each reservoir shall be constructed of a rotationally molded and UV stabilized polypropylene material with a minimum .350" wall thickness.	✓	
The tank shall have two 1 1/4" ports and one molded gallon marking located on each end and a vent.	✓	
The ports shall be located as close to the bottom as possible. Inlet must be compatible with existing brine makers.	✓	
The tank shall be complete with necessary stainless steel mounting brackets and hardware.	✓	
The two brass spray nozzles shall be located in the auger assembly.	✓	
5 PSI check valves shall be installed in the nozzles to prevent siphoning of the liquid chemical.	✓	
Plumbing components shall be constructed of heavy-duty glass reinforced polypropylene or brass, except check valves.	✓	
The hose for the suction line to the pump shall be 3/4" EPDM. All pressure hoses shall be 1/2" EPDM.	✓	
A 3/4" filter with 304 stainless steel reinforced screen and clean-out plug shall be installed in the suction line.	✓	
A single control panel shall have the following items: <ul style="list-style-type: none"> - An on/off switch with an illuminated system on indicator - A solid red low pressure indicator light - A low liquid level indicator light and float switch 	✓	
The system shall include a flusher kit for the pump unit.	✓	
Are you able to deliver the product within 30 days of receipt of a purchase order?		

see duct
 if not wanted
 Bulk fill ✓
 Tailgate props (2) ✓



LDS-455 Hydraulic Liquid Dispensing System

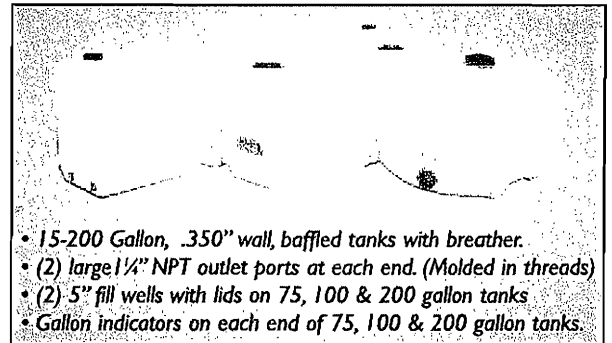
VISIT US ONLINE AT
www.monroetruck.com



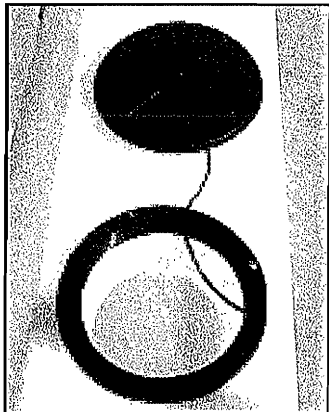
Tailgate Mount Shown

Standard System Includes:

- NEMA Weather-tite Fiberglass Pump Enclosure with Hydraulic, 7GPM pump assembly (Optional 4GPM)
- Glass Filled Polypropylene Plumbing Components
- Black EPDM Hose, 150PSI
- 5PSI In-Line Check Valve for Nozzles
- 2 Nozzle w/ Brass Tips and Caps
- In Cab Controller with Backlit On/Off System Switch
- Low Pressure Switch with Indicator Light
- Weather Pack Connections on Harnessing
- Tank Mounting Kits for V-box, Tailgate or Chassis Applications (Fits up to 9" radius dump bodies)
- Powder Coated Mild Steel Mounting Bracketry (Optional Stainless Steel)



- 15-200 Gallon, .350" wall, baffled tanks with breather.
- (2) large 1/4" NPT outlet ports at each end. (Molded in threads)
- (2) 5" fill wells with lids on 75, 100 & 200 gallon tanks
- Gallon indicators on each end of 75, 100 & 200 gallon tanks.



Tethered 5" lid and slosh guard,
standard on 75 & 100 gallon tanks.

