

INVITATION TO BID
CITY OF SPRINGFIELD
BID 1012

The City of Springfield, Public Works Department will be accepting bids for the following:

SINGLE AXLE DUMP BODY & TRUCK, WITH SNOW PLOW & COMPUTERIZED SPREADER

Call Allan S. Ellis, PE, Director of Public Works at 615-384-2746 for complete bid information and instructions. Bids must be received in the Office of the City Recorder (405 N. Main St., Springfield, TN 37172) by 2:30 PM, local time, Wednesday, February 8, 2017.

The City of Springfield reserves the right to reject any and all bids.

**Lisa Crockett
City Recorder**



CITY OF SPRINGFIELD

Public Works Department

Street • Sanitation • Vehicle Maintenance • Storm Water

2809 Clinard Drive • Springfield, TN 37172

Telephone (615) 384-2746 • Fax (615) 382-2205

Page 1 of 3

Revised 1-24-17

INVITATION:

The City of Springfield is requesting bids for a Single Axle Dump Body & Truck, with Snow Plow & Computerized Salt Spreader for the Public Works Department.

CONDITIONS:

Units offered under this advertisement shall be new, standard production models of the latest design in current production.

Materials shall be of good commercial quality for the intended service and shall be produced by use of current manufacturing processes. Material shall be treated to resist rust, corrosion, and wear.

The design of the mechanical members shall be such that the stress imposed through normal shock loads at maximum engine torque shall not cause rupture or permanent deformation of undue wear on any member.

The bidder shall satisfy the purchasing official that he maintains a store or branch within 75 miles of the working location of the machine, with provisions for storing a representative supply of parts for the machine offered and with provisions for securing parts from the manufacturer within a reasonable length of time.

Bidders must submit with their bid a thorough and concise Warranty on the proposed equipment, printed specifications and advertising literature on the unit they propose to furnish.

Bidder shall supply one (1) parts book, one (1) service and repair manual, and three (3) operator's manuals with each unit.

The bidder shall list on a separate sheet of paper any variations from, or exceptions to, the conditions and specifications of this bid. This sheet shall be labeled "Exception(s) to Bid Conditions and Specifications," and shall be attached to the bid.

Bidder shall be prepared to give a complete demonstration of the merits of the machine offered as directed by the purchaser. The machines so demonstrated shall be complete as offered by the bidder for this bid.



Purchaser desires delivery to be completed within 120 days from date of award. Bidder certifies delivery will be completed _____ days from date of award.

The price or prices quoted shall include all transportation charges fully prepaid to the City of Springfield, Tennessee.

Awards will be made to the lowest responsible bidder. The quality of the articles to be supplied, their conformity with the specifications, their suitability to requirements, delivery terms and guarantee clauses shall be taken into consideration. Guarantee Clauses: Clauses requiring specific guarantees to cover parts delivery, parts repair, total repairs and resale value may be included.

The purchaser reserves the right to reject any or all bids, to waive any informality in bids, to accept in whole or in part such bid or bids as may be deemed in the best interest of the purchaser.

BID PROPOSAL

BASE BID:

**SINGLE AXLE DUMP BODY & TRUCK
WITH SNOW PLOW & COMPUTER
CONTROLLED SPREADER
(per attached specifications)**

NOTE

Please submit complete specification sheet with bid.

Respectfully submitted,

(Signature Bidder)

(Date)

(Company)

(Telephone)

(Address)

(Fax)

SPECIFICATIONS FOR 12' DUMP BODY & CHASSIS SNOW REMOVAL EQUIPMENT

Rev 1-24-17

SCOPE: The intent of these specifications is to describe a 12' dump body and chassis with snow plow, under tailgate spreader, and central hydraulic system.

GENERAL: All equipment furnished shall be new, unused and of the manufacturer's current production design. **Bidder must meet the minimum standards established by this specification sheet.** Bidder must accurately complete this form and include this completed form with the bid. Bidder shall check "YES" where specifications are met. If the specifications are not met, bidder must check "NO" and list all deviations on a separate sheet. Failure to note any deviations shall be cause for bid rejection.

YES/NO

I. CHASSIS-CAB SPECIFICATIONS: New and Unused, 2018 Conventional Chassis, 126" CA (Minimum), White.

A. ENGINE:

1. Navistar N9 Diesel, 6 Cylinder, 9.3 L, 300 HP @ 2,000 RPM; 860 lb-ft of torque @ 1200 RPM or equal
2. Single Horizontal After treatment Mounted Right Side Under Cab w/ RH Vertical Tailpipe.
3. 13.2 CFM Air Compressor.
4. Three (3) H.D. Batteries Maintenance Free 1950 CCA with Battery Cut-off switch.
5. 160 Amp Alternator.
6. Heavy Duty 1045 In² Aluminum Radiator.
7. Electronic Engine Integral Shutdown Protection System.
8. Heated Fuel / Water Separator.
9. 120V / 1250W Engine Block Heater.
10. Circuit Breakers in lieu of Fuses.
11. Cruise Control.

B. TRANSMISSION: Allison Automatic 5-Speed with Overdrive 3500 RDS with PTO Provisions.

C. FRONT AXLE & SUSPENSION:

1. 12,000# Capacity Front Axle.
2. 12,000# Capacity Front Suspension.
3. Stemco Voyager Front Wheel Seals.
4. Power Steering.

J. WARRANTY: Bidder Shall State Warranty. Minimum Warranty must include 36 Month Towing (Maximum \$400.00 per Incident); 60 Month/ 150,000 miles/5400 Hours Engine and Engine Electronics Warranty; 60 Month// 125,000 Miles/4500 Hours Aftertreatment Warranty; 24 Month// 100,000 Miles Vehicle Warranty. Includes 2-Year On-Command Service Subscription.

YES/NO

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| II. BODY SPECIFICATIONS: Dump Body shall be a heavy duty contractor body. | ___ | ___ |
| A. BODY DIMENSIONS: Minimum, 144" Long X 84" Inside Width Body with 30" Sides. | ___ | ___ |
| B. FLOOR: 96" wide one piece 1/4" AR450 Hard Ox steel floor with 12" rolled side to floor radius and 60" wide flat center for cleaner dumping and easier cleanout. | ___ | ___ |
| C. HEADBOARD: | | |
| 1. Full Width Steel Headboard that is 60" in Height. | ___ | ___ |
| 2. Headboard shall be fabricated 3/16" AR450 Hard Ox Steel with No Bulkhead offset | ___ | ___ |
| 3. Standard Cab shield with a Width of 90" and a Length of 36" With 6" Cab shield front. | ___ | ___ |
| 4. Cab shield shall be constructed of 10-Gauge High Tensile Steel | ___ | ___ |
| 5. Cab shield shall have 6" wind deflector formed in it for tarping system | ___ | ___ |
| D. UNDERSTRUCTURE: | | |
| 1. Formed trapezoid longsills with rubber cushion. | ___ | ___ |
| 2. Crossmemberless understructure. | ___ | ___ |
| E. SIDES: | | |
| 1. 36" Constructed of 3/16" AR450 HardOx Steel with 3/16" Formed Boxed Top Self-Shedding Rails with no side bracing, vertical or horizontal. | ___ | ___ |
| 2. Sides Supplied with 8" Tall Front, Middle and Rear Board Gussets and an Aluminum Extruded Boards 8" tall for each side. | ___ | ___ |
| 3. Rear Corner Post are Full Depth, Fully Welded to the Body constructed Of 3/16" High Tensile Steel. | ___ | ___ |
| 4. Fender/Bottom Rail constructed of 10-Gauge High Tensile Steel | ___ | ___ |
| 5. Aluminum Deck Plate over fenders on both sides, approved by city | ___ | ___ |

F. TAILGATE:

YES/NO

- 1. 42" Tall 3/16" AR450 Hardox Steel with 3-Panel construction with bracing
Going horizontal and no slope that is of the upward acting design.
- 2. Fully Boxed and Welded Tailgate Frame with 35° Dirt Shedder Structure on
Lower Frame.
- 3. Air operated, controls in cab, tailgate latching system, painted to match body.
- 4. Bolt-on rear asphalt apron.

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G. HOIST:

- 1. Single Cylinder, Telescopic Hoist System. To minimize fitting problems hoist
And body must be manufactured by the same manufacturer. Non-Inverted Mounting.
- 2. One (1) 5", 3-Stage Telescopic Hoist with 84"-Stroke Cylinder.
- 3. Hydraulic Pump is Air Shift PTO Driven with In-Cab Control.
- 4. Rear Hinge: 1-3/4" Steel Platform Full Pin
- 5. Subframe: 1/4" Short "Z" Style

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H. ACCESSORIES:

- 1. Body shall be Equipped with a 25-Ton forged spring-loaded-type Pintle Hitch
with Safety Chain Attachments, 7 Blade Electric Plug mounted and Air Brake
Hook-ups on rear reinforced plate.
- 2. Body Shall be Equipped with Back-Up Alarm.
- 3. All Body lights Shall Be Rubber Grommetted recess mounted With Pop-Out
Capabilities with controls in cab.
- 4. (2) 6"-Oval self-contained LED strobes recess mounted in Cabshield Front. Mounted
street-side LED Corner and (1) mounted LED curbside corner on Cab shield Front.
- 5. (1) 6"-Oval Stop/Tail/Turn Light and (1) 6" Oval Self Contained LED Strobe Light
In each Rear Post
- 6. Grip strut steps on street-side front with flat bar steps inside at drivers front
- 7. Body shall be equipped with an electric tarp system that has aluminum arms
Mounted behind the integrated wind deflector on the Cabshield that has controls
In the cab with a minimum of a 14'-long tarp that is made of mesh material

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I. MOUNTING AND PAINTING:

- 1. Body and Hoist Shall Be Mounted within Industry Standards. All items frame
mounted shall be huck bolted to frame for safety and lowered maintenance.
NO EXCEPTIONS.
- 2. Body and Hoist Shall Be Cleaned, Primed and Painted Dupont Imron Elite Black.

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C. PUSH FRAME:

YES/NO

- i. 3½" x 3½" x 5/16" X 96" structural steel tube push frame. Two (2) ½" thick, adjustable height, running gear mounts, and two (2) ½" thick lift chain mounts. ___ ___
- ii. Semi-circle is 3½" X 3½" X ½ angle welded to the push frame. ___ ___
- iii. Four (4) moldboard-to-push frame pivot points with 1¼" bushings pinned to Two (2) 5/8" mounting ears with 1¼" plated pivot pins. ___ ___
- iv. Twin 3" x 10" chrome plated heavy duty hydraulic cylinders for power reversing. Twin reversing cylinders are located above the push frame for protection against road debris and ease of service. ___ ___
- v. 3½" x 3½" x 3/8" formed channel "A" frame supporting a 1½" center reversing king pin mounted in 2¼" tube with a 3/8" wall with grease fitting. ___ ___
- vi. Plow mounted adjustable cushion valve plumbed to cylinders. Valve to be adjustable (set at 2000 PSI), 10 GPM and to have ½" SEA threads. ___ ___
- vii. A-frame to be welded to a 1" X 5" X 33" base plate with a pivot hole. ___ ___

D. LIGHTS:

- i. Lights to be dual beam halogen with built in marker lights and turn signals. ___ ___
- ii. Lights to incorporate a dual stud mounting posts design. ___ ___
- iii. Lights to come with wiring harness/relay system to automatically switch from truck lights to plow lights when plow is installed. ___ ___
- iv. Lights it have a santoprene over-molded plug that terminates at the grill for ease of detachment. ___ ___
- v. Lights to meet all federal motor vehicle lighting requirement. ___ ___

E. PAINT FOR SNOW PLOW ASSEMBLY:

- i. All surfaces are high-pressure cleaned and degreased with phosphate solution. ___ ___
- ii. Moldboard is to be powder coated orange. ___ ___
- iii. Push frame assembly and hitch components are powder coated black. ___ ___

II. STAINLESS STEEL SALT SPREADER:

- A.** Construction: Stainless Steel construction of body of spreader. ___ ___
- B.** Feed Mechanism: 6" Auger with 3/8" flighting and 5:1 gearbox ratio ___ ___
- C.** Hopper Dimensions: 98" X 19" X 17" ___ ___
- D.** Overall Height: 31.25" ___ ___
- E.** Power Source: central hydraulic system powering two Independent hydraulic motors ___ ___
- F.** Discharges from left or center of body. ___ ___
- G.** 18" Poly Spinner. ___ ___

YES/NO

H. 10-Gauge trough has 3-point hinged bottom cover for easy access to entire auger Assembly and one-person cleanout.

I. Spreads Material: bulk salt; 50/50 Salt/Sand mixture.

J. Sealed, self-aligning 1-1/2" diameter bearing with grease fitting.

K. Low-speed, high-torque orbital motors.

L. Spreads from 6' up to 40'.

M. Hydraulic safety lockout system.

III. CENTRAL HYDRAULIC SYSTEM:

A. HYDRAULIC PUMP: Pump shall be a heavy-duty needle bearing type positive displacement gear pump. Pump to be cast iron three-piece rebuildable Parker PGP020 series gear pump with a flow rate of 17 GPM at 1000 RPM. The pump shall Have a 7/8" 13 tooth spline shaft with and a SAE 4-bolt B mounting flange. The pump shall have a minimum of 1 1/2" I.D. SAE 100-R4 suction line.

B. RESERVOIR/ VALVE ENCLOSURE: The valve/tank assembly shall be 35 gallon nominal capacity and constructed of 10-gauge powder coated steel. The lid shall be constructed of a high density polyethylene with stainless steel reinforcements. The directional control valve must be easily accessible from all (6) sides without the use of tools. A 2" 1/4 turn brass ball valve shall be mounted to the 100-mesh suction strainer. A low oil sending unit shall be mounted in the reservoir and wired to a warning input on the spreader control. The valve tank assembly shall be a FORCE America model VT35G2-B-PP.

C. FILTER: Hydraulic oil filter shall be mounted in the reservoir. Hydraulic filter shall be a 16-micron absolute and rated for no less than 70 GPM. Filter shall be a Zinga model TS1600251S0/ZSRE40910. An electrical filter bypass indicator shall be wired to a warning input on the spreader control.

D. HYDRAULIC CONTROL VALVE:

- i. The control valve shall be a load sensing type with unloader. The hoist section shall be stacked to one side of the mid-inlet and be rated for 40 GPM. All other sections will be stacked on the other side and be rated to 20 GPM. There will be a main relief in the mid-inlet section that will be set at 2000 PSI to protect the system from being over pressurized.

YES/NO

ii. Valve section to be arranged as follows:

1. Hoist 3-way for a single acting cylinder
2. Mid-inlet transition section
3. Plow Lift, 3-way for a single acting cylinder with flow control
4. Plow Angle, 4-way for a double acting cylinder with flow control
5. Spin-A-Veyer section, consisting of two pressure compensated cartridges that are a single piece design with hardened cartridge bores and spools. These shall be operated independently via a 12 VDC pulse width modulated signal. Each valve shall have heavy duty 7/16-20 UNF screw style manual overrides that are adjustable from no flow to full flow. These valves shall be mounted in a housing that is made of aluminum with gray anodizing for corrosion resistance and durability. The auger/conveyor shall be a 15 GPM spool and the spinner shall be a 7 GPM spool. The electrical connections shall be DIN type.
6. The valve shall be FORCE America Add-A-Stack 4020.

_____	_____
_____	_____
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_____	_____
_____	_____

E. VALVE CONTROLS: The valve controls shall be a feathering remote air control with air shift actuators for valve. The hoist control shall be a single axis control with lock in the center position to prevent accidental actuation and be mounted in a tower next to the driver. The plow controls shall be multiple single axis controls stacked together in a swivel pedestal. There shall be a Pressure Protection Valve to protect against loss of pressure in the primary system caused by a broken line or an air leak somewhere in the auxiliary system. There shall also be a FLR (filter, lubricator, and regulator) plumbed into the auxiliary air system to protect the air controls from contamination and being over pressurized.

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F. ELECTRONIC SPREADER CONTROL:

- i.** The electronic spreader control shall include proportional controls for Auger, Spinner and Prewet spreader functions and shall be integrated into a small, rugged, plastic injection molded, control box. The spreader functions shall be operable in manual mode, open loop mode, and closed loop mode.
- ii.** The controller shall be modular in design for ease of installation and service. The controller shall be capable of being mounted anywhere in the cab. A RAM mount shall be used to allow for easy installation and swivel capabilities. Wiring connectors shall be keyed with wiring labeled throughout. The spreader harness shall include DIN connectors that illuminate when the output is active.

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YES/NO

- iii. The controller shall include off the shelf integration with PreCise brand GPS/AVL systems for advanced material logging and maintenance reporting. The controller shall also provide onboard current event and season totals for granular and prewet materials. An integrated USB port shall be used for data retrieval, firmware upgrades, and for loading and saving of calibration settings. ____
- iv. The controller shall include a 3.5” high brightness, color, touch screen LCD with adjustable backlighting. The touchscreen shall be used for calibration only and shall not be needed during normal spreading operation. The electronic spreader control shall be a FORCE America 5100EX. ____

I. MOUNTING AND PAINTING:

- A. All equipment shall be mounted on City specified chassis all within Industry Standards. ____
- B. Unit shall be supplied with lights and reflectors in accordance with FMVSS #108 and all DOT Regulations. ____

II. ASSISTANCE & TRAINING:

- A. Bidder shall provide a minimum of six (6) hours of training and assistance to City personnel on the proper operation and maintenance of the unit. The City will determine if a lesser amount of time is needed for training. ____
- B. At the time of delivery, equipment must meet or exceed all federal, state and local safety, health, lighting and emission standards. ____

III. WARRANTY:

Body and hoist shall be warranted against defects in material and workmanship for a period of one (1) Year from delivery, minimum. Hydraulic plow and Salt Spreader shall be warranted against defects in material and workmanship for a period of (1) Year from Delivery, Minimum. ____

IV. State the time, in days, needed for delivery after receipt of order. _____

V. Bidder shall attach a certificate of insurance from the body manufacturer which indicates that a minimum of \$2,000,000.00 of product liability insurance applies to the equipment supplied in the bid. Bidder shall provide a contact name and phone number for verification of coverage.

- A. Agent's Name: _____
- B. Office Phone: _____

IRAN DIVESTMENT ACT NOTICE

Tenn. Code Ann. § 12-12-106 requires the chief procurement officer to publish, using credible information freely available to the public, a list of persons it determines engage in investment activities in Iran, as described in § 12-12-105.

For these purposes, the State intends to use the attached list of “Entities Ineligible to Contract with the State of South Carolina or any Political Subdivision of the State per the Iran Divestment Act of 2014, S.C. Code Ann §§ 11-57-10, et. Seq.”

While in conclusion on the list would make a person ineligible to contract with the state of Tennessee, if a person ceases its engagement in investment activities in Iran, it may be removed from the list.

If you feel as though you have been erroneously included on this list, please contact the Central Procurement Office at CPO.Website@tn.gov.

NIKKI R. HALEY, CHAIR
GOVERNOR

CURTIS M. LOFTIS, JR.
STATE TREASURER

RICHARD ECKSTROM, CPA
COMPTROLLER GENERAL



OFFICE OF THE EXECUTIVE DIRECTOR

HUGH K. LEATHERMAN, SR.
CHAIRMAN SENATE FINANCE COMMITTEE

W. BRIAN WHITE
CHAIRMAN HOUSE WAYS AND MEANS COMMITTEE

List Date: July 1, 2016

**Entities Ineligible to Contract with the State of South Carolina or any
Political Subdivision of the State per the Iran Divestment Act of 2014, S.C.
Code Ann. §§ 11-57-10, et seq.**

- | | |
|----------------------------------------------|----------------------------------------------|
| 1. Abadan Petrochemical Co. | 36. Petro China Co. Ltd. |
| 2. Aban Offshore Ltd. | 37. Polskie Gornictwo Nafowe I Gazonictwo SA |
| 3. Arak Petrochemical Co. | 38. Royal Dutch Shell Plc |
| 4. Arvandan Oil & Gas | 39. Sepehr Energy |
| 5. Behran Oil Co. | 40. Shiraz Petrochemical Co. |
| 6. Bharat Petroleum Corporation Ltd. | 41. Showa Shell Sekiyu K.K. |
| 7. China National Petroleum Corp. (CNPC) | 42. Tabriz Oil Refining Co. |
| 8. China Petroleum & Chemical Corp. | 43. Total S.A. |
| 9. Cosmo Energy Holdings Company Limited | 44. Toyota Tsusho Corporation |
| 10. Dragon Oil Plc | 45. Tupras Turkiye Petrol Rafinerileri AS |
| 11. Eni Spa | |
| 12. Esfahan Oil Refining Co. | |
| 13. Essar Oil Ltd. | |
| 14. Fanavaran Petrochemical Co. | |
| 15. Farabi Petrochemical Co. | |
| 16. Gail (India) Ltd. | |
| 17. Gazprom OAO | |
| 18. Gubre Fabrikalari T.A.S. | |
| 19. Hindustan Petroleum Corporation Ltd. | |
| 20. Hyundai Heavy Industries | |
| 21. Idemitsu Kosan Co. Ltd. | |
| 22. Indian Oil Corporation Ltd. | |
| 23. JX Holdings, Inc. | |
| 24. Koc Holding A.S. | |
| 25. Lukoil Oil Co. | |
| 26. Maire Tecnimont S.P.A. | |
| 27. Mangalore Refinery & Petrochemicals Ltd. | |
| 28. Mitsubishi Corporation | |
| 29. Mitsui & Co. Ltd. | |
| 30. National Iranian Oil Co. | |
| 31. National Iranian South Oil Co. | |
| 32. Oil & Natural Gas Corporation Ltd. | |
| 33. Pardis Petrochemical Co. | |
| 34. Pars Oil Co. | |
| 35. Parslan Oil and Gas Development Co. | |

Contact irandivestment@nmo.sc.gov with questions regarding this list.

IRAN DIVESTMENT ACT

“By the submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each of a joint bid each party thereto certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not a person included within the list created pursuant to § 12-12-106.”

Signature: _____

Date: _____

Title: _____