

ADVERTISEMENT FOR BIDS

Separate sealed BIDS for the purchase and installation of two (2) new 2020 Flat Gray Dump Boxes and Hydraulic Systems as per specs, for the City of Kemmerer (OWNER) will be received at the Administrative Services Office, City Hall, 220 Wyoming Highway 233, Kemmerer, Wyoming, 83101, until 2 p.m. local time Thursday October 8, 2020, at which time and place said bids will be publicly opened and read aloud.

Bid packets and specifications can be received from the Administrative Services Office, City of Kemmerer, 220 Wyoming Highway 233, Kemmerer WY 83101.

If, at the time the bid is to be awarded, the OWNER determines that the amount of funds available is sufficient to finance the purchase, the bid may be awarded to the lowest responsible BIDDER. Determination of the lowest responsible BIDDER shall take into account all applicable provisions of Wyoming Statutes 1977, as amended.

The contract shall be awarded to the responsible certified resident bidder (as defined by Wyoming Statutes) making the lowest bid if the certified resident's bid is not more than five percent (5%) higher than that of the lowest responsible non-resident bidder. The City of Kemmerer also has a local preference policy. A local business may receive a local preference on all applicable purchases subject to City Council consideration of other factors:

The following terms will be defined as indicated.

1. Any business physical located in Lincoln County, Wyoming and within 50 miles of Kemmerer City Hall.
2. Local preference: any qualified, responsible bidder as determined by the City Council, whose bid on an applicable purchase is within 5% of the lowest, qualified, responsible bid will be considered the low bidder.
3. Applicable purchase: any purchase by the City of Kemmerer which is required to be bid under Wyoming State Statutes.
4. Other factors: means availability of goods, services, and maintenances.

The City of Kemmerer reserves the right to reject any and all bids, to waive any informativity in bids and to accept any bid or bids deemed to be in the best interest of the City of Kemmerer. Bids must be original, signed, sealed bids on our forms. Faxed bids will not be accepted. Bids may not be withdrawn after the time fixed for opening them and remain valid for 60 days.

PUBLISH: September 24th, 2020 and October 1, 2020

Please send Proof of Publication to Glenda Young.

**CITY OF KEMMERER, WYOMING
BID FORM**

The City of Kemmerer will receive original signed, sealed bids on this form at the office of the Administrative Services Director, 220 Wyoming Highway 233, Kemmerer, WY 83101 until 2 p.m. local time, Thursday October 8, 2020, at which time and place the bids will be publicly opened and read aloud for furnishing delivering, and installing two (2) new flat gray dump boxes and hydraulic systems as per the Specifications. **BID IS TO BE IN SEALED ENVELOPE CLEARLY MARKED "2020 FLAT GRAY DUMP BOXES AND HYDRAULIC SYSTEMS – DO NOT OPEN UNTIL 2 P.M. ON THURSDAY, OCTOBER 8th, 2020."**

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

Time, in connection with discount offered, will be computed from the date of completion or from date correct bill rendered on proper form certified by bidder, is received if the latter date is later than the date of completion.

ITEM #	ARTICLE/SERVICE	TOTAL BID PRICE
#1	Two (2) new 2020 flat gray dump boxes and hydraulic systems installed as per specs (attached): Please indicate any differences from specs:	

_____, 20 ____

In compliance with the above, and subject to all conditions, hereof, the undersigned offers and agrees to furnish all items upon which prices are quoted, at the price set, if this bid is accepted within 60 days from the date of opening. The undersigned also agrees to deliver and install the dump boxes and hydraulic systems, within _____ days after notification of the award of the bid to the undersigned. The undersigned certifies that no Federal, State, County or Municipal tax is included in the above quoted prices and that none will be added.

NAME OF BIDDER: _____

BY: _____
Signature Address of Bidder

DATE: _____

PHONE NO. _____

SPECIFICATION FOR DUMP BOXES AND HYDRAULIC SYSTEMS

MINIMUM SPECIFICATIONS

(2) NEW 2020 FLAT GRAY DUMP BOXES & HYDRAULIC SYSTEMS INSTALLED ON CUSTOMER SUPPLIED CAB & CHASSIS AND INSTALLATION OF CUSTOMER SUPPLIED PLOW COUPLERS.

THE BIDDER SHALL COMPLETE EVERY SPACE IN BIDDER’S RESPONSE COLUMN BY MARKING UNDER **YES** OR **NO** TO INDICATE THAT THE ITEM BEING BID IS EXACTLY AS SPECIFIED. ALL **NO** RESPONSES SHALL BE EXPLAINED IN DETAIL ON AN ATTACHED SHEET.

CITY PROVIDED TRUCK CHASSIS CONFIGURATION INFORMATION FOR INSTALLATION

1. 2021 Freightliner 114SD Conventional Truck.
2. Detroit DD13 435hp, 1550 ft. lb.
3. Allison 4500 RDS automatic transmission w/ PTO.
4. Air and Electrical to end of frame.
5. Wiring only for stop, tail, turn, and backup lights to end of frame.
6. Wheelbase to allow C/T dimension of 117” – if your dump box requires different please note that here _____
7. 79” rear frame overhang

CITY PROVIDED SNOW PLOW CONFIGURATION INFORMATION FOR INSTALLATION

1. Henke 41R12IS,PLP,ECT snow plow
2. Parallel lift design that requires hydraulic down pressure
3. Truck side flat plate coupler to be provided by City

DUMP BOX

YES **NO**

1. Dump Box shall be 14’ in length and 96” wide.

2. Dump box shall be designed for the most severe service
And high impact applications and of half-round tub design.
Body shall be fabricated with no flat floor. Radius sides shall
Be 43.5" with overall height from center line to top rail of
47.5" _____

3. Dump box shall have internal dog house to protect
hoist cylinder. _____

4. Dump box shall have an air actuated high lift tailgate with
independent air tank. Air cylinders to be vertically mounted
recessed, and enclosed in rear corner posts with removable
access panels _____

5. Dump box shall have integrated steps on drivers' side
or folding ladder equivalent. _____

6. Dump box shall have combination LED stop/turn/tail lights
rubber mounted in middle rear corner posts. _____

7. Dump box shall have back up lights rubber mounted
in lower rear corner posts. _____

8. Dump box shall have orange flashing beacon lights
rubber mounted in top of rear corner posts. _____

9. Dump box shall have straight rear, can NOT have an
asphalt lip on rear and will have a rear hinge assembly
that is severe duty with 2-7/16" full width pin. _____

10. Dump box shall have full length 10 gauge hi-tensile
integrated formed fenders _____

11. Dump box shall have air release greaseable tail gate latches.
Tailgate shall be 56" high and a 6 panel design which will
function as high lift and shall have 3/8" thick keyhole chain
connector plate banjo eyes for spreader chains. _____

12. Dump box shall have full width 1/2 cab shield positioned
to not interfere with cab mounted beacon light bar. _____

13. Dump box shall be a flat gray color.

HYDRAULICS

1. Hydraulics system shall be driven of LH PTO port on Allison 4500RDS transmission.

2. The power take off (PTO) shall be mounted to an Allison automatic 4500RDS transmission. The PTO shall be a hot shift type. The PTO shall be designed to clear the integrated cooler on the Allison transmission. It shall mount like a standard side mounted PTO with an additional bracket at the rear of the transmission. The output of the PTO shall be extended past the back of the transmission where there is extra space. The main extension shaft and PTO shall be one piece to eliminate the need for input splines between the PTO and extension shaft. The clutch pack shall be located at the back of the transmission in the extension shaft. The input between the extension shaft and the pump shall be a wet spline. The PTO shall be a **Parker Chelsea 890 series** or approved equal.

3. The hydraulic pump shall be an axial piston pressure and flow compensated load-sensing type. The pump shall have a displacement of 5.61 cubic inches per revolution at maximum stroke which will deliver 23.7 GPM @ 1000 engine RPM. The pump shall have a minimum 2" inch suction line and ½" control drain line plumbed directly back to the reservoir. The pumps compensator shall have rear facing adjustments. The pump shall be rated for 5800 PSI maximum and 4800 PSI continuous. The pump shall have a Din type-mounting flange and a Din 5462 8-tooth shaft. The pump shall be **Force America TXV92** or prior approved equal.

4. The hydraulic valve shall be of modular manifold design. Each hydraulic function requires an individual manifold stacked together to form the manifold base. The manifold base shall consist of an inlet section with SAE #16 inlet porting, SAE #20 outlet porting, and SAE #4 load sense porting. There shall be a main system relief in the inlet section to protect the system from high pressure in case the pump compensators fail. The dump body manifold shall be stacked next to the inlet

section, and capable of 40 GPM with SAE #12 porting. The hydraulic control valves shall be pulse-width modulated, proportionally controlled. Each hydraulic valve segment shall be individually mounted to the manifold base assembly and be serviceable without removing any hydraulic hoses or any other hydraulic valve segments. Each hydraulic valve segment shall have individual pressure compensation to achieve independent simultaneous operations. All segments shall have heavy-duty continuous duty coils and connections shall be with Din connectors. All coils shall operate at 12 VDC and require a maximum of 1400 mille-amps. Each segment shall be equipped with a manual override except for the auger and spinner sections. The dump body segment shall be rated to 40 GPM, with all other segments rated to 20 GPM. If a double acting hoist is utilized, the dump body segment shall be equipped with a down side relief to protect the body down function. This relief shall be set to the hoist manufacturer's specifications. Valve segments shall be Force America Add-A-Fold® model or prior approved equal. The valve is to be arranged as follows:

Hoist	3-way valve	
Plow lift	4-way lift valve with integrated power float valve	
Plow angle	4-way	_____

5. The hydraulic reservoir will be of 35 gallons nominal capacity. The hydraulic reservoir will be constructed of 10-gauge steel and be internally baffled. The valve enclosure lid will protect from both road and pressure washer spray. For ease of removal by a single person, the valve enclosure lid shall weigh less than 22 lbs. The valve enclosure lid shall be black high density polyethylene with stainless steel reinforcements. The valve enclosure lid shall have molded integrated handle for ease of removal. The valve enclosure lid shall be attached to the reservoir via (4) rubber straps that can be removed without the use of any tools. Mounting bracket is to be designed and supplied by the reservoir supplier. Mounting system should allow for a 1" frame clearance for frame obstructions. Shall be mounted in a manner as to not transmit any truck torsional loads thru the tank. The enclosure will use a gasket-less passive technology. (No rubber seals, gaskets, or weather stripping.) The enclosure lid will be removable within seconds by one person without the use of tools. All valve fittings, hose ends, filter, filler breather, sending units and any electrical connections are to be protected by enclosure cover. The reservoir

supplier will provide all valve fittings (JIC connections) and plumb the return line from the valve to the filter. The cover will protect from both road and pressure washer spray. The use of bulkhead fittings is not permitted. The directional control valve must be easily accessible from all (6) sides without the use of tools. Hose exit and entrance must allow for components to be mounted adjacent to the enclosure. A 2" full flow brass ball valve shall be plumbed at the suction port of the tank. A low oil/high temp sending unit shall be mounted in the reservoir. The valve/tank assembly shall be a **Force America model "VT35G2 Valve/Tank Assembly"** or prior approved equal.

6. Controls for all valve functions will be integrated into a single, self-contained control center. The control center shall be a padded armrest style that is ergonomically designed. Control center shall be modular in design for ease of installation and service, and wiring and connectors shall be keyed and color coded throughout. A sealed, pre-wired harness for all valve controls must be provided. All components must be durable for long life and trouble free operation.

The electronic controller shall be a fully proportional multi-stick controller to operate all cylinder functions. Multi-stick PWM driver electronics shall include as standard the capability to control at least 9 proportional outputs simultaneously.

Use of a single, 3-axis joystick with pushbuttons in the handle to change joystick operation modes (from Plow to Wing, for instance) is unacceptable, as it presents a safety risk to the operator.

The control shall be a 3-stick, configuration. There shall also be five auxiliary rocker switches available. The switches shall be located behind the joysticks and shall be rated for 15 amps continuous current minimum. Console options shall be capable of supplying full rated power to switch outputs when all four auxiliary switches are at full 15 amp load.

For ease of operation the multi-stick control shall include the following features: LED-backlit nomenclature for all joystick functions and a momentary push-button at the top of the hoist stick to provide hoist-interlock. The "Hoist" decal shall be located near the Hoist joystick, shall be illuminated amber while disabled, and change to green backlighting when the driver engages the hoist interlock button. The green "Hoist"

LEDs shall remain illuminated while the hoist is under operation and shall time-out after a period of hoist inactivity that is selectable from 0 to 15 seconds.

The plow joystick shall have the option to include a momentary pushbutton for activation of remote spreader standby, remote spreader blast, electric joystick interlock, or to activate one of several selectable 12V, 2A outputs for functions such as body vibrator or function toggling. The multi-stick communication hardware/software shall include 4 integral float options. The use of add-on float modules is unacceptable. For flexibility of use the integral float programming shall have the following standard features:

- a. (4) axis functional float on any or all of the outputs with selectable forward/back, right/left functionality
- b. 3-way or 4-way float functionality
- c. Selectable (3) second float delay timer
- d. Optional float enable switch inputs.
- e. When float output for a given joystick function is active, the LED-backlit nomenclature shall blink ON/OFF to provide visual feedback to the operator that the float function is engaged.

To ensure longevity of performance all lighting to be solid-state LED technology. The use of incandescent lamps or EL backlighting is unacceptable.

All function joysticks shall be of contact-less Hall-effect design and offer up to a 5-Million cycle life. The use of potentiometers is unacceptable. Joystick MIN/MAX output duty cycle thresholds, deadbands and error thresholds for each joystick output shall be customizable in the field through a built-in easy to use software interface. Laptops or personal computers shall not be necessary to calibrate the joystick MIN/MAX settings or other system characteristics. Joystick calibration data shall be retained on-board and shall be easily transferrable between joystick system components.

To increase safety of operation, joystick communication hardware/software shall include the following standard features:

- a. Input power monitor circuitry with power quality diagnostics,
- b. Redundant dual-reference joystick signals for each joystick axis
- c. Joystick output open/short circuit detection and operator notification
- d. Joystick input off-center checking on all axes and output shutdown on system power-up
- e. Joystick out-of-range fault condition checking and output shutdown

- f. True outputs off with joystick centered
 - g. LED-backlit nomenclature shall illuminate and flash RED when any error condition exists and an audible alarm shall sound.
- h. LED-backlit nomenclature shall blink ON/OFF with increasing frequency as the corresponding function is increased in speed to give the operator visual feedback of each joystick output.
- i. The joystick control system shall be equipped with a qualified ESTOP device that immediately disconnects battery power from all joystick outputs. All joystick-operated outputs shall immediately cease to function, an audible alarm shall sound, and the joystick system display shall inform the operator that the ESTOP device has been activated. The ESTOP device must remove power from the joystick outputs while maintaining power to the display and CPU for diagnostic purposes. The operator must manually reset the ESTOP device in order to return the joysticks to operational status.
- j. Joystick one closest to driver to control plow lift and turn
- k. Center joystick position to have cover plate
- l. Joystick three closest to passenger seat to control hoist with push button interlock

The Control Center shall be a FORCE America Patrol Commander MPJC Ultra blank series or prior approved equivalent _____

- 7. Plow shall be coupled using 4 station Stucchi coupling installed on the City supplied chassis and plow. _____

- 8. Control arm shall be mounted to driver's seat in manner To allow it to rise and fall with seat. _____

- 9. 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 model **TS1600251S0/ZSRE40910** or prior approved equal and include visual and electrical bypass indicators. The filter cartridge shall be constructed of a synthetic media. The return port in the filter shall be SAE #20 or larger. A warning light shall be mounted in the cab and wired to the electrical filter bypass indicator. The system shall be delivered with one spare filter element. _____

REAR TOW PACKAGE

- 1. Heavy Duty rear buckplate constructed of 3/4 steel, reinforced and welded into rear of chassis frame. _____

- 2. Premier 470A air hitch installed on buckplate. _____
- 3. Chassis supplied gladhands shall be installed in buckplate. _____
- 4. Two (2) 5/8" D-rings shall be installed on buckplate. _____
- 5. Chassis supplied trailer electrical plug shall be installed in buckplate _____
- 6. ICC 3-LED light cluster installed at top of buckplate _____

BEACON LIGHT PACKAGE

- 1. Amber beacon light bar shall be 72" nFuse or approved equal installed on bidder provided steel support bar that will be bolted to the stainless steel roof brackets on each side of City provided truck chassis, and shall be wired into beacon light circuit. Light bar shall be designed high enough to allow visibility on light bar from all sides of the truck. _____
- 2. Flashing light bar shall be installed in top portion of grill of City provided truck chassis and wired in beacon light circuit. Shall be UltraLITE or approved equal. _____
- 3. Flashing LED lights shall be installed on lower mirror bracket on City provided truck chassis and wired in beacon light circuit. Shall be Intersector surface mount light or approved equal. _____
- 4. Flashing amber LED lights shall be rubber mounted in upper Oval light pockets in rear corner of dump box, and wired into The beacon light circuit. Shall be NForce recessed ovals to Match dump box standard cut outs. _____

HENKE PARALLEL LIFT PLOW COUPLER INSTALLATION

- 1. Supply additional metal as need to properly install customer supplied Henke parallel lift plow coupler on customer supplied truck chassis _____
- 2. Supply additional metal as needed to properly secure Stucchi coupler at front of chassis _____

RADIO INSTALLATION

1. City communication radio shall be Motorola CM200D or approved equal and shall be installed in cab of truck in manner to allow easy access by vehicle operator. Shall be Motorola CM200D, 136-174 MHZ 45 watts, 16CH ND analog or approved equal.

2. Communication antenna shall be installed on roof of truck cab in manner not to interfere with beacon lights or dump box cab shield.
