

City of Troy
Bid Specifications for One New Class 5 Chassis Cab with dump bed

SECTION 1: NOTICE TO BIDDERS

The City of Troy, Illinois, will receive sealed bids for furnishing one new Class 5 Chassis Cab with dump bed, for the Public Works Department until **10:00am, July 10th, 2024**, at City Hall, 116 E. Market St, Troy, Illinois, 62294. Bids will be publicly opened and read at that time.

Proposal forms and bid specifications are available on-line at www.troyil.us.

All proposals must be made on the forms furnished by the City, and the entire set of documents submitted intact.

The City of Troy reserves the right to not open a sole bid and to waive, or not to waive, any irregularities in the bids and to determine the lowest and best bid for the work is.

Proposals shall be delivered prior to the time and at the place indicated above. Each proposal shall be placed in a sealed envelope endorsed "PUBLIC WORKS DEPARTMENT CLASS 5 CHASSIS CAB WITH DUMP BED". Only sealed proposals will be accepted. Questions may be directed to Robert Hancock, Public Works Director at (618) 667-4629 or rhancock@troyil.us

SECTION 2: PROPOSAL

Submitted by: _____

TO: The City of Troy, Illinois

Gentlemen:

In submitting this proposal, the undersigned declares that the only persons or parties interested in the proposal as principals are those named herein and that the proposal is made without collusion with any other person, firm or corporation.

The undersigned understands and agrees that if this proposal is accepted, he is to furnish and deliver all the items specified herein in accordance with the requirements herein stipulated, completely assembled for use, and within the time frame indicated below by the bidder.

The undersigned herewith submits his Schedule of Prices for furnishing and delivering said equipment per the stated delivery schedule. He further understands that all information requested on the Schedule of Prices be furnished or be subject to possible bid rejection for irregularities.

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I, the undersigned, agree to deliver the equipment herein specified within _____ days of the date of award by the City.

Name of Bidder: _____

(Company Name)

By: _____ Title: _____

Address: _____

Phone: _____

TRADE-IN: NO TRADE

| | | | |
|--------------------|--|---------------------|--|
| YEAR | | ENGINE | |
| MAKE | | TRANSMISSION | |
| MODEL | | CAB | |
| VIN | | 4 X 4 | |
| MILEAGE | | BODY | |
| CONDITION | | GVWR | |
| ACCESSORIES | | | |

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SCHEDULE OF PRICES

PUBLIC WORKS DEPARTMENT CLASS 5 CHASSIS CAB WITH DUMP BED

| | |
|---|--|
| <i>Price for Class 5 Chassis Cab with dump bed:</i> _____ | |
| <i>– Trade-in allowance</i> _____ | |
| TOTAL BID: _____ | |

Make: _____

Model & Year: _____

Warranty Periods:

Power Train: _____

Complete Unit: _____

GENERAL:

1. It is the intent of these specifications to describe a Class 5 Chassis Cab with dump bed in sufficient detail to secure quotes on comparable equipment. All parts not specifically mentioned, which are necessary to provide a complete and operational Class 5 Chassis Cab with dump bed, shall be included in the bid and shall conform in strength and quality of material and workmanship to what is usually provided to the trade in general.
2. The unit shall be equipped with all standard equipment as specified by the manufacturer for this model, and shall comply with all EPA emissions standards and all motor vehicle safety standards as established by the U.S. Department of Transportation regarding the manufacture of motor vehicles.

WARRANTY/REPAIR/PARTS AND SERVICE:

1. Since the continuous operation of this equipment is of the utmost importance and sometimes of an emergency nature, it is necessary that the selected company be in position to render prompt parts and service. The selected company shall be able to provide warranty service and maintain and/or have access to parts inventory within 50 miles of Troy, IL. Said parts inventory shall be of sufficient size and variety to offer a level of parts availability 95% within 48 hours from time of order by the customer. Availability of normal maintenance items shall not exceed 24 hours. Quotes shall include proposed program for parts and service availability, which will be used in determination of proposal.

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| CHASSIS/CAB | Meets specification | |
|---|----------------------------|-----------|
| | Yes | No |
| 1. ALL STANDARD EQUIPMENT, NO DELETIONS | | |
| 2. 4 X 4 MANUAL SHIFT REGULAR CAB | | |
| 3. 6.7 TURBO DIESEL ENGINE (or equal) | | |
| 4. DUAL REAR WHEEL | | |
| 5. 4.88 LIMITED SLIP AXLE | | |
| 6. AUTOMATIC TRANSMISSION WITH OVERDRIVE AND AUXILIARY OIL COOLER WITH PTO FOR HYDRAULIC SYSTEM | | |
| 7. 84" CAB TO AXLE (LONG WHEELBASE) | | |
| 8. POWER LOCKS/WINDOWS | | |
| 9. CHROME BUMPERS, CRUISE CONTROL, TILT, AM/FM/CD/MP3, , BLUETOOTH FOR HANDS FREE COMMUNICATION | | |
| 10. STABILITY CONTROL SYSTEM | | |
| 11. TRAILER TOW PACKAGE | | |
| 12. INTEGRATED TRAILER BRAKE CONTROLLER | | |
| 13. FACTORY UPFITTER SWITCHES | | |
| 14. PLATFORM RUNNING BOARDS | | |
| 15. 225/70R19.5G BSW TRACTION 4X4 TIRE | | |
| 16. STAINLESS STEEL WHEEL COVERS | | |
| 17. EXTRA HEAVY DUTY FRONT SUSPENSION | | |
| 18. SNOW PLOW PREP PACKAGE | | |
| 19. PAYLOAD PLUS UPGRADE GVWR 19,500LBS | | |
| 20. EXTERIOR PAINT: OXFORD WHITE | | |
| 21. INTERIOR: 40/20/40 SPLIT VINYL BENCH SEAT | | |
| 22. VINYL FLOOR | | |

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| CHASSIS/CAB | Meets specification | |
|---|----------------------------|----|
| | Yes | No |
| 23. TWO (2) 15" LED MINI LIGHT BARS ROOF MOUNTED ON AN ALUMINUM ACTION BAR. EACH MINI LIGHT SHALL BE AMBER AND WHITE. ALL WARNING LIGHTS ACTIVATED ON ONE UPFITTER SWITCH | | |

| BODY | Meets specification | |
|---|----------------------------|----|
| | Yes | No |
| 1. 3-4 YARD DUMP BODY 11FT LONG X 96 INCHES WIDE O.D. (FOR CHASSIS WITH 84" CAB TO AXLE LENGTH) <u>DUMP BODY PANTED RED.</u> PAINT CODE CG1017 UNDERSTRUCTURE, 7 INCH X 3/16 INCH X 100 PSI STEEL FORMED LONGSILLS WITH NO CROSS MEMBERS | | |
| 2. 24-INCH-HIGH FRONT PANEL WITH REINFORCED TOP LIP | | |
| 3. ¼ TYPE CABSHIELD WELDED NOT BOLTED WITH WINDOW | | |
| 4. 10 GA CARBON STEEL BODY WITH 3/16 INCH AR450 STEEL FLOOR WITH 2 INCH RADIUS FLOOR TO SIDE AND CONTINUOUS WELD AT CONFLUENCE OF SIDES AND FLOOR. REINFORCED REAR FLOORING ANGLE TO PROHIBIT DEFLECTION, MAINTAINING GATE SEAL. | | |
| 5. 18 INCH HIGH SIDES WITH 2X10 BOARDS CUT AT 40 DEGREE ANGLE AT REAR OF BODY | | |
| 6. FULLY BOXED TOP RAIL WITH FULL DEPTH REAR CORNER POST EQUIPPED WITH 6 INCH FRONT AND REAR EXTENSION POCKETS | | |
| 7. 24-INCH-HIGH TAILGATE WITH HEAVY DUTY CAST QUICK RELEASE TOP HARDWARE, DOUBLE ACTING WITH LONG CHANES AND TWO SETS OF BANJO EYES. BEHIND THE CAB TRIP LEVER ON THE LEFT SIDE | | |

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| BODY | Meets specification | |
|---|---------------------|----|
| | Yes | No |
| 8. 9 TON UNDERBODY HOIST | | |
| 9. POWER TAKE OFF: | | |
| <ul style="list-style-type: none"> - Power Take off (PT) shall be constructed of cast iron and must be a two-piece design to assist with installation, 1-piece design will not be accepted. - PTO shall be compatible and capable of mounting to manufactures 10-speed electronic automatic transmission equipped PTO access. - PTO shall be of Hot Shift design and have a direct mount flange for the hydraulic pump. - PTO speed shall be a ratio of 144% of engine speed and mount with a controlled compression interface gasket to eliminate backlash settings. - Unit shall have a single hose connection and integrated cartridge valve design for shifting. - Unit shall have a provision for electronic over speed control. - Parker/Chelsea model 210 series no exceptions. | | |
| 10. HYDRAULIC GEAR PUMP: | | |
| <ul style="list-style-type: none"> - Hydraulic pump shall be gear pump design with aluminum housing and direct mount flange. - Pump shall be capable of 9 GPM and 3200 PSI at 1200 engine RPM. - Pump shall be bolt-together designed body. - Pump shall have rear ported O-ring ports and a 3/4"-11 tooth shaft. - Parker/Chelsea model CGP-P11 no exceptions. | | |
| 11. SNOWPLOW CUSHION VALVE: | | |
| <ul style="list-style-type: none"> - A double relief cushion valve must be installed for the plow angle. - The valve shall be set at 2000 PSI and have #8 SAE o-ring ports. - The valve shall be constructed of a high-tensile cast iron body with ball and spring style relief that has hardened seat. - The valve shall be plumbed at the front of the truck for snowplow angle. - Certified Power model DRV5HH no exceptions. | | |

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| BODY | Meets specification | |
|--|---------------------|----|
| | Yes | No |
| 12. HYDRAULIC RESERVOIR: | | |
| <ul style="list-style-type: none"> - Reservoir shall be 15-gallon minimum with breather cap, magnetic drain plug and suction screen. - Fill neck must be screened, and a sight/temperature gauge mounted on the reservoir so easily visible for inspection. - Symmetrical side ports to allow mounting on either side of truck frame - Suction screen to be 1 ¼" NPT with built in bypass. - Bottom suction is not acceptable. - Tank must have mounting for tank mounted return line filter. - Certified Power MTRA1215 is acceptable. | | |
| 13. HYDRAULIC RETURN FILTER: | | |
| <ul style="list-style-type: none"> - Filter shall be top tank mounted type 10 microns with a by-pass and replaceable cartridge element. - Filter shall be capable of 40 GPM flow capacity. - Filter shall have one 1" NPT port. - A bypass condition indicator is required. - Certified Power model TIF-08-10-G is acceptable | | |
| 14. HYDRAULIC CONTROL VALAVE: | | |
| <ul style="list-style-type: none"> - Hydraulic valve shall be a cast iron mobile stack valve. - Valve shall be capable of 30 GPM and 3500 PSI. - Control valve shall be mounted in a sealed valve enclosure with rubber straps to remove lid. - The Inlet and Auger ports will be #12 SAE. The Tank port will be #12SAE. - The Hoist and Spinner ports will be #10 SAE. - All ports will allow the use of standard ORB to JIC fittings. - All Coils 12VDC encapsulated with AMP Jr. Connections. <p>Cartridge valve design will not be accepted.</p> | | |

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The valve functions will include:

- The valve shall be of a mobile stackable design load sensing type.
- The valve shall be all cast iron design and all sections must be of the same valve series.
- The valve must be pressure and flow compensated.
- Inlet and outlet ports to be 1" o-ring, all working ports shall be 5/8" o-ring minimum.
- Valve to be arranged as follows:
 - Inlet cap with top ported pressure and tank, load sense and drain ports.
 - Double acting cylinder spool for hoist 0-6.6 GPM, proportional 12VDC operated, with spring return to neutral. Section shall have manual handle overrides with stroke limiters and 500 PSI down side load sense relief.
 - Pressure reducing section set at 2000 PSI.
 - Double acting cylinder spool for plow lift, proportional 12VDC operated with spring return to neutral. Pressure compensated 0-2.6 GPM main spool. Section shall have manual handle overrides and stroke limiters.
 - Double acting cylinder spool for plow Angle, proportional 12VDC operated with spring return to neutral. Pressure compensated 0-2.6 GPM main spool. Section shall have manual handle overrides and stroke limiters.
 - Single acting 0-16 GPM spool for feeder, proportional 12VDC spring to center with manual override.
 - Single acting 0-7 GPM spool for spinner, proportional 12VDC spring to center with manual override.
- Spreader sections shall be part of a manifold assembly that has a pressure reducing valve and solenoid drain and has the ability to have a cartridge added for anti-ice applications.
- Aluminum manifold cartridge valve design is not acceptable.
- Certified Power PVG32 valve no exceptions.

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“TPE” Wiring Specification:

- Wiring and harness system should meet ISO rating IP68 and NEMA 6.
- The connectors should be zinc die cast E-coated, similar to a MIL spec connector.
- Each should have three sealing points- the lock ring itself, a raised portion of the molded plastic around each pin, and a Viton O-ring that seals the whole connector.
- The cable jacket should be TPE- thermoplastic elastomer and molded to the connectors.
- Connectors and harness should be rated and tested for a temperature range from – 30C to + 70C.
- Connectors should be tested to be watertight when submerged in 6’ of water for 24 hours, in 275’ of water for 1 hour, and when subjected to a 1000-psi pressure wash.
- The connectors should be designed to have NO corrosion after 500 hours in a 35C salt spray.
- Cabling should be rated excellent in low temperature flexibility and in its resistance to oxidation, heat, oil, weather, sun, ozone, abrasion, electrical priorities, flame, water, acid, alkali, gasoline, benzol, toluol, degreaser solvents, alcohol, and weld slag.
- All cabling for the hydraulic system and pre-wet system must be this style, Certified Power only.

Freedom 2.0 Spreader Control:

- Control to have 3 PWM output channels
- 1 channel shall be ground speed-oriented conveyor/spreader, 1 channel for spinner, and 1 channel for a liquid function.
- Liquid function shall be configurable to control either a pre-wet or anti-ice function
- Control to have a simple operator interface consisting of 3 buttons, two knobs and an interactive touch screen.
- Knobs to be rotary encoders with no maximum or minimum limit position.
- Programming of unit shall not require the use of an ancillary device
- Touch screen shall be used for calibration of the unit and setting pre-wet.
- There shall be a USB port on the side of the unit for data download if option is selected
- USB shall also function as an upload port to allow field upgrade of the software or capabilities of the system, shall also be used for saving or restoring configuration and calibrations.
- Unit shall be available in 3 versions, and software shall be available for purchase to allow unit to be reconfigured to any version.
- Unit delivered shall be Freedom 2.0 as manufactured by Certified Power
- To prevent glare at night, there shall be a “night mode” for the touch screen

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| <ul style="list-style-type: none"> - The unit shall be supplied with 8MB of RAM and 4MB of flash memory - The front panel shall be backlit for night viewing - There shall be a field replaceable fuse to protect the system. Fuse shall be easily accessible. - Help screens for troubleshooting and calibration shall be embedded in the on-board software. - The system shall support a remote blast and remote pause functions. - Control shall be closed loop with automatic open loop with sensor failure. - PWM circuits shall be current regulated to reduce hysteresis - There shall be an input to sense a stall of the spreader - A float input circuit shall be provided to turn off liquid system at low level - The control must have a FIRST guide for calibration which takes you step by step through the complete calibration process. <p>The control must have a diagnostic feature that shows sensor voltage, battery voltage, current for all outputs, and output duty cycle for each channel versus target.</p> <ul style="list-style-type: none"> - Storm totals shall be available either on screen or via USB download - Unit dimensions shall be approximately 7.8L, 4H, 3.8 D - Spreader control shall be mounted in a factory-made control console that also controls the functions for Body, Plow, and Scraper. - Certified Power Freedom 2.0 no exception. | | |
|--|--|--|

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| BODY | Meets specification | |
|---|---------------------|----|
| | Yes | No |
| 15. CONTROL CONSOLE: | | |
| <ul style="list-style-type: none"> - Console shall have integrated mount for the Freedom 2.0 spreader control - Shall be a single electronic joystick for Hoist up/down, plow up/down and plow left and right. - The joystick mount will allow the joystick slide on to the head rest mount of the seat, no exceptions. - Unit shall come with full schematic documentation. - Certified Power Lampry jump seat joystick, no exceptions | | |
| 16. HYDRAULIC HOSES: | | |
| <ul style="list-style-type: none"> - All hoses shall be properly rated for pressure of hydraulic system. - All hose ends connecting to valve assembly shall be 90-degree female JIC swivel. - Suction Hose shall be 1.25" ID SAE 100R4 style, connecting the pump and reservoir with a king nipple, with both ends being double clamped with T-bolt style stainless steel super clamps. - Pressure hose shall be 3/4" ID 2000 PSI rated with female JIC swivels at both ends. - Return line shall be 1" ID SAE 100R4 style with female JIC swivels at both ends. - Hoist lines shall be 3/4" ID 2250 PSI rated with female JIC swivels at both ends. - Plow lines 1/2" ID 2250 PSI rated, ran to front of truck with female JIC swivels at both ends. - Auger line shall be 3/4" ID 2250 PSI rated and have female JIC swivels at both ends. - Spinner line shall be 1/2" ID 2250 PSI rated and have female JIC swivels at both ends. - Spreader return line shall be 1" ID SAE 100R4 style with female JIC swivels at both ends. - Pump case drain shall be 3/4" ID minimum 2250 PSI rated and have female JIC swivels at both ends. - Load sense line shall be 3/8" ID 2250 PSI rated and have female JIC swivels at both ends. | | |

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|--|---------------------|----|
| | Yes | No |
| 17. FEDERAL #108 LIGHTING | | |
| 18. MUD FLAPS IN FRONT OF AND BEHIND REAR WHEELS WITH ½ POLY FENDERS | | |
| 19. RETRACTABLE STEP LADDER ON DRIVER SIDE IN FRONT OF REAR WHEEL WITH STEP ON DUMP BED | | |
| 20. BACK-UP ALARM | | |
| 21. TWO (2) AMBER/WHITE LED LIGHTS MOUNTED IN THE CORNER POSTS AND TWO (2) AMBER/WHITE LED LIGHTS ON THE OUTSIDE OF THE CABSHIELD FACING REARWARD. ONE (1) WHITE LED SPREADER LIGHT. ALL WARNING LIGHTS ACTIVATED ON ONE UPFITTER SWITCH | | |
| 22. ½ INCH THICK HITCH PLACT WITH CLASS 5 RECEIVER TUBE, D-RINGS, FEMALE TRAILER PLUG, PINTLE ADAPTOR AND 2-5/16 ICH BALL/PINTLE HITCH | | |
| 23. ACCESSORIES: | | |
| <ul style="list-style-type: none"> - ONE WESTERN SNOWPLOW PACKAGE MODEL UTPP90, 9 FOOT PRO-PLUS, ULTRAMOUNT STYLE WITH LIFT MOUNT, A-FRAME, QUADRANT, 12 INCH POWER ANGLING RAMS, ULTRAMOUNT SNOWPLOW LIGHT KIT, OPERATED FROM THE PTO HYDRAULIC SYSTEM | | |

