ADDENDUM NUMBER THREE
BID E-2-21

To: All Prospective Bidders and all others concerned

From: City of Cheyenne, Purchasing Manager, TJ Barttelbort

Date: September 21, 2020

Subject: Addendum Number Three to Bid E-2-21 for furnishing One (1) New 2020-2021 Patch Truck for the City of Cheyenne Street and Alley Department

The changes, clarifications, omissions, additions, and/or alterations in, on, and to the bid information and specifications shall apply to the Invitation For Bid submitted for and to the project indicated above. Except as modified by this Addendum Number Three, all of the terms and provisions of the Invitation for Bid for the above listed project remain in full force and effect. This Addendum Number Three supersedes all previous instructions pertaining to the items listed:

Clarifications:

1. Bid Specifications have been updated. Bidders shall use the Specifications included with this Addendum Three for their Bid Submission.

Questions & Responses:

Q1: Page 14 Main Body #4 (Question/Deviation)
I think this exceeds bid specifications, but wanted to make sure. Our product is welded instead of bolted. This prevents any water leakage. Would the city accept welding in addition to bolting?

A1: Addendum 1, Page 7, Main Body #4. The City will accept welded. Specification has been updated.

Q2: Page 15 Heating System #2 (Exception/Deviation)
We would like to propose Dry Radiant Heat with dual burners. Heat transfer oil systems need to have the oil changed frequently (2 times a year or more). Our system does not require the expense of changing 120 gallons of oil multiple times a year.
Would the city accept a Dry Radiant Heating system?

A2: Addendum 1, Page 8, Heating System. Specification remains unchanged.

Q3: Page 18 Hydraulic System #2 (Exception)
Would the city accept a gear pump.

A3: Addendum One, Page 11, Hydraulic System, #2. The City will accept a gear pump. Specification has been updated.

Q4: Page 18 Hydraulic Doors #1 (Question)
This might be the same thing, we call our doors two piece bi-fold.

A4: Addendum One, Page 11, Hydraulic Insulated Doors. Bi-fold doors will be accepted. Specification has been updated.

Q5: Page 19 Release agent system #1 (Exception)
We do not offer an automatic spray system. We feel (through experience) that an automatic spray system has the potential to create an extremely dangerous environment. If diesel fuel were to be sprayed and left and the burners ignited while fumes were present with a closed lid, the truck in essence could become a bomb. We provide a front walkway for ease of access to spray down the hopper. We feel that this process should be done manually to prevent accidents.

A5: Addendum One, Page 12, Release Agent System. The Release Agent System shall be an option. Please indicate whether or not you are able to provide this system, and provide a price option if you are able. A place to provide the pricing is included in the Bid Specification on Page 13. Bidders are instructed not to include the pricing for the Release Agent System with their Bid Guarantee.

Q6: Page 19 Hydraulic Lift for Roller (Question/Exception)
The multiquip V305EH roller is very large and heavy. It would be better used with the city’s larger (class 8+) dump trucks. We feel that a roller this size would prematurely damage both the body and frame of the truck being bid. We would like to recommend a Bomag BW55E or similarly sized unit. We will not provide the V305EH with our unit to protect it from damage.


ADDENDUM THREE ACKNOWLEDGED:

BY__________________________________ TITLE____________________________________
(Addendum must be signed and returned with bid or receipt of the addendum must be acknowledged on the Invitation to Bid).
REVISED ADDENDUM THREE SPECIFICATIONS

Bidders shall select Y to indicate YES to meeting the Line Item Specification/Scope of Work, or N to indicate NO to meeting the Line Item Specification/Scope of Work. Bidders shall submit any Bid Exceptions or Substitution Requests in accordance with the instructions on Page 1 of this Bid. If a Bidder does not indicate Y or N on a Line Item, the City will assume that you do not meet the Line Item Specification/Scope of Work Description. Bidders are instructed to return the marked Line Items Specifications with their Bid Submission for review by the City.

MINIMUM SPECIFICATIONS FOR ONE NEW 2020-2021 PATCH TRUCK FOR THE CITY OF CHEYENNE STREET AND ALLEY DEPARTMENT

GENERAL SPECIFICATIONS

Y N 1.  GVWR – 52,00Lbs.
Y N 2.  GVWR front axle - 12,000 with wide-track 71.5” from center of kingpin to center of kingpin and shock absorbers.
Y N 3.  GVWR Rear axle - 40,000
Y N 4.  Cab to Axle/Trunnion – 138 inches
Y N 5.  Overhang trunnion to end of frame 80 inches
Y N 6.  Frame RBM (each channel) 2,100,000
Y N 7.  Rear suspension, tandem, Hendrickson HMX Haulmaxx, 54 inch spacing with shock absorbers
Y N 8.  Hubs to be iron only.
Y N 9.  Gear ratio to be decided by company that is awarded the bid and the Fleet Maintenance Director.
Y N 10. Brakes to meet current federal stopping requirements.
Y N 11. Full air brakes
Y N 12. Brake chambers, spring, both rear axles parking.
Y N 13. Pull cable type drain valves for air tanks.
Y N 14. Parking brake controlled by yellow knob, located in instrument panel or dash.
Y N 15. Spring brake modulator valve.
Y N 16. Brakes (front) = Disc HD. Severe service rotors and brake pads.
Y N 17. Brakes (rear) = Disc HD, Severe service rotors and brake pads.
Y N 18. ABS Antilock brake system, 6S6M and electronic traction control.
Y N 19. Bendix heated air dryer with spin on filter cartridge. **WABCO System Saver Spin On System will be accepted. If WABCO System is provided, diagnostic software must be provided to Fleet Maintenance.**
Y N 20. U-joints minimum 1710
Y N 22. Fuel tank- 50 gallons with fuel cooler installed in system.
Y N 23. Engine to be 8.9L Cummins, 300 H.P. and most torque available for this engine size and must meet current year emission standards.
Y N 24. Oil filter to be spin on type.
Y N 25. Antifreeze to be permanent or long life to -30 degrees Fahrenheit.
Y N 26. Fan clutch to be air operated and automatic, **with override switch mounted in dash.**
Y N 27. All coolant hose to have constant torque clamps. Crimp style will not be accepted.
Y N 28. Transmission, Allison 3000 RDSP, close ratio, shift energy management with push button controls mounted in dash.
Y N 29. Road speed with cruise to be 65 m.p.h.
Y N 30. Road speed with accelerator to be 70 m.p.h.
Y N 31. Overdrive and PTO provision.
Y N 32. Transmission temp gauge in dash.
Y N 33. **3 Heavy Duty 12V Batteries with 2100 Cold Cranking Amps Total**
Y N 34. **Engine Block Heater to be 115V/1000W**

**CAB**
Y N 1. Must have a driver and passenger air ride seat with seat belts.
Y N 2. Rubber floor covering
Y N 3. Cab to be severe service with thermal insulation package.
Y N 4. Mirrors to be power adjustable, Heated and have a brake away feature. Must have a 6-inch convex mirror mounted underneath on both sides.
Y N 5. Heater, Defrost and Air Conditioning system with low, medium and high speeds. Condenser to be mounted in front of radiator.
Y N 6. Steering column to be tilt and telescoping with power steering.
Y N 7. AM/FM radio with two speakers and antenna.
Y N 8. Circuit breakers to be auto reset which replaces all fuses except 5 amp and lower.
Y N 9.  Grab handles mounted on left and right side of cab for three points of contact upon entering or exiting.

Y N 10.  All maintenance task can be completed without removal of a doghouse. There must be adequate space at rear of engine to remove valve cover, engine brake, run overhead or remove cylinder head if needed.

Y N 11.  Dual air horns with snow shield mounted on top of cab and a electric horn

Y N 12.  Back up alarm – 107 DBA

Y N 13.  Sun visors driver and passenger side with sun visor mounted above windshield outside of cab.

Y N 14.  Tilt hood

Y N 15.  All glass tinted, must have rear window.

Y N 16.  Variable windshield wipers with washers.

Y N 17.  PTO switch mounted in dash with light to show that it is on. Switch to be provided by OEM and used by body company.

GAUGES

Y N 1.  Engine oil pressure, fuel level, primary and secondary air pressure, speedometer with one trip odometer, engine hour meter, voltmeter and water temperature. Odometer, trip odometer, voltmeter, engine hour meter gauges may be mounted in Driver Information System.

LIGHTS

Y N 1.  Marker, tail, turn and stop lights to be LED with sealed electrical connections.

Y N 2.  Headlights to have high and low beams.

Y N 3.  LED strobe lights installed in head lights. Two (2) 4” Rectangular LED Amber Strobe lights mounted in grill of truck, wired to switch in cab on ignition power.

WHEELS

Y N 1.  8.25-inch wheel, hub piloted, and severe service.

Y N 2.  All hubs to be iron

TIRES

Y N 1.  11R x22.5, 14 ply
Y N 2. Street tread on front and rear axles.
Y N 3. One wheel and street tread tire for spare.

EXHAUST SYSTEM
Y N 1. Vertical exhaust with vertical tailpipe, and stack guard. Maximum height is 6 inches above the cab of vehicle.

PAINT
Y N 1. Cab, hood, and patch body to be standard production color nearest “fawn Metallic C8226A” urethane paint.
Y N 2. Frame to be black.
Y N 3. Front bumper to be grey, black or silver with orange maker poles mounted on both ends.
Y N 4. Wheels to be painted white.

SAFETY EQUIPMENT
Y N 1. 10-pound fire extinguisher. (A, B, C mounted in cab before delivery)
Y N 2. One set of emergency warning triangles mounted in cab before delivery.
Y N 3. First aid kit mounted in cab before delivery.

TWO WAY RADIO
Y N 1. Dealer shall furnish install, and program 2-way radio, 45 watt and 3dB gain antenna that is narrow band capable, Motorola XPR5350 digital or approved equal programmed with the following channels: Street and Alley repeater RX: 152.975 PL 156.7 TX: 159.555 PL 156.7 and Street and Alley TX & RX:158.76000 PL 156.7 .

MANUALS
Y N 1. 1 complete set of service manuals
Y N 2. 1 complete set of engine service manuals
Y N 3. 1 complete set of electrical and wiring schematic manuals. Electrical & wiring schematics may be provided using a web based program, to include “PartsPro”.
Y N 4. 2 operation and maintenance manuals
Y N 5. D.O.T. certification, to include sticker and Vin # on lower edge on both cab doors.
TRAINING
Y N 1. Training on use of the computer program and software with a minimum of one-year subscription for software and online support to be with vehicle at time of delivery for engine, transmission, and ABS system.

ELECTRONIC PROGRAMMING FOR ENGINE AND TRANSMISSION
Y N 1. Engine regeneration for emissions
a. Engine should regen at idle.
b. Engine should regen in PTO mode.
c. Engine should be programmed for in town driving operation at City of Cheyenne, Wyoming altitude.
d. All the latest software updates must be done on vehicle before delivery

WARRANTY
Y N 1. Two-year warranty and 100,000 miles on complete unit and free towing while under warranty. This must cover parts and labor and are not prorated.

TITLE
Y N 1. Title must be made out to the City of Cheyenne, 2101 O’Neil Ave. Cheyenne, Wy 82001 and delivered with the vehicle to the City Fleet Maintenance Shop, 2731 Old Happy Jack Rd, Cheyenne, Wy.

ADDITIONAL BID OPTIONS
Bidders shall provide a price option for the following items. Bidders shall not include the cost of this line item option in their Bid Guarantee. Please provide pricing, on Page 2 of this bid.

ABI 1. Extended warranty for engine and aftertreatment for 5 years.
ABI 2. Back up sensors.
MINIMUM SPECIFICATIONS FOR NEW AUGER DISPENSED PATCH BODY MODEL THERMO-LAY UD 625-120 WITH ROLLER AND LIFT FOR ROLLER OR APPROVED EQUAL.

DIMENSIONS
Y N 1. Body 142 L x 78 W x 43 H
Y N 2. Height above ground 98
Y N 3. Cab to trunnion required 138
Y N 4. Wheel base 204
Y N 5. Body weight empty 7,220

WEIGHT
Y N 1. Body weight empty 7,220
Y N 2. Empty front axle weight 6,965
Y N 3. Loaded front axle weight 7,940
Y N 4. Empty rear axle weight 9,450
Y N 5. Loaded rear axle weight 33,875
Y N 6. Meets federal DOT single axle 19,875

MAIN BODY
Y N 1. Hopper capacity 6.25 cubic yards
Y N 2. Insulation thickness 2 inches
Y N 3. Insulation type High Temperature Polystyrene
Y N 4. Exterior insulation skin type Bolted, 16 Gauge Steel. Welded will be accepted.
Y N 5. Body construction 3/16 HR Plate
Y N 6. Hopper slope 45°
Y N 7. Tool box location Built-In Left Side
Y N 8. Tool box size 102 L x 22 D x 8 H

LIGHTING SYSTEM
Y N 1. System type Sealed
Y N 2. Light type LED
Y N 3. Number of lights 13
Y N 4. Number of large stop, turn, tail 4
Y N 5. Number of red clearance lights 7
Y N 6. Number of amber clearance lights 4
Y N 7. Includes common junction box
Y N 8. Replaceable LEDs for ALL
Y N 9. No splices or tees
Y N 10. 2 front and 2 rear work lights

**DISPENSING SYSTEM**

Y N 1. Auger-screw conveyor dispensing system
Y N 2. Auger pipe size and thickness 2” SCH XX - Heavy
Y N 3. Conveyor size 6” diameter - 3” Flights
Y N 4. Conveyor to be hard surfaced
Y N 5. Two conveyor bearings
Y N 6. Conveyor drive mechanism hydraulic motor
Y N 7. Delivery chute degree of pivot 120°
Y N 8. Auger trough liner made of 3/16” T1 Plate

**CONVEYOR DRIVE MOTOR**

Y N 1. Conveyor drive motor 2 speed
Y N 2. Conveyor drive motor to be automatic
Y N 3. Conveyor drive reversible
Y N 4. Speeds & torque for conveyor drive motor 7,800 Inch/Pound & 120 RPM to 3,700 Inch/Pound & 240 RPM

**HEATING SYSTEM**

Y N 1. Main body heat system type Radiant heat transfer oil
Y N 2. Heat transfer oil capacity 120 gallons
Y N 3. Operating hours heat source Propane burner
Y N 4. Non-operating hours heat source 9 KW electric heater
Y N 5. Two thermostats used to control heat
Y N 6. Digital 3/4” display Radiant oil temperature thermometer type
Y N 7. Horizontal fuel container frame mounted
Y N 8. 38 gallons fuel container capacity
Y N 9. Fuel container indicator location Exterior / drivers' side
Y N 10. Number of propane burners 1
Y N 11. Dual stage burner
Y N 12. 10 ounce & 10 PSI Dual stage pressures
Y N 13. 350,000 @ 10 PSI Burner BTU output
Y N 14. Automatic 12V DC Burner ignition type
Y N 15. Pilot-less ignition
Y N 16. Automatic re-ignition
Y N 17. Burner stops when fluid is dispensed
Y N 18. Digital 3/4” display thermostat
Y N 19. High temperature, loss of flame, fluid dispensing Safety shut-offs
Y N 20. Conduit throughout method for wiring

**ELECTRIC HEATER**
Y N 1. One electric 9 KW heater 230/240 Voltage single phase
Y N 2. 250° heating capability above ambient temp operated by same thermostat as propane burner
Y N 3. 40 amps, 230/240V AC single phase current used during operation

**THERMOSTAT**
Y N 1. Two thermostats ¾ inch digital display
Y N 2. Thermostat operates both propane burner & electric heater
Y N 3. Includes ability to show actual temperature
Y N 4. Radiant oil temperature thermometer type digital 3/4” display
Y N 5. Radiant oil thermometer location rear drivers’ side

**TEMPERATURE TIMED CONTROL**
Y N 1. Solid state
Y N 2. 24 Hour - 14 Day time length duration
Y N 3. Automatically controls Day Temperature
Y N 4. Automatically controls Night Temperature
Y N 5. Individual Thermostats for Day & Night

HAND TORCH
Y N 1. 200,000 heating capability
Y N 2. Driver side rear storage location
Y N 3. ¼ X15’ hose size & length
Y N 4. Two of on-off valves

EMULSION OIL TANK
Y N 1. 120-gallon capacity built-in main body passenger side
Y N 2. One-inch tank insulation thickness
Y N 3. 14-gauge steel
Y N 4. Heat transfer oil from main body
Y N 5. Gear pump type in insulated compartment driven by 4.9 CI hydraulic motor with forward and reverse with pump relief.
Y N 6. Cleaning system solvent spray with one valve
Y N 7. Spring loaded hose reel passenger side rear hose 1/2” x 20’
Y N 8. Spray wand size & length 3/8” x 5’
Y N 9. Safety burner shut-off when pump is operating

EMULSION OIL PUMP
Y N 1. Gear driven @ 20 GPM & 75 PSI - 1200 RPM
Y N 2. Safety burner shut-off when pump is operation

WASTE OIL TANK
Y N 1. 10-gallon, 16-gauge steel

CLEANING FLUID SYSTEM
Y N 1. 10-gallon, 16-gauge steel
Y N 2. 12V DC electric pump for cleaning tools/hopper
Y N 3. Cleaning system hose size & length 1/4" x 20'

**ANTI-BRIDGE BAR**
Y N 1. Located above the auger screw conveyor
Y N 2. Anti-bridge bar construction 2” SCH 80 pipe
Y N 3. Anti-bridge bar driven by 12 CI hydraulic motor

**HYDRAULIC SYSTEM**
Y N 1. Hydraulic system type Closed center
Y N 2. Hydraulic pump type Piston driven by PTO. **Gear pump will be accepted.**
Y N 3. Pump rating 16 GPM @ 2,250 PSI @ 800 RPM (Idle)
Y N 4. 30-gallon hydraulic tank, 16-gauge steel, discharged filtered to 100 microns and suction strainer 10 micron and shut off valve.
Y N 5. Sight gauge in tank.
Y N 6. Electric hydraulic control valve bank, sealed solenoid type
Y N 7. Eleven sections in control valve bank with manual over-ride

**HYDRAULIC INSULATED DOORS**
Y N 1. Quad Bi-fold. **‘Non-Quad’ Bi-fold doors will be accepted.**
Y N 2. 22-inch full open-door height above main body
Y N 3. One-inch thick, high temperature solid polystyrene insulation
Y N 4. Door opening size 52 x 105 v-shaped with continuous piano stainless-steel hinge welded
Y N 5. Door pivot hinge type sealed roller bearing
Y N 6. Number of door pivot hinges 6 / 3 per side
Y N 7. Two door cylinders, center position, interior enclosed, size 2 x 8 x 1 3/8 Rod
Y N 8. Door safety override switch at rear of machine

**STROBE LIGHTS**
Y N 1. Strobe lights two on cab, two at rear of patch body wired to switch for strobe lights in Headlights.
SPOILS BINS
Y N 1. 1.25 CY located on passenger side of patch body, 10-gauge HR plate
Y N 2. Hydraulic bin dumping, loading height 40 inches (truck frame height) above ground

TOOL STORAGE RACK
Y N 1. To hold shovels, rake and broom, located drivers side rear

WATER TANK
Y N 1. 30 gallon mounted behind cab on drivers’ side

SPEAKER
Y N 1. One speaker located at rear of patch body

OPTIONAL RELEASE AGENT SYSTEM
Y N 1. Time controlled automatic spray type
Y N 2. 18 gallon controlled from ground level
Y N 3. Are you able to provide this Release Agent System?
   a. (Cost/Each) $_________________

HYDRAULIC LIFT FOR ROLLER
Y N 1. Hydraulic designed to accommodate Multiquip V305EH vibratory roller compactor
Y N 2. Located at driver’s side rear of patch body
Y N 3. Positive lock in up position.

VIBRATORY ROLLER COMPACTOR
Y N 1. Multiquip V305EH

ACCESSORIES & DATA
Y N 1. 2 operation manuals, 1 Service manual, 1 parts manual, and 1 troubleshooting manual
Y N 2. Training for operators and mechanics upon delivery of accepted truck.