

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
EQUIPMENT AND PROCUREMENT DIVISION  
BID INVITATION

Contract Number: H-16-278P

**BID OPENING LOCATION:**  
AHTD Equipment and  
Procurement Division  
11302 West Baseline Road  
Little Rock, AR 72209

**MAIL TO:**  
AHTD Equipment and  
Procurement Division  
P.O. Box 2261  
Little Rock, AR 72203

**DELIVER TO:**  
AHTD Equipment and  
Procurement Division  
11302 West Baseline Road  
Little Rock, AR 72209

Bid Opening Date: March 22, 2016 Time: 11:00 a.m.

Sealed bids for furnishing the commodities and/or services described below, subject to the Conditions on page 2 of this Bid Invitation will be received at the above-noted mail and delivery locations until the above-noted bid opening date and time, and then publicly opened at the above-noted bid opening location. **Bids must be submitted on this form, with attachments when appropriate, or bids will be rejected. Late bids and unsigned bids will not be considered.**

In compliance with this Bid Invitation and subject to all the Conditions thereof, the undersigned offers and agrees to furnish any and all items upon which prices are quoted, at the price set opposite each item.

Company Name: \_\_\_\_\_

Name (Type or Print): \_\_\_\_\_

Address: \_\_\_\_\_

Title: \_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

E-Mail: \_\_\_\_\_

Federal Tax ID or Social Security No.: \_\_\_\_\_

**Signature:** \_\_\_\_\_

Signature must be legible, original (not photocopied) and in ink.  
Unsigned bids will be rejected.

**Crew Cab & Chassis**

Bid prices shall include delivery of all **Cab & Chassis** to the Arkansas State Highway and Transportation Department at the F.O.B. location(s) shown on attached Bid Sheet and shall include the warranty and service requirements stated in the specifications.

Contract may be renewed or extended upon mutual agreement of the parties, but shall not exceed limitations allowed by Arkansas State Procurement Law.

**Literature Submittals – Item A2 of Bid Specifications shall supersede Item #10 of Standard Bid Conditions.**

**Bid Bond** in the amount of \$1,000 required of all bidders at time of bid opening or bid will be rejected. **Personal and company checks are not acceptable as Bid Bonds.** See Condition 3 on page 2 of bid invitation.

**Performance Bond** in the amount of 5% of the total awarded to the respective bidders must be furnished within 10 days after receipt of notice of intent to award as a guarantee of delivery in accordance with the specifications and within the time established in the bid. **Personal and company checks are not acceptable as Performance Bonds.** See Condition 3 on page 2 of bid invitation.

**Additional Bonding Requirement:** If additional units are purchased from this contract, a separate Performance Bond will be required under the same conditions as stated in this Bid Invitation.

Bidder shall specify guaranteed delivery date for all vehicles/equipment bid on in the space provided under each item number for which a price is being submitted. Successful bidder shall furnish Warranty Data for each vehicle/equipment delivered. The Warranty Data shall contain all necessary information such as motor and/or serial numbers and shall be signed by the selling dealer at the time vehicle/equipment is delivered to the Highway Department. Certificate of Origin, Federal Excise Tax Exemption Certificates, Odometer Disclosure Statement and five (5) copies of the Invoice for each vehicle/equipment to be furnished to Equipment & Procurement Division, P.O. Box 2261, Little Rock, AR 72203

The successful bidder will be required to complete delivery within 180 days after award.

Bids and Specifications are available on-line by going to the AHTD Web Site – [www.arkansashighways.com](http://www.arkansashighways.com) and clicking on “Commodities & Services Bids/Contract Information”. Tabulations will also be available at this site after award of bid/contract. If you have any questions, call this office at 501-569-2667.

64-6173 & 64-6174

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STANDARD BID CONDITIONS

H-16-278P

1. **ACCEPTANCE AND REJECTION:** The Arkansas State Highway and Transportation Department (AHTD) reserves the right to reject any or all bids, to accept bids in whole or in part (unless otherwise indicated by bidder), to waive any informalities in bids received, to accept bids on materials or equipment with variations from specifications where efficiency of operation will not be impaired, and to award bids to best serve the interest of the State.
2. **PRICES:** Unless otherwise stated in the Bid Invitation, the following will apply: (1) unit prices shall be bid, (2) prices should be stated in units of quantity specified (feet, each, lbs., etc.), (3) prices must be F.O.B. destination specified in bid, (4) prices must be firm and not subject to escalation, (5) bid must be firm for acceptance for 30 days from bid opening date. In case of errors in extension, unit prices shall govern. Discounts from bid price will not be considered in making awards.
3. **BID BONDS AND PERFORMANCE BONDS:** If required, a **Bid Bond** in the form of a cashier's check, certified check, or surety bond issued by a surety company, in an amount stated in the Bid Invitation, must accompany bid. **Personal and company checks are not acceptable as Bid Bonds.** Failure to submit a Bid Bond as required will cause a bid to be rejected. The Bid Bond will be forfeited as liquidated damages if the successful bidder fails to provide a required Performance Bond within the period stipulated by AHTD or fails to honor their bid. When a bidder claims and can show clear and convincing evidence that a material mistake was made in the bid and was not the bid intended, the bidder may be permitted to withdraw their bid prior to award without forfeiture of bid bond. Cashier's checks and certified checks submitted as Bid Bonds will be returned to unsuccessful bidders; surety bonds will be retained. The successful bidder will be required to furnish a **Performance Bond** in an amount stated in the Bid Invitation and in the form of a cashier's check, certified check, or surety bond issued by a surety company, unless otherwise stated in the Bid Invitation, as a guarantee of delivery of goods/services in accordance with the specifications and within the time established in the bid. **Personal and company checks are not acceptable as Performance Bonds.** In some cases, a cashier's check or certified check submitted as a Bid Bond will be held as the Performance Bond of the successful bidder. Cashier's checks or certified checks submitted as Performance Bonds will be refunded shortly after payment has been made to the successful bidder for completion of all terms of the bid; surety bonds will be retained. Surety bonds must be issued by a surety company authorized to do business in Arkansas, and must be signed by a Resident Local Agent licensed by the Arkansas State Insurance Commissioner to represent that surety company. Resident Agent's Power-of-Attorney must accompany the surety bond. Certain bids involving labor will require Performance Bonds in the form of surety bonds only (no checks of any kind allowed). These bonds shall not only serve to guarantee the completion of the work, but also to guarantee the excellence of both workmanship and material until the work is finally accepted and the provisions of the Plans, Specifications, and Special Provisions fulfilled. In such cases, the company issuing the surety bond must comply with all stipulations herein and must be named in the U. S. Treasury listing of companies holding Certificates of Authority as acceptable sureties on Federal Bonds and as acceptable reinsuring companies. Any excess between the face amount of the bond and the underwriting limitation of the bonding company shall be protected by reinsurance provided by an acceptable reinsuring company. Annual Bid and Performance Bonds on file with E & P Division must have sufficient unencumbered funds to meet current bonding requirements, or the bid will be rejected, unless the balance is submitted as set forth above, prior to bid opening.
4. **TAXES:** The AHTD is not exempt from Arkansas State Sales and Use Taxes, or local option city/county sales taxes, when applicable, and bidders are responsible to the State Revenue Department for such taxes. These taxes should not be included in bid prices, but where required by law, will be paid by the AHTD as an addition thereto, and should be added to the billing to the AHTD. The AHTD is exempt from Federal Excise Taxes on all commodities except motor fuels; and excise taxes should not be included in bid prices except for motor fuels. Where applicable, tax exemption certificates will be furnished by the AHTD.
5. **"ALL OR NONE" BIDS:** Bidders who wish to bid "All or None" on two or more items shall so stipulate on the face of bid sheet; otherwise, bid may be awarded on an individual item basis.
6. **SPECIFICATIONS:** Complete specifications should be attached for any substitution or alternate offered, or where amplification is necessary. Bidder's name must be placed on all attachments to the bid.
7. **EXCEPTIONS TO SPECIFICATIONS:** Any exceptions to the bid specifications must be stated in the bid. Any exceptions to manufacturer's published literature must be stated in the bid, or it will be assumed that bidder is bidding exactly as stated in the literature.
8. **BRAND NAME REFERENCES:** All brand name references in bid specifications refer to that commodity or its equivalent, unless otherwise stated in Bid Invitation. Bidder should state brand or trade name of item being bid, if such name exists.
9. **FREIGHT:** All freight charges should be included in bid price. Any change in common carrier rates authorized by the Interstate Commerce Commission will be adjusted if such change occurs after the bid opening date. Receipted common carrier bills that reflect ICC authorized rate changes must be furnished.
10. **SAMPLES, LITERATURE, DEMONSTRATIONS:** Samples and technical literature must be provided free of any charge within 14 days of AHTD request, and free demonstrations within 30 days, unless AHTD extends time. Failure to provide as requested within this period may cause bid to be rejected. Samples, literature and demonstrations must be substantially the same as the item(s) being bid, unless otherwise agreed to by AHTD. Samples that are not destroyed will be returned upon request at bidders expense. Samples from successful bidders may be retained for comparison with items actually furnished.
11. **GUARANTY:** Unless otherwise indicated in Bid Invitation, it is understood and agreed that any item offered or shipped on this bid shall be newly manufactured, latest model and design, and in first class condition; and that all containers shall be new, suitable for storage or shipment and in compliance with all applicable laws relating to construction, packaging, labeling and registration.
12. **BACKORDERS OR DELAY IN DELIVERY:** Backorders or failure to deliver within the time required may constitute default. Vendor must give written notice to the AHTD, as soon as possible, of the reason for any delay and the expected delivery date. The AHTD has the right to extend delivery if reasons appear valid. If reason or delivery date is not acceptable, vendor is in default.
13. **DEFAULT:** All commodities furnished will be subject to inspection and acceptance by AHTD after delivery. Default in promised delivery or failure to meet specifications authorizes the AHTD to cancel award or any portion of same, to reasonably purchase commodities or services elsewhere and to charge full increase, if any, in cost and handling to defaulting vendor. Applicable bonds may be forfeited.
14. **ETHICS:** *"It shall be a breach of ethical standards for a person to be retained, or to retain a person, to solicit or secure a State contract upon an agreement of understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies maintained by the contractor for the purpose of securing business."* (Arkansas Code, Annotated, Section 19-11-708).

**ARKANSAS STATE HIGHWAY  
AND TRANSPORTATION DEPARTMENT**

**NOTICE OF NONDISCRIMINATION**

The Arkansas State Highway and Transportation (Department) complies with all civil rights provisions of federal statutes and related authorities that prohibit discrimination in programs and activities receiving federal financial assistance. Therefore the Department does not discriminate on the basis of race, sex, color, age, national origin, religion or disability, in the admission, access to and treatment in the Department's programs and activities, as well as the Department's hiring or employment practices. Complaints of alleged discrimination and inquiries regarding the Department's nondiscrimination policies may be directed to Joanna P. McFadden, Section Head - EEO/DBE (ADA/504/Title VI Coordinator), P. O. Box 2261, Little Rock, AR 72203, (501) 569-2298, (Voice/TTY 711), or the following email address: [joanna.mcfadden@ahtd.ar.gov](mailto:joanna.mcfadden@ahtd.ar.gov).

Free language assistance for Limited English Proficient individuals is available upon request.

This notice is available from the ADA/504/Title VI Coordinator in large print, on audiotape and in Braille.

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
LITTLE ROCK, ARKANSAS  
EQUIPMENT AND PROCUREMENT DIVISION  
BID SHEET**

**Contract No.: H-16-278P**

**BIDDER:** \_\_\_\_\_

Page 1 of 2

1. **2** – Crew Cab & Chassis, 33,000# GVWR, 84” CA, Diesel, Manual Transmission  
with 5 CY Ejecto Body, to meet AHTD **Spec. 16-102-044.**

FOB: **2 ea. - AHTD – District 6 Headquarters, 8900 Mabelvale Pike, Little Rock, AR 72209**

Bid Price (Do not include any Local, State or Federal Taxes) Each \$ \_\_\_\_\_

Total for **2** Crew Cab & Chassis \$ \_\_\_\_\_

**Cab & Chassis proposed as meeting specifications:**

Make \_\_\_\_\_ Model \_\_\_\_\_ Warranty \_\_\_\_\_

Guaranteed Delivery Date \_\_\_\_\_

Additional Units may be purchased at the same pricing and  
conditions through \_\_\_\_\_  
(Date)

2. **2** – Crew Cab & Chassis, 33,000# GVWR, 84” CA, Diesel, Automatic Transmission  
for 4 CY Ejecto Body, to meet AHTD **Spec. 16-103-044.**

FOB: **2 ea. - AHTD – District 7 Headquarters, 2245 California Avenue, Camden, AR 71701**

Bid Price (Do not include any Local, State or Federal Taxes) Each \$ \_\_\_\_\_

Total for **2** Crew Cab & Chassis \$ \_\_\_\_\_

**Cab & Chassis proposed as meeting specifications:**

Make \_\_\_\_\_ Model \_\_\_\_\_ Warranty \_\_\_\_\_

Guaranteed Delivery Date \_\_\_\_\_

Additional Units may be purchased at the same pricing and  
conditions through \_\_\_\_\_  
(Date)

**BID TOTAL \$** \_\_\_\_\_

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT**

**SPECIFICATION 16-102-044**

**FOR**

**CREW CAB AND CHASSIS**

**33,000 POUNDS GVWR**

**WITH 5 CUBIC YARDS CAPACITY EJECTO BODY**

**A. General Specifications:**

1. **Current Model:** Units furnished under this specification shall be the latest improved model in current production, as offered to commercial trade, built for the U.S. market, and shall be of quality workmanship and material. Units manufactured for foreign markets will not be accepted. All equipment offered under this specification shall be new. Used, reconditioned, shopworn, demonstrator, prototype or discontinued models are not acceptable. Manufacturers of the units supplied must have been in the business of producing operational units for at least two years and must have recently sold similar units to domestic governmental agencies. The model furnished must have been in production for a minimum of one year, or be the latest version of a previous model. Bidder(s) will be required to submit documentation substantiating the aforementioned requirements. A list of user references may also be required.
2. **Literature:** Manufacturers literature, verifying adherence of proposed unit to each line item addressed in this specification, shall be submitted with the bid. If any literature and/or specifications of items conflict with AHTD specifications, the conflict(s) shall be specifically noted, corrected and submitted with the bid.
3. Any deviations from specifications and requirements herein must be clearly pointed out by bidder. Otherwise it will be considered that equipment offered is in strict compliance with these specifications and requirements, and successful bidder will be held responsible therefor. Deviations must be explained in detail on an attached sheet. However, no implication is made by the Arkansas State Highway and Transportation Department that deviations will be acceptable.
4. **Manuals:** The successful bidder shall furnish one (1) Operator's Instruction Manual with each unit delivered and one (1) copy each of Shop Repair Manual and Parts Book to each FOB point.  
  
The successful bidder may provide Shop Repair Manuals and Parts Manuals on computer media (CD, DVD, USB Drive, etc.) in lieu of printed manuals.
5. All parts, accessories and tools necessary for satisfactory operation of unit shall be furnished whether or not they are specifically mentioned in this specification (including standard equipment as regularly furnished by manufacturer as shown on printed literature and specifications - unless specifically excluded by this specification).
6. **Parts Inventory & Service Facilities:** The successful bidder shall maintain a representative inventory of replacement parts and service facilities for servicing equipment bid on.
7. **Demonstration:** The Arkansas State Highway & Transportation Department reserves the right to require a demonstration, under actual working conditions, of equipment bid under this specification before award is made. The demonstration would be performed (free of any charge) by the bidder or an authorized representative at a mutually acceptable location. If requested, the bidder should be prepared to demonstrate the equipment within thirty (30) days after notification. Failure of the bidder to perform a satisfactory demonstration within the specified time may be grounds for rejection of the bid.
8. **Drawings:** Professional quality drawings which depict the layout of the chassis will be provided with the bid.
9. **Inspection:** The AHTD reserves the right to inspect bodies during manufacture, or prior to their installation, for compliance with specifications and to inspect hydraulics installation during work in progress. Location of components on truck chassis shall be approved by AHTD prior to installation. All workmanship shall be first class (no welding on truck frame to install ejecto body). Any unit delivered under this specification is subject to rejection if there is evidence of poor workmanship by either the vendor or the original manufacturer.
10. **Delivery Requirements:** It will be the responsibility of the Successful Bidder to guarantee delivery of the cab & chassis as specified, including items or equipment installed by a third party contractor, within the quoted time.
11. **Cooperative Purchasing:** Other tax-supported entities\* in Arkansas (cities, counties, state agencies, school districts, etc.) may purchase from this Contract on an individual basis under the same specifications and conditions, and at the pricing set forth by each vendor, all at the discretion of each vendor in each case. Prices could be reduced by a vendor for minor alterations in conditions (changing order quantities, deleting options, etc.) as agreed by both parties, but could not be raised above the contract bid price except for any additional freight charges. Vendors would not be required to sell to any such entity under this contract, and those entities would not be obligated to purchase from the contract.

Each entity wishing to purchase from the contract must make contact directly with the appropriate vendor(s). The Highway Department shall remain "out of the loop" for such transactions: all contact, orders, invoices, payments, etc.

regarding such transactions must take place exclusively between the tax-supported entity and the vendor. The Department shall be held harmless of any and all liability arising from such transactions.

\* Tax-supported entities are defined as those receiving more than half of total funding from appropriated tax funds.

**B. Cab & Chassis:**

1. GVWR: No less than 33,000 pounds.
2. Wheelbase: Minimum of 185”.
3. Cab to Axle: 84” minimum effective CA, 94” maximum effective CA.
4. Tires: Six (6) steel belted tubeless radials, no less than 11R22.5 - “G” Load Range; Single Front and Dual Rear. All tires must have speed restriction that exceed 65 MPH.
5. Wheels: Seven (7) 22.5” Diameter tubeless type, hub piloted steel disc with 220 mm center hole, 285.75 mm 10 hole bolt circle diameter and not less than 8.25” rim section.
6. Engine: Turbocharged 4 Cycle diesel with a minimum piston displacement of 7.6 liters developing no less than 250 SAE gross horsepower at rated RPM and no less than 800 lb. ft. SAE gross torque. Shall have a minimum governed speed of 2,200 RPM. Shall have full flow oil filter(s), fuel filters, dry type air cleaner, 12 volt electrical equipment with no less than 130 amp alternator and maintenance free batteries as regularly furnished with engine specified. Engine shall be equipped with a block heater rated at no less than 1,000 watts which will operate on 120 volts AC.
7. Front Power Take-Off: Engine to be equipped with provision for front PTO drive. Shall include the necessary crankshaft adapter for attaching a shaft type drive and any other items required for this provision. If the PTO driveshaft passes through the radiator, charge air cooler, and/or air conditioning condenser it shall be shielded by a steel encasement of sufficient strength to prevent damage to surrounding components in the event of driveshaft failure. The encasement shall be mounted to the chassis frame rails.
8. Cooling System: As recommended and regularly furnished by the manufacturer for use with the engine size specified above with anti-freeze protection to -20° F, or lower.
9. Exhaust System: Vertical exhaust stack with curved outlet. Exhaust stack to be equipped with a heat shield. If the DPF is part of the exhaust stack, the clearance to the dump body must be pre-approved. Exhaust system design and/or components shall not hinder the instillation of a 4 cubic yard ejecto body behind the cab.
10. Engine Shutdown: Engine safety shutdown system with manual or automatic override to include the following features: low oil pressure - warning bell/buzzer plus shutdown, high coolant temperature - warning bell/buzzer plus shutdown and low coolant level - warning bell/buzzer plus light or shutdown.
11. Throttle Control: Engine shall be equipped with an in-cab electronic throttle control for use with PTO.
12. Fuel Tank(s): Single or dual fuel tanks with instrument panel fuel gauge. Minimum fuel capacity of 100 gallons.
13. Transmission: Fuller FSO-8406A.
14. Steering: Hydraulic actuated power steering as regularly offered by manufacturer.
15. Front Axle: I Beam Type with wet seals, outboard mounted drums and a minimum capacity of 12,000 pounds.
16. Front Springs: As required to meet axle capacity specified above.
17. Rear Axle: Single speed full-floating type with wet seals, outboard mounted drums and a minimum capacity of 21,000 pounds. Ratio of 4.78, 4.88, 5.13, 5.29, 5.38, 5.57 or 5.63 to 1. Alternate ratio may be provided if approved by AHTD prior to delivery. (Axle ratio should provide a maximum theoretical geared speed of no less than 66 MPH and still provide acceptable startability under load.)
18. Springs: As required to meet GVWR and axle ratings specified above. Rear springs shall consist of both main and auxiliary or overloads.
19. Air System: Air compressor shall have a minimum capacity of 13.2 cfm and draw air through the engine air cleaner. Air system shall be equipped with a heated air dryer.
20. Brakes: Factory installed full air operated two shoe type with automatic slack adjusters and dust shields on front and rear. Rear brakes shall have spring set parking brakes.

21. **Trailer Controls:** Shall be equipped with full trailer brake controls providing air brake and electrical hookup for straight truck with trailer applications. Shall include hand control valve and tractor protection valve. Air lines and 7-wire electric cable shall be routed to end of frame. Air lines to be equipped with glad hands and electric cable with 7-wire receptacle.
22. **Frame:** Section modulus and yield strength of frame material shall provide a minimum RBM of 1,700,000. Shall have 20" minimum front frame extension.
23. **Cab:** Four (4) door Crew Cab, complete with insulation and all interior trim. Cab glass shall include windshield, roll-up windows in doors and rear cab glass as a minimum. Shall have key type locks on right and left front doors, factory installed fresh air heater-defroster unit, grab handle on each side, right and left sun shades and fitted rubber floor mats.
  - a. **Instruments:** Shall include the following as a minimum:
    - (1) Speedometer/odometer
    - (2) Electric tachometer
    - (3) Ammeter or voltmeter
    - (4) Oil pressure gauge
    - (5) Coolant temperature gauge
    - (6) Transmission oil temperature gauge or warning light
    - (7) Air brake pressure gauge
  - b. **Air Conditioning:** Factory installed air conditioning. Shall include tinted glass all around.
  - c. **Tilt Steering Column:** Factory installed.
  - d. **Windshield Wipers:** Dual electric intermittent windshield wipers with washers.
  - e. **Auxiliary Switches:** Shall be equipped with a minimum of six (6) rocker switches mounted in the instrument panel for use by bodybuilder or end user to supply power to work lights, warning lights and other auxiliary electrical devices.
  - f. **Seats:** Five (5) person seating consisting of an air suspension driver's seat, a non-suspension front passenger's seat and a full width rear bench seat with three (3) person seating capacity. Shall include seat belts for all seating positions.
  - g. **Radio:** Factory installed electronic AM/FM/WB radio.
  - h. **Heated Mirrors:** Dual Heated West Coast Sr. type mirrors no less than 7" x 16" with adjustable brackets and auxiliary convex mirrors.
  - i. **Air Horn:** Single or dual trumpet air horn.
24. **Hood:** Tilting fiberglass or composite hood and fenders.
25. **Front Bumper:** Swept back or similar type front bumper compatible with front frame extension.
26. **Lights:** Shall be equipped with dual beam headlights, parking lights, clearance lights, automatic backup lights, directional turn signals with column mounted switch and hazard flasher switch. Rear signals to be wired for stop and tail lights in addition to directional signals.
27. **Backup Alarm:** Shall be equipped with an electric backup alarm meeting the requirements of SAE J994 with a minimum sound level output of 97 decibels.
28. **Color:** Cab, Hood, Fenders & Wheels shall be Sherwin Williams F8W2030 Frost White Acrylic Enamel, or equal. Grill, bumper and mirrors shall be as regularly furnished by manufacturer.

**C Ejecto Body:**

1. **General:** This specification is intended to cover the purchase of a Hydraulically Operated Materials Handling Body for mounting on AHTD Trucks. Each body shall be complete with power take-off, hydraulic pump and hydraulic system.
2. **Body:** Hydraulically operated materials handling body with a minimum struck capacity of five (5) cubic yards. Shall be designed to handle aggregates, asphalt mix, wet concrete mix, mud, etc. and shall eject materials horizontally, without elevating the body, by means of a moveable blade, cables, and a minimum of one (1) hydraulic cylinder, together with a tailgate operated by a minimum of two (2) hydraulic cylinders. Body floor shall be constructed of no less than 10 gauge abrasion resistant steel. Sides and tailgate shall be constructed of no less than 12 gauge abrasion resistant steel. Body shall

- be no less than 84" wide inside and no less than 138" long. Shall have variable unloading speeds and tailgate opening control for spreading material. Tailgate shall have floating action when maximum ejection is used. Ejection system shall completely evacuate various type materials listed above when complete unloading is required.
3. Cab Guard: A cab guard, constructed of no less than 12 gauge steel, shall be provided to protect the cab of the truck from falling objects while loading. Cab guards provided shall be designed to fit the trucks specified in Section B.
  4. Work Table: A detachable work table shall be installed in keyhole slots at rear of body. Table shall be designed for quick installation or removal without the use of special tools. Shall provide a flat work surface no less than 24" deep and no less than 80" wide, with vertical members to prevent spillage to the sides. Table shall be constructed of minimum 10 gauge steel with proper and adequate support.
  5. Hydraulic System: Ejection mechanism, tailgate and any additional hydraulic circuits specified shall have the capability of being operated separately and the hydraulic system shall have sufficient volume and pressure for normal operation of those circuits.
    - a. Hydraulic Pump: Hydraulic pump shall be a gear type with a minimum capacity of 20 gpm at no more than 2,000 rpm engine speed. The pump shall be designed to compensate for end thrust and the shafts shall turn on anti-friction roller or needle bearings. Pump furnished shall be for direct mounting to PTO with not less than a 7/8" 13 tooth splined input shaft.
    - b. Oil Reservoir: Shall have a minimum capacity of fifteen (15) gallons and include a means to indicate the hydraulic oil level in the reservoir.
    - c. Hydraulic Filter: A replaceable type hydraulic filter shall be installed in return line to the reservoir.
    - d. Auxiliary Hydraulic Circuit: An auxiliary hydraulic circuit shall be furnished to operate additional attachments such as hydraulic hammers, tampers, etc. This circuit shall include an additional valve, suitable hydraulic lines; pressure relief valve and quick disconnect fittings.
  6. Power Take-Off: Shall be multi-gear type with flange bracket for direct mounting to hydraulic pump. Bearings shall be a high grade needle or roller bearings.
    - a. Power take-off shall operate at not less than 80% or more than 125% of engine speed.
    - b. Quantity: Hot shift type power take-off units shall be provided for mounting on the right side of Allison 3500 RDS automatic transmissions with six speed programming.
  7. Controls: Body and PTO controls designed for in-cab mounting shall be provided.
    - a. Body Controls: Shall permit infinitely variable rate of material ejection.
    - b. PTO: Shall be controlled by a toggle switch with on and off positions. A pilot light to indicate when PTO is engaged shall be provided for all units.
  8. Additional Equipment: All bolts, washers, nuts, hydraulic hoses, air lines, etc. necessary to mount body on truck with 84" CA measurement shall be furnished. Mud flaps no less than 24" wide and 1/4" thick, without advertising, for mounting behind rear wheels shall be provided.
  9. Lights and Reflectors: Side marker and clearance lights shall be bolt on, armored type. Reflectors shall be bolt on type. (Recessed, rubber-mounted, snap-in lights with reflector type lens and plug-in connectors may be used in lieu of armored lights and bolt on reflectors.) Lights and reflectors shall comply with Federal Motor Vehicle Safety Standard FMVSS108.
  10. Brake, Turn and Tail Lights: Lighting shall meet all Federal and State DOT specifications, which requires an independent running light on the rear corners.
    - a. All lights shall be LED and mounted in shockproof rubber grommets.
    - b. All lights shall be connected to a one piece wiring harness with molded connectors.
  11. Tarp System: A fully automatic two (2) arm type tarp system shall be installed. It shall be an electric system operated from the cab. The arms shall be aluminum and form an arch that provide maximum clearance and fit for loading material into body. The tarp shall be designed for hot asphalt. The width of the tarp shall be within 4" of the inside width of the dump body. The arm springs shall be adjustable and designed for side mounting on the dump body. The elbows of the tarp arms shall be bolted to the arms. The tarp arms shall have a 45 degree swept angle. The tarp shall be controlled by the chassis electric accessory power supply. Shall be Aero Series 575 or approved equivalent. Tarp system shall include a twin arm tarp tensioning device that attaches to the primary arms and pivots to the forward end of the dump body when the tarp is deployed to prevent sailing. Shall be Aero 0311-980042 or approved equivalent. Tarp shall be mounted as high as



practical on the cab guard to prevent damage when the front header is in motion. Tarp system shall include a protective aluminum windshield.

12. **Serial Number:** Each unit shall be provided with a manufacturer's serial number, unique to each unit, permanently attached by plate or engraving. This shall be placed in a discreet location. No additional dealer's or manufacturer's advertisement shall be placed on the body without prior approval of AHTD.
13. **Color:** Body shall be primed and painted Sherwin Williams F1B-4009 Gloss Black Enamel, or equal. Finish painting of the inside bottom of the body is not necessary.

**D. Warranty:**

1. Cab and chassis shall have truck manufacturer's regular warranty and service as regularly furnished on new vehicles sold to the public. Warranty data shall be furnished with each unit.
2. The dump body, hydraulic system, and other incidental equipment furnished under this specification shall be warranted against defective material and workmanship for a minimum period of (12) months (365 days) from date unit is placed in operation by AHTD.
  - a. Warranty should include all parts, labor and transportation costs to the location of equipment.
  - b. If equipment cannot be repaired on location, warranty shall include cost of transport to the facility where the repair work will be done.
3. Warranty repairs are to be performed by any authorized dealership of the manufacturer; however, the Successful Bidder will be ultimately responsible for coordinating repairs and insuring that warranty repairs are completed in a timely manner.
4. If any warranty literature submitted with the bid conflicts with AHTD warranty requirements, the conflict(s) shall be specifically noted, corrected and included with the bid or the conflict(s) will be considered an exception to warranty specifications and the bid rejected.
5. Recent prior failure to provide warranty-work, parts, replacement parts or service, in a timely manner, for equipment from the same manufacturer or dealer shall be grounds for the rejection of any submitted bid, or for the denial of any otherwise qualified low bidder, whether such failure is attributable to the manufacturer or the dealer of the equipment. For the purposes of this paragraph "timely manner" means a period of time not exceeding thirty (30) calendar days to provide requested warranty-work, parts, replacement parts, or service. For the purposes of this paragraph "manufacturer" means the original manufacturer of the equipment and its successor or successors, regardless of number, and whether acquired by sale, merger, or otherwise. For the purposes of this paragraph "replacement part" means a part redesigned by a manufacturer to correct a design or engineering defect and which replacement part is capable of providing dependable performance in normal operation conditions for its normal service life without failure. Such bid or bids may be rejected by the Department until such failure or failures have been remedied to the satisfaction of the Department and until such manufacturer or dealer is providing such warranty-work, parts, replacement parts, and service in a timely manner.

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT**

**SPECIFICATION 16-103-044**

**FOR**

**CREW CAB AND CHASSIS**

**33,000 POUNDS GVWR**

**FOR 4 CUBIC YARD CAPACITY EJECTO BODY**

**A. General Conditions:**

1. **Current Model:** Units furnished under this specification shall be the latest improved model in current production, as offered to commercial trade, built for the U.S. market, and shall be of quality workmanship and material. Units manufactured for foreign markets will not be accepted. All equipment offered under this specification shall be new. Used, reconditioned, shopworn, demonstrator, prototype or discontinued models are not acceptable. Manufacturers of the units supplied must have been in the business of producing operational units for at least two years and must have recently sold similar units to domestic governmental agencies. The model furnished must have been in production for a minimum of one year, or be the latest version of a previous model. Bidder(s) will be required to submit documentation substantiating the aforementioned requirements. A list of user references may also be required.
2. **Literature:** Manufacturers literature, verifying adherence of proposed unit to each line item addressed in this specification, shall be submitted with the bid. If any literature and/or specifications of items conflict with AHTD specifications, the conflict(s) shall be specifically noted, corrected and submitted with the bid.
3. Any deviations from specifications and requirements herein must be clearly pointed out by bidder. Otherwise it will be considered that equipment offered is in strict compliance with these specifications and requirements, and successful bidder will be held responsible therefor. Deviations must be explained in detail on an attached sheet. However, no implication is made by the Arkansas State Highway and Transportation Department that deviations will be acceptable.
4. **Manuals:** The successful bidder shall furnish one (1) Operator's Instruction Manual with each unit delivered and one (1) copy each of Shop Repair Manual and Parts Book to each FOB point.

The successful bidder may provide Shop Repair Manuals and Parts Manuals on computer media (CD, DVD, USB Drive, etc.) in lieu of printed manuals.

5. All parts, accessories and tools necessary for satisfactory operation of unit shall be furnished whether or not they are specifically mentioned in this specification (including standard equipment as regularly furnished by manufacturer as shown on printed literature and specifications - unless specifically excluded by this specification).
6. **Parts Inventory & Service Facilities:** The successful bidder shall maintain a representative inventory of replacement parts and service facilities for servicing equipment bid on.
7. **Demonstration:** The Arkansas State Highway & Transportation Department reserves the right to require a demonstration, under actual working conditions, of equipment bid under this specification before award is made. The demonstration would be performed (free of any charge) by the bidder or an authorized representative at a mutually acceptable location. If requested, the bidder should be prepared to demonstrate the equipment within thirty (30) days after notification. Failure of the bidder to perform a satisfactory demonstration within the specified time may be grounds for rejection of the bid.
8. **Delivery Requirements:** It will be the responsibility of the Successful Bidder to guarantee delivery of the cab & chassis as specified, including items or equipment installed by a third party contractor, within the quoted time.
9. **Cooperative Purchasing:** Other tax-supported entities\* in Arkansas (cities, counties, state agencies, school districts, etc.) may purchase from this Contract on an individual basis under the same specifications and conditions, and at the pricing set forth by each vendor, all at the discretion of each vendor in each case. Prices could be reduced by a vendor for minor alterations in conditions (changing order quantities, deleting options, etc.) as agreed by both parties, but could not be raised above the contract bid price except for any additional freight charges. Vendors would not be required to sell to any such entity under this contract, and those entities would not be obligated to purchase from the contract.

Each entity wishing to purchase from the contract must make contact directly with the appropriate vendor(s). The Highway Department shall remain "out of the loop" for such transactions: all contact, orders, invoices, payments, etc. regarding such transactions must take place exclusively between the tax-supported entity and the vendor. The Department shall be held harmless of any and all liability arising from such transactions.

\* Tax-supported entities are defined as those receiving more than half of total funding from appropriated tax funds.

**B. Cab & Chassis:**

1. GVWR: No less than 33,000 pounds.
2. Wheelbase: Minimum of 185".
3. Cab to Axle: 84" minimum effective CA, 94" maximum effective CA.
4. Tires: Six (6) steel belted tubeless radials, no less than 11R22.5 - "G" Load Range; Single Front and Dual Rear. All tires must have speed restriction that exceed 65 MPH.
5. Wheels: Seven (7) 22.5" Diameter tubeless type, hub piloted steel disc with 220 mm center hole, 285.75 mm 10 hole bolt circle diameter and not less than 8.25" rim section.
6. Engine: Turbocharged 4 Cycle diesel with a minimum piston displacement of 7.6 liters developing no less than 250 SAE gross horsepower at rated RPM and no less than 800 lb. ft. SAE gross torque. Shall have a minimum governed speed of 2,200 RPM. Shall have full flow oil filter(s), fuel filters, dry type air cleaner, 12 volt electrical equipment with no less than 130 amp alternator and maintenance free batteries as regularly furnished with engine specified. Engine shall be equipped with a block heater rated at no less than 1,000 watts which will operate on 120 volts AC.
7. Cooling System: As recommended and regularly furnished by the manufacturer for use with the engine size specified above with anti-freeze protection to -20° F, or lower.
8. Exhaust System: Vertical exhaust stack with curved outlet. Exhaust stack to be equipped with a heat shield. If the DPF is part of the exhaust stack, the clearance to the dump body must be pre-approved. Exhaust system design and/or components shall not hinder the instillation of a 4 cubic yard ejecto body behind the cab.
9. Engine Shutdown: Engine safety shutdown system with manual or automatic override to include the following features: low oil pressure - warning bell/buzzer plus shutdown, high coolant temperature - warning bell/buzzer plus shutdown and low coolant level - warning bell/buzzer plus light or shutdown.
10. Throttle Control: Engine shall be equipped with an in-cab electronic throttle control for use with PTO.
11. Fuel Tank(s): Single or dual fuel tanks with instrument panel fuel gauge. Minimum fuel capacity of 100 gallons.
12. Transmission: Allison 3500 RDS automatic with six speed programming and PTO provision. Transmission shall have synthetic lubricant and be equipped with a transmission oil cooler.
13. Steering: Hydraulic actuated power steering as regularly offered by manufacturer.
14. Front Axle: I Beam Type with wet seals, outboard mounted drums and a minimum capacity of 12,000 pounds.
15. Front Springs: As required to meet axle capacity specified above.
16. Rear Axle: Single speed full-floating type with wet seals, outboard mounted drums and a minimum capacity of 21,000 pounds. Ratio of 6.14, 6.17, 6.43 or 6.50 to 1. Alternate ratio may be provided if approved by AHTD prior to delivery. (Axle ratio should provide a maximum theoretical geared speed of no less than 66 MPH and still provide acceptable startability under load.)
17. Springs: As required to meet GVWR and axle ratings specified above. Rear springs shall consist of both main and auxiliary or overloads.
18. Air System: Air compressor shall have a minimum capacity of 13.2 cfm and draw air through the engine air cleaner. Air system shall be equipped with a heated air dryer.
19. Brakes: Factory installed full air operated two shoe type with automatic slack adjusters and dust shields on front and rear. Rear brakes shall have spring set parking brakes.
20. Trailer Controls: Shall be equipped with full trailer brake controls providing air brake and electrical hookup for straight truck with trailer applications. Shall include hand control valve and tractor protection valve. Air lines and 7-wire electric cable shall be routed to end of frame. Air lines to be equipped with glad hands and electric cable with 7-wire receptacle.
21. Frame: Section modulus and yield strength of frame material shall provide a minimum RBM of 1,700,000.

22. **Cab:** Four (4) door Crew Cab, complete with insulation and all interior trim. Cab glass shall include windshield, roll-up windows in doors and rear cab glass as a minimum. Shall have key type locks on right and left front doors, factory installed fresh air heater-defroster unit, grab handle on each side, right and left sun shades and fitted rubber floor mats.
- a. **Instruments:** Shall include the following as a minimum:
    - (1) Speedometer/odometer
    - (2) Electric tachometer
    - (3) Ammeter or voltmeter
    - (4) Oil pressure gauge
    - (5) Coolant temperature gauge
    - (6) Transmission oil temperature gauge or warning light
    - (7) Air brake pressure gauge
  - b. **Air Conditioning:** Factory installed air conditioning. Shall include tinted glass all around.
  - c. **Tilt Steering Column:** Factory installed.
  - d. **Windshield Wipers:** Dual electric intermittent windshield wipers with washers.
  - e. **Auxiliary Switches:** Shall be equipped with a minimum of six (6) rocker switches mounted in the instrument panel for use by bodybuilder or end user to supply power to work lights, warning lights and other auxiliary electrical devices.
  - f. **Seats:** Five (5) person seating consisting of an air suspension driver's seat, a non-suspension front passenger's seat and a full width rear bench seat with three (3) person seating capacity. Shall include seat belts for all seating positions.
  - g. **Radio:** Factory installed electronic AM/FM/WB radio.
  - h. **Heated Mirrors:** Dual Heated West Coast Sr. type mirrors no less than 7" x 16" with adjustable brackets and auxiliary convex mirrors.
  - i. **Air Horn:** Single or dual trumpet air horn.
23. **Hood:** Tilting fiberglass or composite hood and fenders.
24. **Front Bumper:** Swept back or similar type front bumper compatible with front frame extension.
25. **Lights:** Shall be equipped with dual beam headlights, parking lights, clearance lights, automatic backup lights, directional turn signals with column mounted switch and hazard flasher switch. Rear signals to be wired for stop and tail lights in addition to directional signals.
26. **Backup Alarm:** Shall be equipped with an electric backup alarm meeting the requirements of SAE J994 with a minimum sound level output of 97 decibels.
27. **Color:** Cab, Hood, Fenders & Wheels shall be Sherwin Williams F8W2030 Frost White Acrylic Enamel, or equal. Grill, bumper and mirrors shall be as regularly furnished by manufacturer.
28. **Warranty:** Cab and chassis shall have truck manufacturer's regular warranty and service as regularly furnished on new vehicles sold to the public. Warranty data shall be furnished with each unit.
- a. Warranty shall include all parts, labor and transportation costs to the location of equipment.
  - b. If equipment cannot be repaired on location, warranty shall include cost of transport to the facility where the repair work will be done.
  - c. It will be the responsibility of the successful bidder to insure that repairs are completed in a timely manner.
  - d. If any warranty literature submitted with the bid conflicts with AHTD warranty requirements, the conflict(s) shall be specifically noted, corrected and included with the bid or the conflict(s) will be considered an exception to warranty specifications and the bid rejected.
  - e. Recent prior failure to provide warranty-work, parts, replacement parts or service, in a timely manner, for equipment from the same manufacturer or dealer shall be grounds for the rejection of any submitted bid, or for the denial of any otherwise qualified low bidder, whether such failure is attributable to the manufacturer or the dealer

of the equipment. For the purposes of this paragraph “timely manner” means a period of time not exceeding thirty (30) calendar days to provide requested warranty-work, parts, replacement parts, or service. For the purposes of this paragraph “manufacturer” means the original manufacturer of the equipment and its successor or successors, regardless of number, and whether acquired by sale, merger, or otherwise. For the purposes of this paragraph “replacement part” means a part redesigned by a manufacturer to correct a design or engineering defect and which replacement part is capable of providing dependable performance in normal operation conditions for its normal service life without failure. Such bid or bids may be rejected by the Department until such failure or failures have been remedied to the satisfaction of the Department and until such manufacturer or dealer is providing such warranty-work, parts, replacement parts, and service in a timely manner.