

INVITATION TO BID

State of Ohio
Department of Administrative Services
General Services Division
Office of Procurement Services

The original signed bid must be submitted to the Office of Procurement Services to receive consideration for award.		BIDDER NAME	
BID NUMBER 0B101914	OPENING DATE (1:00 p.m.) May 30, 2014	STREET ADDRESS <input type="checkbox"/> Check if remit address is different and list on separate sheet	
General Services Division Office of Procurement Services 4200 Surface Road Columbus, OH 43228-1395 Attn: Bid Desk		CITY STATE ZIP	
		COUNTY	MBE/EDGE CERTIFICATE NUMBER
		TELEPHONE NO. ()	TOLL FREE NO. 1 - ()
		CONTACT PERSON	FAX NO. ()
REQ./INDEX NO. Multiple	BID NOTICE DATE 05/21/14	CONTRACTOR'S E-MAIL ADDRESS	
SELECT YOUR PREFERRED METHOD OF RECEIVING PURCHASE ORDERS AND ENTER THE E-MAIL OR FAX NUMBER INFORMATION (ONLY SELECT ONE METHOD)			
<input type="checkbox"/> E-Mail <input type="checkbox"/> Fax			
In addition to the standard terms for payment, the payment terms for state agency(ies) will be 2%, 10 Days, Net 30 Days unless otherwise stated in the following space. If no discount is offered, bidder should circle "Net 30 Days". _____%, _____ Days, Net 30 Days			
BILL TO: Ohio Department of Natural Resources Parks & Recreation 2045 Morse Road C-3 Columbus, OH 43229		SHIP TO: Buckeye Lake State Park 2905 Liebs Island Road Millersport, OH 43046	
DELIVERY REQUESTED F.O.B./DEST. P.P.D. June 11, 2014		DELIVERY OFFERED (IF DIFFERENT) F.O.B./DEST.P.P.D. _____	
MINORITY SET-ASIDE BID IN ACCORDANCE WITH ORC CH. 125.081			
THE DEPARTMENT OF ADMINISTRATIVE SERVICES, OFFICE OF PROCUREMENT SERVICES IS SOLICITING BIDS FOR: HEAVY CONSTRUCTION EQUIPMENT TO INCLUDE; (2) EXCAVATORS, (2) HEAVY TANDEM DUMP TRUCKS, (2) DIESEL SEMI-TRACTORS, (1) 20 AND (1) 25 TON TAG TRAILERS, AND (1) 50 TON SELF-LIFTING TRAILER			
QUANTITY AND DURATION: This Invitation to Bid, which is not a contract, is considered to be a one-time procurement offer for the product(s)/service(s) as listed herein. The successful Contractor may commence performance of the awarded contract upon receipt of an official state of Ohio Purchase Order (ADM0523/ORDE). Upon completion of the contract and upon receipt of proper invoices, payment will be provided by the ordering agency. The contract will then be considered as complete and no further purchases may be placed against the contract. With the exception of approved overrun/underrun tolerances, any deviations from the quantity listed in the awarded contract shall not be permissible nor acceptable.			
INSTRUCTIONS, TERMS AND CONDITIONS FOR BIDDING; STANDARD CONTRACT TERMS AND CONDITIONS; AND SUPPLEMENTAL CONTRACT TERMS AND CONDITIONS, Rev. 10/2013 are a part of this Invitation to Bid. Copies may be downloaded by clicking on this link: Instructions: Terms and Conditions for Bidding, Standard Contract Terms and Conditions, and Supplemental Contract Terms and Conditions . All prior versions of Instructions to Bidders, Contract Terms and Conditions are null and void.			
Any questions or clarifications regarding this Invitation to Bid should be directed to the Office of Procurement Services through the Internet at www.ohio.gov/procure . All questions should be submitted a minimum of two (2) working days prior to the bid opening date.			
PRINTED/TYPED SIGNATURE	AUTHORIZED SIGNATURE (ORIGINAL SIGNATURE ONLY) (Please sign in blue ink)		DATE

The original signed bid must be submitted to the Office of Procurement Services by 1:00 o'clock p.m. on the above listed opening date to receive consideration for award. It is requested that the bidder not sign their bid in black ink. Bidder certifies, by signature affixed to its bid, that the information provided by it in its bid including the certified statements, is accurate and complete. Bidder declares to have read and understood and agrees to be bound by all of the instructions, terms, conditions and specifications of this Invitation to Bid and agrees to fulfill the requirements of any awarded contract at the prices bid.

SPECIAL TERMS AND CONDITIONS

AMENDMENTS TO CONTRACT TERMS AND CONDITIONS: The following Amendments to the Contract Terms and Conditions do hereby become a part hereof. In the event that an amendment conflicts with the Contract Terms and Conditions, the Amendment will prevail.

LITERATURE: Descriptive literature and technical data are crucial to the state's evaluation. Therefore, all bidders should submit a complete description, including guaranteed specifications and any or all technical data sufficient, in the opinion of the Business Unit Office, to reasonably and properly evaluate all bids. This information should include notations of deviations from specifications and/or additions that will be made to satisfy the specifications furnished with this bid. Any deviations taken from these specifications should be listed on company letterhead, describing in detail, the nature of the deviation. In the event the required literature and information are not submitted with the bid, the bidder will be required to provide the information within two (2) business days after notification. Failure to provide the information within the stated time period will result in the bidder being deemed as not responsive

BRAND SPECIFIC: The product(s) specified in this bid is/are being bid as Brand Specific or approved equal. That signifies that use of a brand name or approved equal specification is used to establish a baseline of measurement for the supplies being purchased. Bid is in accordance with the Ohio Administrative Code 123:5-1-10 (I).

EVALUATION: As time is a factor in award, this bid will be evaluated based upon the price and the anticipated delivery of the equipment, as specified, with all specified optional equipment installed, operational and adjusted to factory specifications. If the requested equipment is unavailable from the lowest responsive and responsible bidder by the required delivery date, ODNR reserves the right to award to the lowest responsive and responsible bidder meeting delivery requirements.

CONTRACT AWARD: The contract will be awarded to the lowest responsive and responsible bidder by line item. Delivery dates may be a factor, therefore line item awards may be split between multiple bidders. Bidders are not required to bid on every line item. Award may be based on pricing and delivery ARO.

DELIVERY AND ACCEPTANCE: Supplies will be delivered to the participating agency no later than June 11, 2014 and, in accordance with paragraphs S-8, S-9, and S-10 of the SUPPLEMENTAL CONTRACT TERMS AND CONDITIONS. The delivery location will be noted on the purchase order. Acceptance (transfer of title) will occur upon the inspection and written confirmation that the supplies delivered conform to the requirements set forth in the ITB. Unless otherwise provided in the Contract, acceptance shall be conclusive except as regards to latent defects, fraud, or such gross mistakes as amount to fraud.

DELIVERY AND OPTIONAL EQUIPMENT CHARGES: Bidders should include all delivery and optional equipment charges with the unit price of their bid response. The "Ship To" location is provided on page 1 to allow bidders to determine the delivery charge to include with the unit price.

TRAINING: Upon delivery of the Excavators and Dump Trucks, the successful Contractor shall provide the ODNR with at least three (3) hardcopies – and, if available, one electronic copy – of all materials relevant to the operation and/or maintenance of the assets and their associated equipment (i.e., technical manuals, specification sheets, user guides, etc.).

At a date and time specified by ODNR, the Contractor shall coordinate instruction and an orientation/training session, regarding the Excavator and Dump Truck operation, to ODNR staff. The content and duration of the orientation/training will be agreed upon by the successful Contractor and the ODNR Field Managers. The orientation/training session shall be provided at an agreed upon ODNR location. The written training material shall be the property of ODNR.

SERVICE POLICY AND WARRANTY: The Contractor(s) shall furnish with the equipment the manufacturer's owner service policies and warranties for the item(s) awarded.

- A. The warranty for the 50-Ton, Self-Lifting trailer shall be the manufacturer's standard structural warranty.
- B. The warranty for the 25-Ton and 20-Ton Tag Loader shall be the manufacturer's standard structural warranty.
- C. The warranties for the excavator should include a 12 months base price warranty with full machine coverage, plus. Powertrain and hydraulics, extended service coverage out to a total of 36-month or 3,000 hours, whichever comes first, with no deductible on all items covered.
- D. The warranty for the Diesel Semi-Tractors shall be the manufacturer's standard warranty.
- E. The warranty for the Tandem Dump Truck shall be the manufacturer's standard warranty.

SPECIAL CONTRACT TERMS AND CONDITIONS (Cont'd.)

SERVICE: The motor vehicles, where applicable, will be completely dealer-serviced and conditioned as per the manufacturer's pre-delivery recommendations and all equipment is to be completely installed with all adjustments made which are required to prepare the vehicle for immediate and continuous operation upon delivery. Unit shall conform to all current Federal Safety Regulations including OSHA.

SERVICE POLICY: The successful bidder shall furnish with each motor vehicle delivered, or within three (3) days after delivery of the vehicle, the Manufacturer's Owner Service Policy. In addition, the Owner's Service Policy shall be recognized and accepted by all authorized dealers within the boundaries of the state of Ohio regardless of the location of the District or Regional Headquarters under which the vehicle operates.

CERTIFICATE OF TITLE: The contractor is to furnish the Certificate of Title for the new dump trucks and semi-tractors, and deliver the Certificate of Title within ten (10) days after delivery of the vehicle. Unit is to be titled and registered as to:

Ohio Department of Natural Resources
2045 Morse Rd
Columbus, OH 43229

AGENCY REGISTRATION: The contractor shall, when applicable, furnish the Title Documents for each new vehicle and deliver to the ODNR. The contractor shall deliver with the necessary papers, a \$5.00 per vehicle filing fee at time of vehicle(s) delivery to any agency authorized to complete their own title registration.

ADVERTISEMENT: Dealer name-signs shall not be affixed to any part of the delivered vehicle.

AUTOMOBILE LIABILITY CHECKLIST: Automobile Insurance is required for anyone coming onto State Property to deliver goods or to perform services using a vehicle, which is owned, leased or rented by the Contractor. Any Bidder, Broker or Sub Contractor who will be on State Property, but not delivering goods or performing services, is required to carry Automobile Liability insurance that complies with the State and Federal laws regarding financial responsibility.

- Bidder/Broker ("The Contractor") or their Sub Contractor will make delivery or be performing services using a vehicle that is owned, leased or rented. Provide Certificate of Insurance documenting automobile liability with a Combined Single Limit of \$500,000.00.
- Goods/Services will be delivered via common carrier.
- No employee or representative of the contractor will have cause to be on state property to make deliveries or to perform services.

DISCLOSURE OF SUBCONTRACTORS / JOINT VENTURES (See Standard Contract Terms and Conditions, Section (roman numeral) V, General Provisions, Paragraph Q):

List names of subcontractors who will be performing work under the Contract.

_____	_____
_____	_____
_____	_____

By the signature affixed to Page 1 of this Bid, Bidder hereby certifies that the above information is true and accurate. The Bidder agrees that no changes will be made to this list of subcontractors or locations where work will be performed or data will be stored without prior written approval of DAS.

Any attempt by the Bidder/Contractor to change or otherwise alter subcontractors or locations where work will be performed or locations where data will be stored, without prior written approval of ODNR, will be deemed as a default. If a default should occur, ODNR will seek all legal remedies as set forth in the Terms and Conditions which may include immediate cancellation of the Contract. Failure to complete this requirement may deem your bid not responsive.

SPECIFICATIONS AND PRICE SCHEDULE

SCOPE: The Department of Natural Resources is issuing this Invitation to Bid (ITB) to purchase two (2) excavators, two (2) diesel tandem dump trucks, (2) diesel semi-tractors, one (1) 20-ton tag trailer, one (1) 25-ton tag trailer and one (1) 50 ton self-lifting detachable trailer. Excavators, heavy dump trucks, and trailers are the primary response equipment for safety related repairs to more than 70 dams administered by ODNR.

The equipment requested will also be used by the division for in-house construction and repair projects. Excavators, heavy trucks and other heavy construction equipment are hauled from worksite to worksite. Replacing water lines, improving trailheads, placing shoreline rip-rap, removing storm damaged trees, constructing campsite pads, trail repair and construction, repairing roadways and cleaning beaches are among the tasks that are facilitated with this equipment. Work is performed at all 74 state parks and many state nature preserves. These purchases will replace equipment obtained in the early 1990s.

EXCAVATOR 1

ITEM NO.	QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED AMOUNT
1.	1	EA	EXCAVATOR WITH FACTORY AND DEALER INSTALLED OPTIONS, JOHN DEERE POWER 160G LC OR EQUAL	\$	\$

MANUFACTURER IDENTIFICATION OF COMMODITY: All bidders are to indicate in the spaces below the manufacturer's name, model, and brand or style number for product bid. Failure to comply with this stipulation may result in the bidder being deemed not responsive.

Manufacturer / Model of the excavator: _____

Days to Deliver After Receipt of Order: _____

All equipment and/or materials shall be new and unused.

DATA SHEET: Shown below is the specification requirements for equipment that the State desires to purchase. These specifications are only considered as necessary to establish functional requirements. Proprietary design, exact dimensions, capacities, or restrictive features will not preclude acceptance of other recognized alternates meeting comparable performance requirements as determined by the State. Bidder signifies compliance or non-compliance with specifications by listing and outlining all deviations from specifications on company letterhead and returning it with the bid. Failure to comply may deem the bid not responsive.

<u>YES</u>	<u>NO</u>	<u>MINIMUM REQUIREMENTS</u>
_____	_____	John Deere Power 160G LC, 2014 model Excavator, or equal
_____	_____	Engine – John Deere PowerTech PVX 4.5L certified to IT4/Stage IIIB, or equal
_____	_____	English Decals and Customer Delivery Packet
_____	_____	JD Link Ultimate Cellular for the Americas
_____	_____	28" triple semi-grouser shoes
_____	_____	Standard Mechanical Seat
_____	_____	One Piece Boom with Arm Cylinder and Plumbing
_____	_____	10' 2' Arm with Bucket Cylinder and Linkage
_____	_____	Less Auxiliary Hydraulics
_____	_____	Less Buckets
_____	_____	Fuel Filter, Severe Duty
_____	_____	Engine Block Heater

SPECIFICATIONS AND PRICE SCHEDULE (Cont'd)

EXCAVATOR 1

- _____ _____ Automatic Reversing Cooling Fan
- _____ _____ Mechanical Control-Pattern Selector

Equipment shall be priced and delivered with the following factory and dealer options installed.

- _____ _____ 2-way Auxiliary Hydraulics
- _____ _____ 35 SLH JRB Coupler, or equal
- _____ _____ Werk-Brau Hydraulic Thumb, or equal
- _____ _____ 36" Bucket Esco Teeth, or equal
- _____ _____ 72" Ditch Bucket BOCE, or equal

EXCAVATOR 2

ITEM NO.	QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED AMOUNT
2.	1	EA	NEW MODEL YEAR EXCAVATOR WITH FACTORY AND DEALER INSTALLED OPTIONS, CATERPILLAR 312EL OR EQUAL	\$	\$

MANUFACTURER IDENTIFICATION OF COMMODITY: All bidders are to indicate in the spaces below the manufacturer's name, model, and brand or style number for product bid. Failure to comply with this stipulation may result in the bidder being deemed not responsive.

Manufacturer / Model of the excavator: _____

Days to Deliver After Receipt of Order: _____

All equipment and/or materials shall be new and unused.

DATA SHEET: Shown below is the specification requirements for equipment that the State desires to purchase. These specifications are only considered as necessary to establish functional requirements. Proprietary design, exact dimensions, capacities, or restrictive features will not preclude acceptance of other recognized alternates meeting comparable performance requirements as determined by the State. Bidder signifies compliance or non-compliance with specifications by listing and outlining all deviations from specifications on company letterhead and returning it with the bid. Failure to comply may deem the bid not responsive.

YES NO MINIMUM REQUIREMENTS

- _____ _____ Caterpillar 312EL, 2014 model Hydraulic Excavator, or equal
- _____ _____ Engine – Diesel Engine C4.4 capable of low idle shutdown, Tier 4 interim emission package for NACD, Radial seal air filter, secondary engine shutoff switch, automatic engine speed control, Electric fuel lifting pump.
- _____ _____ Undercarriage - Towing eye on base frame-lubricated seats. resin seal type 2-Track type undercarriage with grease
- _____ _____ Electrical - 80 amp alternator-Light, Integrated into storage box-Horn, signaling/warning
- _____ _____ Operator Environment - Cab: Capability of time clock, Beverage holder, on monitor battery, Coat hook, (lasts 1 week w/disconnect) Interior lighting, Color LCD display, Literature holder, rear view camera ready, Utility space for magazine, Machine condition error code and Open able skylight-tool mode setting information-, Radio mounting (meets DIN size), Start-up level check for hydraulic-suitable for 24-Volt Radios-oil, engine oil and engine coolant, Two stereo speakers, filter/fluid change warning, water - Sliding upper door window-level and working hour information on the left hand cab door, Neutral lever for all controls, Storage shelf suitable for lunch box, Pedal - Glass breaking safety hammer, Capability to install 2 additional pedals, Pressurized operator

SPECIFICATIONS AND PRICE SCHEDULE (Cont'd)

EXCAVATOR 2

Station, Travel control with removable (Positive Filtration) hand levers, Removable lower windshield-Seat, with cab storage bracket- Adjustable armrest, Two power outlets, 10 amp (total)- Height adjustable consoles, Monitor.

_____ Other Standard Equipment - Automatic swing parking brake-4 micron secondary filter in fuel line-Capability of installing additional-Mirrors, rearview (frame -right,-auxiliary pump and circuit-cab-left)- Capability of installing boom and stick-Regeneration circuit for boom and stick-lowering control device- Reverse swing damping valve-Compatible with Electronic Technician-Two speed travel-Caterpillar one key security system-2 SBS radiator for easy cleaning-Circuit breaker-Capability of installing-Door locks and cap locks of-CAT Bio hydraulic oil-fuel and hydraulic tanks-Capability of using Bio diesel fuel-Lockable external tool/ storage box-Capability to electrically-High performance hyd. return filter-connect a beacon-75 micron screen-Power edge trade dress with power-10 micron primary fitter-edge decals and black cylinders.

_____ Machine Specifications – Pin Group, Spare, Light, R Boom, Coupler, Hydraulic Pin Grabber, Changer, Hand Control 2-way, Seat, H-Back, W/heater, S/Air, Lighting, Cab (Halogen), Air Cleaner, Standard, Track, 30" TG W/Step (GLT), Lines, Connector, Valve, Hydraulic TCS, Control Center-Lock Coupler, Washer, Windshield Upper/Lower, Tank Fuel, Counterweight, 4,850 lbs, Bucket – Go, 36" 0.69 CYD, Guard Vandalism Pkg, Panel, Std. start switch, Tool Ctrl, MP Pkg, Cooling, High Ambient Pkg, Cab Std. Pkg, Thumb GP, Support, Aux Lines, R-Boom, R Boom, 9'10" Stk HD Pkg Thumb, R Cylinder Pkg, Lines HP Pkg (R-BM/9'10" STK), LINES-MP PKG (R-BM/9'10" STK), LINES-QC PKG (R-BM/9'10" STK), Frame, Base, Long U/C, Swivel, Standard, Guard HD Botiom Pkg, Regional Pkg Regulated, Tip, Long, Instructions, English, Instruction, North America, Lane 3 Order.

_____ Warranty – 12 Month/unlimited hours Full Machine

DUMP TRUCKS

ITEM NO.	QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED AMOUNT
3.	2	EA	DIESEL TANDEM DUMP TRUCKS	\$	\$

MANUFACTURER IDENTIFICATION OF COMMODITY: All bidders are to indicate in the spaces below the manufacturer's name, model, and brand or style number for product bid. Failure to comply with this stipulation may result in the bidder being deemed not responsive.

Manufacturer / Model of the dump trucks: _____

Days to Deliver After Receipt of Order: _____

All equipment and/or materials shall be new and unused.

DATA SHEET: Shown below is the specification requirements for equipment that the State desires to purchase. These specifications are only considered as necessary to establish functional requirements. Proprietary design, exact dimensions, capacities, or restrictive features will not preclude acceptance of other recognized alternates meeting comparable performance requirements as determined by the State. Bidder signifies compliance or non-compliance with specifications by listing and outlining all deviations from specifications on company letterhead and returning it with the bid. Failure to comply may deem the bid not responsive.

<u>YES</u>	<u>NO</u>	<u>MINIMUM REQUIREMENTS</u>
_____	_____	Diesel Tandem Dump Truck, 2014 model
_____	_____	Cab Type <ul style="list-style-type: none"> a. Day Cab, conventional with tilt hood b. Integral fenders c. Splash and spray control system d. Fender liners e. Aluminum or fiberglass

SPECIFICATIONS AND PRICE SCHEDULE (Cont'd)DUMP TRUCKSCab Interior

- a. Gray Interior Trim Color
- b. National economy air suspension high-back driver's seat including dual arm rests
- c. National stationary tool box high back passenger seat including dual arm rests
- d. Vinyl seat upholstery
- e. Cab floor mats (left and right)
- f. Interior sun visor above left and right side doors
- g. Glove box drawer with locking latch
- h. Under-dash center console with two (2) cup holders and 2 – 12 volt outlets
- i. Standard interior cab lighting (over doors, rear headliner, etc.)
- j. Electric window controls, left and right side
- k. Electronic door locks (left/right)
- l. Integral air conditioning w/heater-defroster, manual controls
- m. Parking heater
- n. Electronic 2 speed windshield wiper/washer w/intermittent speed control
- o. Standard gauge package to include speedometer, tachometer, amp gauge, oil pressure gauge, fuel gauge, water temperature gauge, transmission oil temperature gauge, minimum
- p. Dash-mounted air cleaner restriction gauge
- q. Dash-mounted air supply pressure gauge
- r. Dash-mounted air application pressure gauge
- s. Dash-mounted parking brake applied warning light
- t. In-dash driver message center, electronic engine test switch
- u. Re-set type circuit breaker system
- v. AM/FM stereo radio with weather band 10
- w. Mounted speakers, one each side, minimum
- x. 18" sport type steering wheel
- y. Tilt and telescopic steering column
- z. Turn signal switch column mounted dimmer including intermittent wiper control
- aa. SRS driver-side air bag
- bb. Basic key system, ignition/doors keyed alike, minimum of 10 keys provided
- cc. Triangle reflector kit and 5lb ABC dry type fire extinguisher, mounted in-cab
- dd. Electric signal horn
- ee. Dual round, painted under-cab air horn

Front Axle

- a. Dana-Spicer EFA-20F4 20K STD Tr or equivalent
- b. Front brake Dana Spicer ES 16.5x6 max cap 22k or equivalent
- c. Single dust shields
- d. Front brake drum 16.5x6, cast
- e. Front hub assembly 16.5, iron 11.25 in BC 10-bolt
- f. Front oil seals F/axles over 14.6 spoke
- g. Hubcap, Chicago rawhide or equivalent
- h. Front automatic slack adjusters (Bendix or equivalent)
- i. Front Spring: taperleaf 18k with shock absorbers
- j. Power steering: dual gear TRW TAS65 20k 2ith 9 quart reservoir or equivalent

Rear Axle

- a. Dana Spicer D40-170 40k dual or equivalent
- b. Rear axle ratio 4.10
- c. Rear Brake: Dana Spicer ES S-cam 16.5x7 dual 46k max extended service or equivalent
- d. Rear brake drum: cast, Scam dual
- e. Rear Hub: Al hub pilot dual 11.25in BC, Dana LMS Hub Package max axle capacity 46K or equivalent
- f. Rear automatic slack adjusters (Bendix dual or equivalent)
- g. Spring break,MGM TR dual
- h. Rear dust shields 16.5x7 s-cam dual
- i. ABS: Inverted brake chambers to 52k
- j. Wheel differential lock D40-170 (P)/D46-170(H) or equivalent
- k. Chalmers 854-40H 40K dual 54in AS or equivalent
- l. Eaton Crosslock -40k-52k FWD RR/RR/RR or equivalent

SPECIFICATIONS AND PRICE SCHEDULE (Cont'd)DUMP TRUCKSChassis

- a. 167" wheelbase
- b. Front axle load 18,000lbs
- c. Rear axle load 40,000lbs
- d. GCW 50,000lbs
- e. Bendix AD-IS Heated air dryer (or equivalent)
- f. Steel air tanks
- g. Moisture ejection valve w/pull cable drain
- h. (2) Two fuel tanks, one mounted each side 100 gallons ea. unpainted aluminum
- i. Painted steel fuel tank strap lines, non locking fuel cap
- j. Nylon fuel and air supply lines
- k. Rubber rear mudflaps
- l. Steel straight painted mudflap hangers
- m. (2) Two front towing hooks
- n. Trailer ABS electric supply w/7pin connector

Wheels and Tire - Front

- a. Aluminum 22.5 x 12.25 hub pilot mount ISO super single wheels
- b. 425/65R 22.5 20PR Bridgestone M844F tires or equivalent

Wheels and Tire - Drive

- a. Aluminum 22.5 x 8.25 Hub pilot mount ISO "new generation" wheels
- b. 11R22.5 14PR Bridgestone M726 tires or equivalent
- c. 42.1in diameter extra deep tread Hwy Dr solid shoulder 30/32 tread dep

Paint

- a. Single color (dark green metallic) cab color-Award recipient must provide color chart for final determination.
- b. Standard manufacturers paint type
- c. Chassis color-black
- d. Bumper color-same as cab or aluminum unpainted

Lighting

- a. 5 amber marker lamps integrated into sun-visor over windshield
- b. Dash mounted marker interrupter switch
- c. Halogen headlamps with Daytime running lights
- d. Dual integrated series 60 incandescent tail-lights w/separate backup light, all mounted in tapered cross member
- e. Interior controlled, single rear exterior light, center mounted

Transmission/Clutch

- a. FLR RTO 14910BAS2 10-speed Auto-shift GEN2 transmission or equivalent
- b. FLR 15.5" HD SOLO 7 spring ceramic clutch w/easy pedal or equivalent
- c. Torque limiting clutch brake
- d. Greaseable release bearing Heavy duty driveline (1) with NO CENTER BEARING
- e. Severe duty pilot bearing
- f. Magnetic filler plug
- g. Synthetic fluids

Engine and Equipment

- a. Diesel Engine,
- b. Min. horsepower 370 @ 2100 rpm, minimum torque 1350 ft. lbs. @ 1200 rpm
- c. Auto-resume cruise control system
- d. Gear down protection system
- e. 1400 rpm maximum PTO speed
- f. Air compressor 18.7 CFM Cummins or equivalent
- g. Air cleaner Don 2500 Engine-mounted/cowl inlet or equivalent
- h. Fan hub Horton, Drivemaster, Cummins or equivalent
- i. Radiator 1200 sq. in
- j. Lower radiator drain valve
- k. Fan blade

SPECIFICATIONS AND PRICE SCHEDULE (Cont'd)DUMP TRUCKS

- l. Exhaust single cab right side mounted, partial aluminum muffler shield and 36" single exhaust pipe
- m. Fuel Filter FS1000 NOT ISB/C/X, SIGN 600 or equivalent
- n. Engine block heater immersion type 110-120v/1500w with standard conventional plug located under door
- o. Low coolant level sensor ISB,ISM & ISX or equivalent
- p. Engine Retarder, Jacobs ISM or equivalent
- q. Alternator 135 amp minimum
- r. Batteries: 3-12v group 31THR 1950 CCA
- s. Starter: 12v 42mt

Miscellaneous

- a. Air operated power take off unit-dash mounted
- b. Full truck plumbing of air service lines to include trailer service connections at rear of truck (glad hands)
- c. One complete set of service and parts manuals

Cab Exterior

- a. Exterior sun-visor w/integral marker lights
- b. Air ride cab suspension system
- c. Standard rear window
- d. Standard wiper blades
- e. Bug screen located behind grill
- f. Black vocational mirrors with long arms, electric operated
- g. Heated power axis mirror, both sides
- h. Convex wide angle mirror, both sides
- i. Down view mirror over passenger door

Dump Body

- a. Heil Dump body package
- b. Full-welded body shell construction
- c. Primed and painted to match tractor
- d. 14' length with AN 2824 hoist
- e. 12/14.5 yard capacity, 40 in sides, 48 in front, 48 in tailgate
- f. 1/4" Hi-tensile steel floor, 8 gauge tailgate, sides and front
- g. Double arm-Twin 8" cylinder hoist (power up only)
- h. Air shift hoist control
- i. Cross members on 12" centers
- j. Asphalt apron
- k. Double acting tailgate chain kit
- l. Heavy duty upper hardware
- m. Full size 8 gauge cab shield
- n. HH rear corner in lieu of standard (16" width)
- o. Heil standard interlaced understructure design
- p. 9 panel tailgate design
- q. 8" oak painted side boards installed full length each side with 8" center board pockets
- r. 2 sets rear mud flaps, one each in front and behind rear axle
- s. Grip strut installed full length each side
- t. Grip handle installed each side front and rear
- u. Underbody step installed each side front and rear (total of 4)
- v. 3/4" pintle plate installed with 2 D-rings installed
- w. 45 ton Wallace Forge air cushion pintle hook, or equal, installed 29" above ground
- x. 2 lift D-rings installed on top rail of tailgate
- y. 1/4" understructure in lieu of standard

SPECIFICATIONS AND PRICE SCHEDULE (Cont'd)

DIESEL SEMI-TRACTORS

ITEM NO.	QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED AMOUNT
4.	2	EA	DIESEL SEMI-TRACTORS	\$	\$

MANUFACTURER IDENTIFICATION OF COMMODITY: All bidders are to indicate in the spaces below the manufacturer's name, model, and brand or style number for product bid. Failure to comply with this stipulation may result in the bidder being deemed not responsive.

Manufacturer / Model of the tractors: _____

Days to Deliver After Receipt of Order: _____

All equipment and/or materials shall be new and unused.

DATA SHEET: Shown below is the specification requirements for equipment that the State desires to purchase. These specifications are only considered as necessary to establish functional requirements. Proprietary design, exact dimensions, capacities, or restrictive features will not preclude acceptance of other recognized alternates meeting comparable performance requirements as determined by the State. Bidder signifies compliance or non-compliance with specifications by listing and outlining all deviations from specifications on company letterhead and returning it with the bid. Failure to comply may deem the bid not responsive.

<u>YES</u>	<u>NO</u>	<u>MINIMUM REQUIREMENTS</u>
_____	_____	Diesel Semi-Tractor, 2014 Model or Newer
_____	_____	Cab Type <ul style="list-style-type: none"> a. Day Cab, conventional with tilt hood b. Integral fenders c. Splash and spray control system d. Fender liners e. In cab release
_____	_____	Cab Interior <ul style="list-style-type: none"> a. Manufacturer standard interior trim color b. National economy air suspension high back driver seat c. National stationary tool box high back passenger seat Vinyl seat upholstery d. Inboard driver seat armrest e. Electric window controls, left and right side f. Integral air conditioning w/ heater, manual controls g. Parking heater h. Standard gauge package to include speedometer, tachometer, amp gauge, oil level gauge, fuel gauge, water temperature gauge, axle temperature, transmission temperature minimum j. In dash- Driver message center k. Re-set type circuit breaker system l. AM/FM stereo radio with weather band10 m. Dash mounted speakers, one each side minimum n. 18" sport type steering wheel o. Tilt and telescopic steering column p. SRS driver side air bag q. Log book holder r. Standard interior storage area s. Basic key system, minimum of ten (10) keys provided t. Triangle reflector kit and Sib ABC dry type fire extinguisher, mounted in cab
_____	_____	Front Axle <ul style="list-style-type: none"> a. 16,000lb capacity easy steer or equivalent b. 15" x 4" front brake size, Arvin Meritor Q+ series S-Cam or equivalent c. Basic length and stroke brake chambers, front and rear

SPECIFICATIONS AND PRICE SCHEDULE (Cont'd)DIESEL SEMI-TRACTORS

- d. Haldex or equivalent automatic slack adjusters front and rear
- e. TRW TAS65 or equivalent integral power steering gear
- f. 59" parabolic leaf front suspension matched to front axle capacity
- g. Visible front axle oil seal cap
- h. Dana Spicer outrunner front oil seals or equivalent
- i. Petroleum based front axle lubricant

 Rear Axle

- a. 46,000lb capacity or equivalent
- b. 3.90 rear axle ratio
- c. Full locking wheel differential-cab operated, air actuated
- d. 38K lb LT WT Volvo air suspension w/52" spacing or equivalent
- e. 16.5" x 7" rear brake size, Meritor Wabco 4 channel ABS or equivalent
- f. Two cam type MGM brake system
- g. Stemco drive oil seals or equivalent
- h. Synthetic rear axle lubricant

 Chassis

- a. 187" wheelbase
- b. Steel rails must be high tensile steel, 110,000 lb psi. Intermediate crossmember must be steel
- c. FWD rear suspension crossmember must be steel
- d. 27 degree taper on rear crossmember
- e. Meritor Wabco system saver 1200 series air dryer with replaceable filter or equivalent
- f. Steel air tanks
- g. Petcock air tank drain valve
- h. ASF Simplex lite air slide LH release fifth wheel or equivalent
- i. Successful bidder must check with ODNR to determine correct fifth wheel height
- j. and location behind FWD axle center.
- k. 12.0" fifth wheel travel
- l. (2) Two fuel tanks, one mounted each side 100 gallons ea., unpainted aluminum
- m. Painted steel fuel tank strap lines, non-locking fuel cap
- n. Nylon fuel lines
- o. Dummy gladhands & cable storage brkt LH BOC reachable from ground
- p. Cab mounted trailer brake connection
- q. Fixed trailer cable
- r. 12' straight trlr brake hoses and cable to accept trailer ABS system
- s. Full pressure trailer brake hand control1 cab mounted
- t. Battery box located on left hand side1 behind front fender1 with composite cover
- u. Steel aero bumper without caps or air dam-painted to match
- v. Rubber rear mudflaps (logo optional)
- w. Steel straight painted mudflap hangers
- x. (2) Two front towing hooks1 one center tow pin (front)

 Wheels and Tires - Front

- a. Aluminum hub piloted with Jug covers and chrome caps
- b. Aluminum preset front axle hubs
- c. Cast iron front brake drums, outboard mounted

 Wheels and Tires - Drive

- a. Aluminum, hub piloted with lug covers and chrome caps
- b. Aluminum drive axle hubs
- c. Cast iron drive brake drums1 outboard mounted
- d. Low profile rear tires

 Paint

- a. Single color (dark green metallic) cab color - Award recipient must provide color chart for final determination.
- b. Standard manufacturers paint type
- c. Chassis color-black
- d. Bumper color-same as cab or aluminum unpainted

SPECIFICATIONS AND PRICE SCHEDULE (Cont'd)DIESEL SEMI-TRACTORS

Lighting

- a. 5 amber marker lamps
- b. Dash mounted marker interrupter switch
- c. Halogen headlamps with Daytime running lights
- d. LED Tail and stop lights
- e. Non canceling turn signal switch
- f. Interior controlled, dual rear exterior lights

Transmission/Clutch

- a. Eaton Fuller 18 speed or equivalent w/fixed gear shift lever, synthetic lubricant and water to oil transmission cooler
- b. Spicer or equivalent drive line manufacturer

Engine and Equipment

- a. 500 HP engine minimum
- b. One piece valve cover
- c. Optimized engine idle control
- d. 16" single stage air cleaner, dry type with side air intake-replaceable filter
- e. 1240 sq. in. 2 row core radiator w/fan shroud ring minimum. Aluminum radiator with coolant (antifreeze) @-20 F (-29 C)
- f. 120v engine block heater w/quick connect plug mounted to left side of cab below door (rear)
- g. Viscous fan clutch or equivalent
- h. 12v gear reduction starter
- i. Delco Remy 12volt 100 amp, 22 SI alternator or equivalent
- j. 3-maintenance free 12volt 1900 CCA batteries
- k. Single RH outboard vertical muffler
- l. 12' 6" Aluminized steel single stack with straight end
- m. Aluminized steel lower exhaust piping
- n. Aluminum exhaust shield
- o. Racor 6901fuel water separator or equivalent
- p. Spin on type secondary fuel filter
- q. Spin on type water filter/conditioner
- r. Wabco 18.7 CFM air compressor or equivalent
- s. exhaust pressure governor engine brake or equivalent
- t. Rocker cover engine oil check and fill

Miscellaneous

- a. Wet line hydraulic system, cab controlled, air/hyd actuated
- b. System must be 15 gpm,3000 psi max, w/12 gallon aluminum hydraulic reservoir minimum
- c. Quick disconnect couplers, 3/4" female pressure, 3/4" male return to extend from pump to rear of chassis. System operates detachable gooseneck lowboy trailer.
- d. 3/4" hydraulic high pressure hose suction line 1 1/4" from tank to pump
- e. Air operated power take off unit, multidirectional power forward and reverse.
- f. External frame mounted (behind cab) winch unit, hydraulic, cab activated with remote-hand held controls. Maximum line pull w/full drum @ 34,000 lbs.
- g. Continuous duty rating ft./lb. per minute= 70,000 lbs. Maximum drum RPM-13.
- h. Stainless steel rear renders located over axles
- i. One complete set of service and parts manuals.

SPECIFICATIONS AND PRICE SCHEDULE (Cont'd)

DIESEL SEMI-TRACTORS

- _____ Cab Exterior
- a. Aerodynamic cab side extenders
- b. Air ride cab suspension system
- c. Standard rear window
- d. Standard wiper blade
- e. Black molded front grill
- f. Bug screen located behind grill
- g. Electrically operated air horn, located under hood
- h. Black vocational mirrors with long arms, electric operated
- i. Heated power axis mirror, both sides
- j. Convex wide angle mirror, both sides
- k. Down view mirror over passenger door

20 TON TAG TRAILER

ITEM NO.	QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED AMOUNT
5.	1	EA	20 TON TAG TRAILER WITH ADDITIONAL OPTIONS, EAGER BEAVER 20XPT OR EQUAL	\$	\$

MANUFACTURER IDENTIFICATION OF COMMODITY: All bidders are to indicate in the spaces below the manufacturer's name, model, and brand or style number for product bid. Failure to comply with this stipulation may result in the bidder being deemed not responsive.

Manufacturer / Model of the trailer: _____

Days to Deliver After Receipt of Order: _____

All equipment and/or materials shall be new and unused.

DATA SHEET: Shown below is the specification requirements for equipment that the State desires to purchase. These specifications are only considered as necessary to establish functional requirements. Proprietary design, exact dimensions, capacities, or restrictive features will not preclude acceptance of other recognized alternates meeting comparable performance requirements as determined by the State. Bidder signifies compliance or non-compliance with specifications by listing and outlining all deviations from specifications on company letterhead and returning it with the bid. Failure to comply may deem the bid not responsive.

<u>YES</u>	<u>NO</u>	<u>MINIMUM REQUIREMENTS</u>
_____	_____	20 Ton Tag Trailer, Eager Beaver 20 XPT, or equal
_____	_____	Capacity – 40,000 lbs.
_____	_____	Deck Width – 8' 6" Length – 19' Height – 34"
_____	_____	Trailer Weight – 8,380 lbs.
_____	_____	Hi-Tensile V-50 Steel Mainframe
		a. Main-rails: W14" x 22 lbs. wide flange I-Beam, one-piece cold formed Hi-Tensile 50,000 P.S.I. steel main-rails from front to drawbar to rear of trailer
		b. Cross-members: 6" x 3.7 lbs. per ft. I-Beam, pierced through main beam
		c. Decking: Nominal 2" hardwood decking
		d. Lights: Sealed LED, 12 volt, DOT approved
		e. Wiring Harness: USA Star PLUS Sealed Modular Wiring harness w/7-way ATA plug, or equal
		f. Hitch: One piece solid cast steel (adjustable) lunette eye and flange mount
		g. Safety Chains: Two (2) ½" Blue-Krome plated high test, safety hook with latch
		h. Parking Jack: 70,000 lbs. static / 40,000 lbs. lift (heavy duty 2-speed screw type)
		i. Tie Down: Five per side
		j. Color: Black

SPECIFICATIONS AND PRICE SCHEDULE (Cont'd)

20 TON TAG TRAILER

- _____ _____ Heavy Duty Jack
- _____ _____ Drawbar Storage Area
- _____ _____ 8 degree Extension Ramp
- _____ _____ Running Gear
 - a. Tires: Eight (8) 215/75R 17.5 (H) steel belted radial tires
 - b. Hubs/Wheels: Four (4) disc type hubs, eight (8) 6.75 x 17.5, 8-bolt, hub-piloted disc wheels
 - c. Suspension: Hutch H-9700, Three leaf, capacity 50,000 lbs. tandem or equal
 - d. Axels: Two (2) 5" diameter 22,500 lbs. ea., H.M. series bearings (maximum axle track width)
 - e. All Wheels ABS: Anti-lock brake system, 4S2M sensor, all wheels, two (2) modular valves
 - f. Parking brake: Spring brake on all axels

Equipment shall be priced and delivered with the following factory and dealer options installed.

- _____ _____ Additional Deck Length: 21'
- _____ _____ Tool Box Lid (Lockable)
- _____ _____ Ramps (Ladder type)

25 TON TAG TRAILER

ITEM NO.	QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED AMOUNT
6.	1	EA	25 TON TAG TRAILER WITH ADDITIONAL OPTIONS, EAGER BEAVER 20 XPL OR EQUAL	\$	\$

MANUFACTURER IDENTIFICATION OF COMMODITY: All bidders are to indicate in the spaces below the manufacturer's name, model, and brand or style number for product bid. Failure to comply with this stipulation may result in the bidder being deemed not responsive.

Manufacturer / Model of the trailer: _____

Days to Deliver After Receipt of Order: _____

All equipment and/or materials shall be new and unused.

DATA SHEET: Shown below is the specification requirements for equipment that the State desires to purchase. These specifications are only considered as necessary to establish functional requirements. Proprietary design, exact dimensions, capacities, or restrictive features will not preclude acceptance of other recognized alternates meeting comparable performance requirements as determined by State. Bidder signifies compliance or non-compliance with specifications by listing and outlining all deviations from specifications on company letterhead and returning it with the bid. Failure to comply may deem the bid not responsive.

YES	NO	<u>MINIMUM REQUIREMENTS</u>
_____	_____	25 Ton Tag Trailer, Eager Beaver 20 XPL, or equal
_____	_____	Capacity – 50,000 lbs.
_____	_____	Deck Width – 8' 6" Length – 22' Height – 34"
_____	_____	Trailer Weight – 11,720 lbs.
_____	_____	Cold-Formed Drawbar and Nose Plate

SPECIFICATIONS AND PRICE SCHEDULE (Cont'd)

25 TON TAG TRAILER

- _____ _____ Hi-Tensile V-50 Steel Mainframe
 - a. Main-rails: W14" x 26 lbs. wide flange I-Beam, one-piece cold formed Hi-Tensile 50,000 P.S.I. steel main-rails from front to drawbar to rear of trailer
 - b. Cross-members: 6" x 9 lbs. per ft. I-Beam, pierced through main beam
 - c. Decking: Nominal 2" hardwood decking
 - d. Lights: Sealed LED, 12 volt, DOT approved
 - e. Wiring Harness: USA Star PLUS Sealed Modular Wiring harness w/7-way ATA plug, or equal
 - f. Hitch: One piece solid cast steel (adjustable) lunette eye and flange mount
 - g. Safety Chains: Two (2) ½" Blue-Krome plated high test, safety hook with latch
 - h. Parking Jack: 70,000 lbs. static / 40,000 lbs. lift (heavy duty 2-speed screw type)
 - i. Tie Down: Six per side
 - j. Color: Black

_____ _____ Heavy Duty 2 Speed Jack

_____ _____ Drawbar Storage Area

_____ _____ 8 degree Extension Ramp

_____ _____ Running Gear

- a. Tires: Twelve (12) 215/75R 17.5 (H) steel belted radial tires
- b. Hubs: Six (6) hub-piloted disc type hubs with outboard brake drums
- c. Wheels: Twelve (12) 6.75 x 17.5, 8-bolt, hub-piloted disc wheels
- d. Suspension: One (1) Hutch H-9700, Three leaf, capacity 50,000 lbs. tandem or equal, and One (1) Cush CLC-25-005 air ride with lift, capacity 25,000 lbs.
- e. Axels: Three (3) 5" diameter 22,500 lbs. ea., H.M. series bearings (maximum axle track width)
- f. All Wheels ABS: Anti-lock brake system, 4S2M sensor, all wheels, two (2) modular valves
- g. Parking brake: Spring brake on all axels

Equipment shall be priced and delivered with the following factory and dealer options installed.

_____ _____ Additional Deck Length:

_____ _____ Tool Box Lid (Lockable)

_____ _____ Ramps (Ladder type)

LOWBOY TRAILER

ITEM NO.	QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED AMOUNT
7.	2	EA	NEW, CURRENT YEAR MODEL – 50- TON SELF-LIFTING, DETACHABLE LOWBOY TRAILER, EAGER BEAVER 50GSL-3, OR EQUAL	\$	\$

MANUFACTURER IDENTIFICATION OF COMMODITY: All bidders are to indicate in the spaces below the manufacturer's name, model, and brand or style number for product bid. Failure to comply with this stipulation may result in the bidder being deemed not responsive.

Manufacturer / Model of the trailer: _____

Days to Deliver After Receipt of Order: _____

All equipment and/or materials shall be new and unused.

DATA SHEET: Shown below is the specification requirements for equipment that the State desires to purchase. These specifications are only considered as necessary to establish functional requirements. Proprietary design, exact dimensions, capacities, or restrictive features will not preclude acceptance of other recognized alternates meeting comparable performance requirements as determined by the State. Bidder signifies compliance or non-compliance with specifications by listing and outlining all deviations from specifications on company letterhead and returning it with the bid. Failure to comply may deem the bid not responsive.

SPECIFICATIONS AND PRICE SCHEDULE (Cont'd)

LOWBOY TRAILER

<u>YES</u>	<u>NO</u>	<u>MINIMUM REQUIREMENTS</u>
_____	_____	Capacity – 100,000 lbs.
_____	_____	Weight – Approx. 20,500 lbs.
_____	_____	Frame: Mainrails – 4 fabricated 16” (min.) Deep Cambered I beam, min. 80.00 PSI Steel
_____	_____	Cross-members: Min. 10” x 9 lbs. per ft., I-Beam, pierced through mainbeam (min. 24” spacing STD)
_____	_____	Gooseneck: Min. 82”
_____	_____	Decking: Nominal 2” (min.) hardwood, Width: (min.) 8’, 6”, Length: (min.) 24’
_____	_____	Lighting & Wiring: Sealed lights and modular harness with 7-way ATA plug, wiring 14 gauge lights/10 gauge brakes
_____	_____	Front Ramps: Front flip steel with grousers
_____	_____	Hydraulics: Self-contained Power Pack
_____	_____	Hydraulic Cylinders: Two main 7”. One 3” locking, one 4’ gooseneck support
_____	_____	Controls: Control valve eye level
_____	_____	Lift Axle: Air lift third axle
_____	_____	Tie Down: Eight (8) min. per side
_____	_____	Outriggers: Cast steel (locks both in and out positions); Outrigger boards in center of deck
_____	_____	Color: Factory Standard – Specify Color: _____
_____	_____	Tires: Min. Twelve (12) 255/70R22.5 (H) Steel Belted Radial
_____	_____	Hubs/Wheels: Six (6) disc-type hubs, twelve (12) 8.25 x 22.5 disk-type wheels, stemco oil seals, hub piloted.
_____	_____	Suspension: Air-ride (combined capacity min. 75,000 lbs.) dump valve
_____	_____	Axles: Three (3), min. 5” diameter, H.M. series bearings, capacity 25,000 lbs. each
_____	_____	Brakes: Min. 16W’ x 7” air, “S” Cam, auto slack adjusters with dust shields
_____	_____	ABS: All-wheel anti-lock brake system 4S3M, sensors on two (2) axles, three (3) modulator valves
_____	_____	Parking Brake: Spring brakes on all axles
_____	_____	Powered hydraulics wired directly to the truck (direct connect)
_____	_____	Storage: Lockable tool and chain storage – forward center deck area (1 compartment)