

Solicitation Information
4/24/13

RFP#7463374

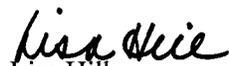
TITLE: DRAINAGE CLEANING VACUUM TRUCKS

Submission Deadline: 5/16/13 – 11:00 A.M.

Questions concerning this solicitation must be received by the Division of Purchases at questions@purchasing.ri.gov no later than **May 8, 2013 at 4:00 p.m.**. Questions should be submitted in a *Microsoft Word attachment*. Please reference the RFP# on all correspondence. Questions received, if any, will be posted on the Internet as an addendum to this solicitation. It is the responsibility of all interested parties to download this information.

SURETY REQUIRED: No

BOND REQUIRED: No


Lisa Hill
Chief Buyer

Applicants must register on-line at the State Purchasing Website at www.purchasing.ri.gov

Note to Applicants:

Offers received without the entire completed four-page RIVP Generated Offerer Certification Form attached may result in disqualification.

THIS PAGE IS NOT A OFFERER CERTIFICATION FORM

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SECTION 1: INTRODUCTION

The Rhode Island Department of Administration/Division of Purchases, on behalf of the Rhode Island Department of Transportation (TRANSPORTATION), is soliciting proposals from qualified firms for the purchase of **Two (2) Heavy Duty Single Rear Axle (6-Wheel) Chassis with Mounted Drainage Cleaning Vacuum** as described elsewhere herein, in accordance with the terms of this Request for Proposals and the State's General Conditions of Purchase, which may be obtained at the Rhode Island Division of Purchases Home Page by Internet at www.purchasing.ri.gov. The successful offerer must be an Authorized Manufacturer or Authorized Manufacturer Representative located within a one hundred (100) mile radius of the Department of Transportation "DOT" Highway & Bridge Maintenance Facility, 360 Lincoln Avenue, Warwick, RI 02888.

The Authorized Manufacturer or Authorized Manufacturer Representative will be responsible for the maintenance of the entire vehicle and all optional equipment.

No alternatives to the specifications will be accepted. All proposals must meet or exceed specifications. Only one (1) set of specifications will be accepted per offerer. Specifications must be submitted in triplicate (3 complete sets).

Delivery must be completed within one hundred eighty (180) days of the successful proposal.

This is a Request for Proposals, not an Invitation for Proposal. Responses will be evaluated on the basis of the relative merits of the proposal, in addition to price; there will be no public opening and reading of responses received by the Division of Purchases pursuant to this Request, other than to name those offerors who have submitted proposals.

INSTRUCTIONS AND NOTIFICATIONS TO OFFERORS:

1. Potential vendors are advised to review all sections of this RFP carefully and to follow instructions completely, as failure to make a complete submission as described elsewhere herein may result in rejection of the proposal.
2. Alternative approaches and/or methodologies to accomplish the desired or intended results of this procurement are solicited. However, proposals which depart from or materially alter the terms, requirements, or scope of work defined by this RFP will be rejected as being non-responsive.
3. All costs associated with developing or submitting a proposal in response to this RFP, or to provide oral or written clarification of its content shall be borne by the vendor. The State assumes no responsibility for these costs.
4. Proposals are considered to be irrevocable for a period of not less than **60 days** following the opening date, and may not be withdrawn, except with the express written permission of the State Purchasing Agent.
5. All pricing submitted will be considered to be firm and fixed unless otherwise indicated herein.

6. Proposals misdirected to other state locations, or which are otherwise not present in the Division at the time of opening for any cause will be determined to be late and will not be considered. For the purposes of this requirement, the official time and date shall be that of the time clock in the reception area of the Division.
7. It is intended that an award pursuant to this RFP will be made to a prime vendor, who will assume responsibility for all aspects of the work. Joint venture and cooperative proposals will not be considered. Subcontracts are permitted, provided that their use is clearly indicated in the vendor's proposal and the subcontractor(s) to be used is identified in the proposal.
8. All proposals should include the vendor's FEIN or Social Security number as evidenced by a W9, downloadable from the Division's website at www.purchasing.ri.gov.
9. The purchase of goods/services under an award made pursuant to this RFP will be contingent on the availability of funds.
10. Vendors are advised that all materials submitted to the State for consideration in response to this RFP will be considered to be Public Records as defined in Title 38, Chapter 2 of the General Laws of Rhode Island, without exception, and will be released for inspection immediately upon request once an award has been made.
11. Interested parties are instructed to peruse the Division of Purchases website on a regular basis, as additional information relating to this solicitation may be released in the form of an addendum to this RFP.
12. Equal Employment Opportunity (G.L. 1956 § 28-5.1-1, et seq.) – § 28-5.1-1
Declaration of policy – (a) Equal opportunity and affirmative action toward its achievement is the policy of all units of Rhode Island state government, including all public and quasi-public agencies, commissions, boards and authorities, and in the classified, unclassified, and non-classified services of state employment. This policy applies to all areas where State dollars are spent, in employment, public services, grants and financial assistance, and in state licensing and regulation. For further information, contact the Rhode Island Equal Opportunity Office at (401) 222-3090.
13. In accordance with Title 7, Chapter 1.2 of the General Laws of Rhode Island, no foreign corporation, a corporation without a Rhode Island business address, shall have the right to transact business in the State until it shall have procured a Certificate of Authority to do so from the Rhode Island Secretary of State (401-222-3040). This is a requirement only of the successful vendor(s).

SECTION 2: BACKGROUND

The Rhode Island Department of Transportation is seeking to contract with a vendor with demonstrated proficiency in Heavy Duty Single Rear Axle (6-Wheel) Chassis with Mounted Drainage Cleaning Vacuum Trucks.

The Department expects to contract for a minimum of two (2) units. The vendor cost proposal will represent one total cost, not itemized.

Although cost is a significant consideration, warranty/warranty resolution; availability of parts; delivery schedule/significant milestones and overall quality of the work plan; and experience, capability, capacity, and qualifications of the offeror are also critical to the procurement of the Heavy Duty Single Rear Axle (6-Wheel) Chassis with Mounted Drainage Cleaning Vacuum Trucks.

SECTION 3: SCOPE OF WORK (SPECIFICATIONS)

General Scope of Work

The following specifications and dimensions shall apply to purchases of HEAVY DUTY SINGLE REAR AXLE (6-WHEEL) CHASSIS WITH MOUNTED DRAINAGE CLEANING VACUUM for the Rhode Island Department of Transportation. The State reserves the right to waive minor technicalities under this specification. Federal and State laws supersede any conflicting part of this specification.

The unit shall be a current model, new and unused, under standard production by the manufacturer, and of which parts are stocked at one or more locations in Rhode Island and/or Southern New England region. All parts utilized on the unit shall be new and unused.

The offerer agrees, if his proposal is accepted, to guarantee the design, material and workmanship of the unit bid according to the standard factory warranty, or detailed in the following specification, whichever is greater. A copy of the warranty shall accompany the bid. Warranty coverage shall include costs of transporting the unit to and from servicing shop, when outside a 50 mile radius of the delivery point. The offerer shall be responsible for pickup and delivery (including fuel) of any units that are found to have defects within the first three (3) weeks of delivery to RIDOT and have to return to dealer for repairs.

Complete specifications and literature on the unit bid shall accompany the bid. Any exceptions to these specifications shall be indicated on the bid or on a separate attachment to the bid, labeled as such.

Any "or equal" or "equivalent" items for brand specified components shall be listed with the bid package. Complete description and literature on the "or equal" components shall be supplied for consideration by the RIDOT. The burden of proof regarding "or equal" items will be upon the vendor.

GENERAL: This specification is intended to allow competitive bids on the following trucks or approved equal: International TerraStar, Freightliner 108SD, and Mack Granite.

PRE-DELIVERY SERVICE: The unit shall be delivered complete and fully operational. It shall be properly serviced, free of leaks, with all mechanical adjustments made prior to delivery. A copy of the line set ticket shall accompany the vehicles. A minimum of three days notice prior to delivery shall be given to the person to whom the unit is to be shipped. Upon award of the bid the successful offerer shall supply a completed RIDOT "Equipment Information" sheet listing all the pertinent details that are specific to the units being purchased. Failure to do so will result in 2% retention of the total order.

All units must be inspected prior to delivery with a focus on functionality, consistency, and quality assurance. The body installation company must develop an inspection check sheet that is detailed and includes all major components of each dump truck. Each inspection item must be initialed and a copy of the inspection sheet shall be placed in the document holder of the truck prior to delivery. The inspection check sheet shall be developed and presented at the body company prototype meeting for review and input from RIDOT. The inspection check sheet shall be developed and presented at the final prototype meeting for review and input from RIDOT.

All units must be inspected prior to delivery with a focus on functionality, consistency, and quality assurance just before final delivery. The offerer must develop an inspection check sheet that is detailed and includes all required pre delivery inspection and service items required by the chassis supplier. This inspection check list should also include checking items that may have loosened or have been missed by the body company such as hydraulic leaks and body components shaking loose. Each inspection item must be initialed and a copy of the inspection sheet shall be placed in the document holder of the truck prior to delivery.

TRUCK DELIVERY SCHEDULE

All offerers shall provide as part of their bid a schedule for the delivery of all trucks to RIDOT. This date shall be listed as the number of days following issuance of a Notice to Proceed, that the offerer shall successfully deliver all units to the Rhode Island Department of Transportation. Failure to submit a schedule will result in the bid being considered non-responsive. Failure to meet the schedule will result in 3% retention on the total order.

2014 MODEL YEAR CAB & CHASSIS 6-WHEEL TRUCK

A. Dimensions/G.V.W

GVW rating – 41,000 pounds

GCW rating – 46,000 pounds

Wheelbase – 238”

CA – 170.90”, must be verified with the body installer

Platform - 37”AF, verify with bodybuilder

B. Frames

Double rail, full inside channel, RBM- 3,580,000 inch-pounds per rail

Frame rails treated w/ Tectyl 185GW Pigmented 2.8 VOC for rust resistance

20” ft frame extension, continuation of parent rail (not bolted)

Special frame piercing additional holes for vacuum and/or sewer jet attachments

I-beam crossmembers

Swept back steel bumper

Front tow hooks

Two rear tow hooks

All fuel tanks, air tanks, air drier, etc. shall be located either under the cab or on the inside of the frame rails. It is the responsibility of the vendor to coordinate with the body company to ensure that all equipment mounted on the frame rails (battery box, air tanks, hydraulic tank, tool box, shovel box, etc.) will fit in such a manner as to be functional, serviceable, and give adequate clearance for body/chassis movement and wheel travel in all normal conditions.

C. Engine Diesel/Engine Equipment

Minimum 11 Liter 365 HP at 1500-1900 RPM , 1340 lb ft torque

Engine to utilize current SCR emission technology

Inside/outside air intake w/in-cab controls

Alternator – Delco 12V 160 amp

Batteries – (3) 12V 1000/3000 CCA

Engine block heater 120 volt/1500 watt includes block heater socket receptacle

Air compressor, 18.7 cfm

Bug screen, radiator mounted

Engine hoses and tubing, silicone

DPF and SCR mounted RH side under cab

Exhaust after-treatment system, diesel particulate filter ceramic passive regulator

Fuel-Water Separator – Davco 382 with fluid heat and 120 volt heater wired with engine block heater

Oil pan – corrosion resistant

Engine compression brake with selector switch

Exhaust, clear BOC, single RH vertical stack, cab mounted, turned end

D. Transmission and Equipment/Drivelines

Allison 4500RDS 6 six-speed automatic with PTO gear, oil level sensor

Transynd synthetic lube

Driveline – Main, Meritor 18 MXL “XTENDED LUBE”

Driveline – Interaxle, Meritor 17 MXL “XTENDED LUBE”

E. Axles

Front axle – I-Beam type 20,000 pound capacity

Steering – Sheppard SD110 + HD94

Rear axle- 26,000 pound capacity, cast ductile iron housing, dual reduction with ratio capable of 70 mph

Automatic power divider

F. Suspension

Front, multi-leaf, shackle type, 20,000 pound capacity

Rear, 31,000 pound multi-leaf, to articulate w/bronze center bushing

G. Brakes

Front-S-cam 16.5" x 6" Q+

Rear-S-cam 18"x 7"

Brake system shall include:

- Air dryer
- Brake chambers, type 30/30 rear
- Dust shields front and rear
- Brake lines color-coded nylon
- Slack adjusters automatic front and rear
- Anti-lock brake system w/traction control, includes dash mounted mud/snow switch
- Full trailer connections including air lines and seven wire cable and plug routed to rear of chassis
- Hand control valve for trailer brakes
- All rear brake chamber clevis pins shall be lubricated with an anti-seize lubricant
- All rear brake shoe anchor pins shall be grease-able with grease fittings

H. Tires

Front (2) 315/80R22.5 20L Bridgestone M860

Rear (8) 12R24.5 16H Bridgestone M843

One front and two rear spare tires and rims matching above

I. Wheels

The unit shall be equipped with 10 bolt disc-type wheels and 315/80R22.5 tubeless type low profile steel belted radial truck tires front and 275/80R22.5 or 295/75R22.5 tandem dual rear.

Front tires shall be load range L and rear shall be load range G, minimum and be rated for 65 mph.

Front tires shall be mounted on 9.0" drop center rims and rear mounted on 8.25" drop center rims. All wheels must be equipped with the same type rim. Rims shall be hub-piloted, 5 hand hole design.

Rear tires shall have a square block tread.

J. Electrical System

Twelve-volt negative ground electrical system consisting of the following components:

- Wiring schematic shall be supplied illustrating the wiring system
- Battery box mounting – LH rail back of fuel tank

- "Bodylink" III w/cab pass-thru

All lights and reflectors shall conform to the motor vehicle laws of the State of Rhode Island.

K. Fuel System

Fuel tank - LH, 70 gallon aluminum

Aluminum fuel tank steps/straps

8.7 gallon DEF tank

L. Cab

Conventional Cab, air suspended (welded steel galvanized shell) to include rust preventative procedures.

Approximately 116" BBC (front of flush bumper to back of cab), engine to sit front of firewall Hood and fenders, fiberglass – tiltable with frame mounted fender splash shield section and engine inspection hatches

Identification/clearance lights (5)

Mirrors, stainless exterior west coast RH and LH

Convex spot mirrors

Single air horn

Radio – AM/FM w/weatherband

M. Cab Interior

Seat belts with shoulder strap shall be installed for driver and passenger positions which meet latest SAE Specifications and Federal Highway Safety Standards.

Unit must comply with Federal Motor Carrier Safety Regulations.

Steering wheel, tilt/telescopic

Floor covering rubber, black

Gauge package to include exhaust pyrometer, air restriction monitor, hour meter, engine oil temperature, and transmission oil temperature.

(6) Dash mounted miscellaneous switches - (2) 15A ign, (1) 20A ign, (1) 10A ign, (1) 15A bat, and (1) 20A bat

Dash control/power supply for local install of plow lamps w/lead at grill

PTO – control, switch and light w/wiring and piping factory installed

Keyed alike chassis

Seat driver, Bostrom Talledaga 915 air suspension

Air conditioning with integral heater/defroster

N. Paint

Cab shall be White over proper primer for cab and sheet metal. No other color will be accepted by RIDOT, chassis and running gear shall be black. Wheels shall be powder coated white.

2" Diamond Grade 3-M conspicuity tape with 6" alternating red and white blocks shall be used to outline the perimeter of the tailgates.

A minimum of 68 feet of tape shall be used on each body. Exact mounting pattern shall be coordinated through the RIDOT Maintenance Administrator.

O. Accessories

Two wheel chocks

Fire extinguisher - #5 ABC

Three safety triangles

Three sets keys

One First-Aid Kit

One Spill Response Kit

800 MHz digital radio (See attached specifications for ONLY ACCEPTABLE Motorola Astro XTL 1500)

Vendor shall provide a comprehensive list of all relevant cab and chassis manuals along with price, media (electronic or paper), and a description. Price shall be firm for 12 months from the closing of the bid. This must include but not be limited to overhaul and tune-up manuals, diagnostic, wiring, troubleshooting, and parts manuals for engine, transmission, differential and all components. The manual list must also include but not be limited to pricing for printed wiring diagrams and diagnostic manuals.

Panasonic "Toughbook" lap-top/tablet computer, Windows 7 compatible

Chassis manufacturer's diagnostic software shall be loaded in computer and licensed to the Rhode Island Department of Transportation. Bids for all electronic media shall include pricing for annual subscription renewal. Electronic media shall be capable of being moved to new computer or reloaded in the event of hard drive crash without additional charges. An example of engine software required would be Cummins Insite Lite, Navistar Service Maxx Fleet Pro, or approved equal.

RIDOT will place the order for manuals and software separately from the dump truck order. RIDOT will identify which manuals should be presented at the final prototype meeting for review. Based on this review, districts will determine which manuals to order and in what quantities.

A lockable weatherproof toolbox with T-handle latches shall be mounted to the frame on the curb side, under the body. The toolbox shall be approximately 36 inches long by 18 inches high by 18 inches wide. To be constructed of 12 gauge 201 Stainless Steel minimum, with curbside opening steel door with stainless steel piano hinge. Front panel shall have exterior jam lip designed to deflect water away from the door opening. Edges of door shall seal tightly against weather stripping and chain door retainer. Two keys shall be provided with each unit. The unit shall be bolted to the frame using cradle type mounting brackets.

A shovel box with 3-point T-handle latches shall be provided. The box shall be 64 inches long, approximately. Approximate width and height shall be 24 inches and 8 inches respectively. One end of the box shall be tapered to a height of approximately 5 inches to allow space over front tandem. The box shall have a fully opening door and be weatherproof with a polished stainless steel locking paddle handle and stainless steel hinges. Door is to be double panel with exterior jam design and have rubber stops to protect finish when opened.

The shovel box shall be constructed of 12 gauge 201 Stainless Steel. All seams shall be 100% welded.

The shovel box shall be located on the curb side ahead of the tandems as far forward as practical. The box shall be attached to the chassis. Trucks equipped with wing plows shall have shovel box mounted to the underside of the dump body. The box shall allow appropriate clearances for bed and for the wheels. Final mounting location must be approved by the KDOT Equipment Engineer.

P. Warranties

Engine – 84 months/200,000 miles (complete engine including injectors, turbocharger, electrical harnesses, lines and tubes – 100% parts and labor). Exceptions are: after treatment system components and related sensors and EA harnesses which shall be covered under separate warranties.

Engine After treatment system and EA Harness and sensors – 60 months/100,000 miles – 100% parts and labor

Chassis - "Bumper to bumper" - 60 months/100,000 miles – 100% parts and labor - including components (but not limited to) such as radiators, cab, suspension, and electrical.

Allison Transmission – 60 months/no mileage limits – 100% parts and labor

No engine hour limitation in above warranties

A breakdown of the standard manufacturer's warranty when it is in excess of the 2 years requested shall be listed for each component of the cab and chassis and included in the manual set.

Q. Training

A 3 day, "hands on" technician training session shall be provided at RIDOT Division of Highway & Bridge Maintenance Headquarters. The training session topics will be coordinated through RIDOT Motor Pool section and may include but are not limited to diesel engine tune-up and maintenance, multiplex systems, and use of purchased software. The training session shall accommodate at least 12 RIDOT employees at each session. Training shall be provided approximately 3 months after delivery of the final units.

There shall be a one day (1) seminar, to instruct RIDOT personnel on the operation, servicing and repair of the hydraulic system, at each delivery location. 1/2 of the day shall be for operator training and the other 1/2 for mechanics. This seminar is separate from the training required on above covering the truck package excluding the hydraulics. A web broadcast shall be an allowed method of conducting this seminar.

A follow up session is required for operators after the trucks have been used one winter season. These sessions are to be held Division of Highway & Bridge Maintenance Headquarters. The operator's session is to be approximately 4 to 6 hours.

All training sessions shall be scheduled on a date mutually agreed upon by RIDOT and the hydraulics supplier. All training sessions shall be performed by competent technician thoroughly trained in the use, service, and operation of the unit.

R. Hydraulics

If the hydraulic component supplier is different than the supplier of the spreader controller, the truck equipment company (body installer) shall take responsibility for coordinating efforts of the two suppliers. It will be the responsibility of the truck equipment company to ensure that the total hydraulic package functions as intended.

The control valve system shall be enclosed in a metal box with side opening weather resistant lid, mounted behind the cab on the left side frame rail in a location where the manual overrides can be accessed. The lid shall be removable without the use of tools and shall provide for maximum access to the valve. A legend describing each valves operation shall be stuck on the inside of the lid. Enclosure shall be integrated with the hydraulic reservoir.

S. Manuals

One operator's manual detailing the recommended operating procedure shall be delivered with each unit.

Sets shall consist of the following: shop manual, parts manual including exploded views of major components with their part numbers, wiring diagram, operator's manual, and a summary of warranties offered in excess of the standard one year.

The manuals shall fully and clearly cover all components of the unit, including the pump, valves, controls, tanks, etc. Manuals shall also include comprehensive trouble shooting and diagnosis information for all functions.

Shop manual shall explain, in detail, procedures for overhauling all major components. Failure to provide manuals may result in 5 percent of total bid.

The content of the set will be evaluated for approval at the prototype approval meeting.

Complete shop drawings for the hydraulic oil supply, control valve box, and control box in the cab, and a complete system schematic shall be submitted to the RIDOT Division of Highway & Bridge Maintenance Administrator for review and approval prior to construction of any of the units.

Manuals shall also cover all allied equipment and components installed on chassis provided by body installer.

Any deviations from this system must be noted on the bid and approved by the RIDOT Division of Highway & Bridge Maintenance Administration. A complete system description and product literature for major components shall accompany the bid.

Drainage Vacuum Attachment

The offerer shall provide a detailed description of the proposed drainage (sewer) vacuum attachment. The unit shall be a new model Vactor 2110-J6 Sewer & Drain Cleaner, or equal. The offerer shall be responsible for submitting shop drawings detailing the connections to the frame as well as the unit to be supplied.

At a minimum the attachment shall provide:

- a 10 Cubic Yard Debris Body;
- 1000 Gallons of Fresh Water;
- Electric/Hydraulic Four Way Boom with telescoping;
- Handgun Assembly with ½" x 50' Hose with Quick Disconnects;
- 3" Y-Strainer at Water Pump Inlet
- Remote Pendant Control with 35' Cord
- Steel Cylindrical Debris Tank
- Flexible Hose Guide
- 30 Deg. Sand Nozzle with Carbide Inserts
- 30 Deg. Sanitary Nozzle with Carbide Inserts
- 15 Deg. Penetrator Nozzle with Carbide Inserts
- Nozzle Storage Rack
- Vacuum Tube Storage: Curbside (2) Pipe, Rear Door (2) Pipe
- 1" Nozzle
- Flat Rear Door with Hydraulic Locks and Door Power-Up/Down, Open/Close Feature
- Dual 10" Stainless Steel Float Shut Off System/Rear Mounted
- Debris Body Vacuum Relief System
- Debris Deflector Plate
- 48" Dump Height
- Water Sight Gauge
- Liquid Float Level Indicator
- Boom Transport Post Storage
- 3" Y-Strainer at Water Pump with 3" Drain Valve
- Hydraulic Variable Flow, Dual PTO's and Dual Hydraulic Pumps
- 1" Water Relief Valve for Vacuum Water Pump
- Midship Handgun Coupling
- Side Mounted Water Pump
- Hose Wind Guide (Dual Roller)
- Hose Footage Counter – Mechanical (Feet)
- Hose Reel Manual Hydraulic Extend/Retract
- Hose Chain Reel Cover (Full)
- Tachometer/Chassis Engine with Hour Meter
- All necessary vacuum pipes and hoses for highway operations
- All manuals and guides
- Mounted work lights and hand lights for highway applications

SECTION 4: TECHNICAL PROPOSAL

Each offerer must include a separately sealed Technical Proposal, so marked, appropriate labeled with the RFP # and vendor name and must address the following which will be the basis for the technical evaluation:

Warranty/Warranty Resolution – Specify the period of time that the manufacturer will make any repairs or replace defective parts free of charge. Please provide a detailed description regarding the process for resolution of product issues.

Availability of Parts – Please describe the logistics regarding the availability of parts and the time frame for delivery.

Quality of Work Plan/Delivery Schedule/Significant Milestones - Please describe in detail, the framework within which the requested trucks will be produced. The following elements must be included: 1) Date when significant milestones are achieved 2) Specifically, the date when delivery can be expected. Anticipated delivery of trucks must be included (see Truck Delivery schedule on Page 6).

Experience, Capability, Capacity, and Qualifications – Please provide a detailed description of the Vendor's experience as a heavy equipment provider. A list of relevant client references must be provided, to include client names, addresses, phone numbers, dates of service and type(s) of service(s) provided.

SECTION 5: COST PROPOSAL

Each proposal must include a separately sealed cost proposal, so marked, appropriately labeled with RFP # and vendor name and must include both a per unit cost and a total cost for the required Heavy Duty Single Rear Axle (6-Wheel) Chassis with Mounted Drainage Cleaning Vacuum Trucks.

SECTION 6: EVALUATION AND SELECTION

Proposals will be reviewed by a Technical Review Committee comprised of staff from The Department of Transportation. To advance to the Cost Evaluation phase, the Technical Proposal must receive a minimum of 60 (85.7%) out of a maximum of 70 technical points. Any technical proposals scoring less than 60 points will not have the cost component opened and evaluated. The proposal will be dropped from further consideration.

Proposals scoring 60 technical points or higher will be evaluated for cost and assigned up to a maximum of 30 points in cost category, bringing the potential maximum score to 100 points.

The Department of Transportation reserves the exclusive right to select the vendor that it deems to be in its best interest to accomplish the project as specified herein; and conversely, reserves the right not to fund any proposal(s).

Proposals will be reviewed and scored based upon the following criteria:

Criteria	Possible Points
Warranty/Warranty Resolution	5 Points
Availability of Parts	10 Points
Quality of the Work plan/Schedule/Milestones	25 Points
Experience, Capability, Capacity, and Qualifications of the Offeror	30 Points
Total Possible Technical Points	70 Points
Cost calculated as lowest responsive cost proposal divided by (this cost proposal) times 30 points *	30 Points
Total Possible Points	100 Points

*The respondent offering the lowest cost proposal will receive one hundred percent (100%) of the available points for cost. All other offerers will be awarded cost points based upon the following formula:

$(\text{low proposal} / \text{vendors proposal}) * \text{available points}$

For example: If the low offerer (Vendor A) proposals \$65,000 and Vendor B proposals \$100,000 for monthly cost and service fee and the total points available are Thirty (30), vendor B's cost points are calculated as follows:

$$\$65,000 / \$100,000 * 30 = 19.5$$

Points will be assigned based on the offeror's clear demonstration of his/her abilities to complete the work, apply appropriate methods to complete the work, create innovative solutions and quality of past performance in similar projects.

Applicants may be required to submit additional written information or be asked to make an oral presentation before the technical review committee to clarify statements made in their

proposal. Applicants may be required to submit additional written information or be asked to make an oral presentation before the Technical Review Committee to clarify statements made in their proposal.

SECTION 7: PROPOSAL SUBMISSION

Questions concerning this solicitation may be e-mailed to the Division of Purchases to Lisa Hill [lisa.hill@purchasing.ri.gov] no later than the date and time indicated on page one of this solicitation. Please reference RFP # on all correspondence. Questions should be submitted in a Microsoft Word attachment. Answers to questions received, if any, will be posted on the Internet as an addendum to this solicitation. It is the responsibility of all interested parties to download this information. If technical assistance is required to download, call the Help Desk at (401) 574-9709.

Offerors are encouraged to submit written questions to the Division of Purchases. No other contact with State parties will be permitted. Interested offerors may submit proposals to provide the services covered by this Request on or before the date and time listed on the cover page of this solicitation. Responses received after this date and time, as registered by the official time clock in the reception area of the Division of Purchases will not be considered.

Responses (an original plus three (3) copies) should be mailed or hand-delivered in a sealed envelope marked "RFP# 7463374" to:

RI Dept. of Administration
Division of Purchases, 2nd floor
One Capitol Hill
Providence, RI 02908-5855

NOTE: Proposals received after the above-referenced due date and time will not be considered. Proposals misdirected to other State locations or those not presented to the Division of Purchases by the scheduled due date and time will be determined to be late and will not be considered. Proposals faxed, or emailed, to the Division of Purchases will not be considered. The official time clock is in the reception area of the Division of Purchases.

RESPONSE CONTENTS

Responses shall include the following:

1. A completed and signed four-page R.I.V.I.P generated offerer certification cover sheet downloaded from the RI Division of Purchases Internet home page at www.purchasing.ri.gov.
2. A completed and signed W-9 downloaded from the RI Division of Purchases Internet home page

at www.purchasing.ri.gov.

3. **A separate sealed Technical Proposal** describing the warranty/warranty resolution; availability of parts; delivery schedule/significant milestones and overall quality of the work plan; and experience, capability, capacity, and qualifications of the offeror and background of the applicant and experience with similar projects, and all information described earlier in this solicitation. The Technical Proposal is limited to six (6) pages (this excludes any appendices) .
4. **A separate, signed and sealed Cost Proposal** reflecting the total cost of this procurement.
5. In addition to the multiple hard copies of proposals required, Respondents are requested to provide their proposal in **electronic format (CD-Rom, disc, or flash drive)**. Microsoft Word / Excel OR PDF format is preferable. Only 1 electronic copy is requested and it should be placed in the proposal marked "original".

CONCLUDING STATEMENTS

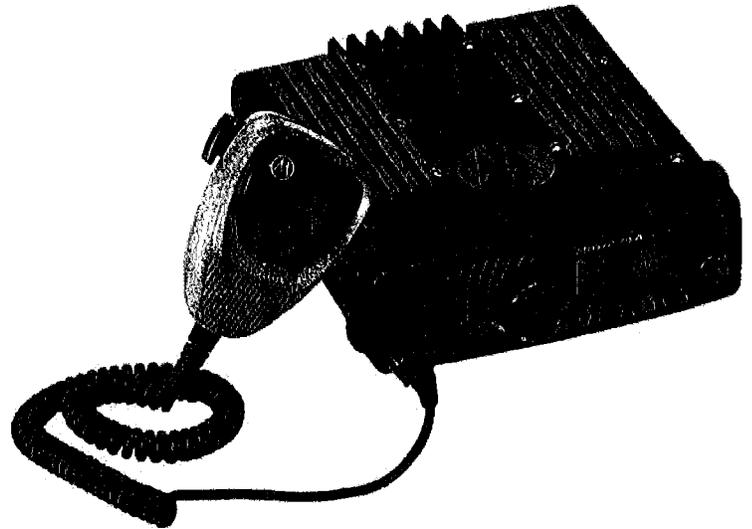
Notwithstanding the above, the State reserves the right not to award this contract or to award on the basis of cost alone, to accept or reject any or all proposals, and to award in its best interest.

Proposals found to be technically or substantially non-responsive at any point in the evaluation process will be rejected and not considered further.

The State may, at its sole option, elect to require presentation(s) by offerors clearly in consideration for award.

ASTRO® XTL™ 1500

Digital Mobile Radio



MODEL FEATURES

Frequency Bands

- 136-174 MHz
- 380-470 MHz
- 450-520 MHz
- 764-870 MHz

Power Levels

- 10-50 Watt (136-174 MHz)
- 10-40 Watt (380-470 MHz)
- 10-45 Watt (450-520 MHz)
- 10-35 Watt (764-870 MHz)

48 Channels (Standard)

Dual mode operation (ASTRO Digital and Analog)

9600 or 3600 Baud features

Project 25 capability on Conventional and Trunking systems

Project 25 compliance interoperable voice signaling features

Bandwidth Receiver

- 12.5/25/30 kHz (analog) – 136-174 MHz
- 12.5/25 kHz (analog) – 380-470 MHz and 450-520 MHz
- 12.5/20/25 kHz (analog) – 764-870 MHz

12.5 kHz bandwidth receiver (digital)

4 Programmable buttons

Emergency button

Dash mount

Meets Military Specs 810 (C,D, E and F)

Utilizes Windows®-based customer programming software

Built in FLASHport™ support

Optional Keypad microphone

Internal Speaker

Text Messaging

OTAP (Over the air programming)

AVAILABLE WITH SOFTWARE ENHANCEMENT PACKAGE

512 Channels

Encryption capability (ADP)

Integrated voice and data capable

Motorola's XTL 1500 Project 25 compliant mobile radio is tough and well suited for users in a construction, utility, fire/police, and local law enforcement environment. Taking into consideration your work environment and various job responsibilities, this robust mobile radio will support the type of consistent, high quality communication you need.

The XTL 1500 digital mobile radio supports ANPCTO Project 25 capabilities available in 136-174 MHz,

380-470 MHz, 450-520 MHz, 764-870 MHz frequency bands and supports a subset of the accessories common to the XTL 2500 mobile radio.

The XTL 1500 digital mobile radio is specifically designed to meet the needs of your organization. When you want high performance, quality, and reliability in your daily communications, the XTL 1500 digital mobile radio is the radio of choice.

SPECIFICATION SHEET

ASTRO® XTL™ 1500
Digital Mobile Radio

GENERAL PERFORMANCE SPECIFICATIONS

Frequency range	136-174 MHz 380-470 MHz 450-520 MHz 764-870 MHz
Modulation	C4FM of QPSK-C family (Compatible 4-Level Frequency Modulation and Compatible Quadrature Phase Shift Keying)
Protocol	Project 25-CAI 4.4 kbps IMBE, 2.8 kbs Error Correction Coding, 2.4 kbps Embedded Signaling
Channel Bandwidth	
Analog	12.5/25/30 kHz (136-174 MHz) 12.5/25 kHz (380-470 MHz and 450-520 MHz); 12.5/20/25 kHz (764-870 MHz)
Digital	12.5 kHz

VOICE CODER

Voice Coding Method IMBE (CAI)	Improved Multi Band Excitation (IMBE)
Voice Truncation	None
Frame Re-sync Interval	180 mSec (Clear Digital Mode)
Forward Error Correction	Golay code
Error Mitigation Project 25-CAI (IMBE) Dual Level	Level 1: Extrapolates and replaces 20 mSec voice frames that exceed the error correction algorithm tolerance. Level 2: Progressive muting of 20 mSec voice frames that are too severely damaged for Level 1 replacement.
Code Book Structure	APCO Project 25 (IMBE): No code book

SIGNALLING (ASTRO MODE)

Signalling Rate	9.6 kbps
Digital ID Capacity	10,000,000 Conventional / 48,000 Trunking
Digital Network Access Codes	4,096 network site addresses
ASTRO Digital User Group Addresses	4,096 network site addresses
Project 25 – CAI Digital User Group Addresses	65,000 Conventional / 4,094 Trunking
Error Correction Techniques	Golay, BCH, Reed-Solomon codes
Data Access Control	Slotted CSMA: Utilizes infrastructure-sourced data status bits embedded in both voice and data transmissions.

SPEAKER

Dimensions	5.5" x 5.5" x 2.5" (139.7 x 139.7 x 63.5 mm) (Excluding mounting bracket)
Weight	1.5 lbs (0.7 kg)

MOBILE

Dimensions	Radio Transceiver 2" x 7" x 7.8" (51 x 179 x 197 mm) Control Head 2.6" x 7.3" x 2.7" (65 x 185 x 69 mm) Radio Transceiver and Control Head 2.6" x 7.3" x 9.8" (65 x 185 x 248 mm)
Weight	Radio Transceiver and Control Head 5.2 lbs (2.34 kg) (764-870 MHz and 136-174 MHz) 5.2 lbs (2.32 kg) (380-470 MHz and 450-520 MHz)

SPECIFICATION SHEET

ASTRO® XTL™ 1500
Digital Mobile Radio

TRANSMITTER

Frequency	764-776 MHz 794-806 MHz 806-825 MHz 851-870 MHz	380-470 MHz (Range 1) and 450-520 MHz (Range 2)	136-174 MHz
RF Power	10-30W (764-806 MHz) 10-35W (806-870 MHz)	10-45W (450-500 MHz) 10-40W (500-512 MHz) 10-25W (512-520 MHz)	10-50W
Max Freq Separation	Full Bandsplit	Ref Above Bandsplit	Full Bandsplit
Freq Stability Operating Freq Accuracy (-30°C to +60°C; +25°C Ref) - 700/800 & UHF (± 2 ppm (-30°C to +60°C) - VHF	1.5 ppm	2 ppm	2 ppm
Modulation Limiting 25/20 kHz, 25 kHz, 25/30 kHz channel 12.5 kHz channel	±5 kHz, +/-4 kHz (NPSPEC) ±2.5 kHz	±5 kHz ±2.5 kHz	±5 kHz ±2.5 kHz
Modulation Fidelity (C4FM) 12.5 kHz digital channel	±2.8 kHz	±2.8 kHz	±2.8 kHz
Channel Spacing Analog	12.5/20/25 kHz	12.5/25 kHz	12.5/25/30 kHz
FM Hum and Noise 20/25 kHz, 25 kHz, 20/25 kHz 12.5 kHz	40 dB 34 dB	45 dB 40 dB	45 dB 40 dB
Emissions (GNSS=Global Navigation Satellite System)	Conducted -70 dBc -85 dBc (GNSS)	Radiated -20 dBm -40 dBm (GNSS)	Conducted Radiated -85 dBc -20 dBm -85 dBc -20 dBm
Audio Response (6 dB/Octave Pre-emphasis from 300 to 3000 Hz)	+1, -3 dB (EIA)	+1, -3 dB (EIA)	+1, -3 dB (EIA)
Audio Distortion per EIA	3%	3%	3%

POWER AND BATTERY DRAIN

Model Type	136-174 MHz 380-470 MHz 450-520 MHz 764-870 MHz
Minimum RF Power Output	10-50 Watt (136-174 MHz) 10-40 Watt (380-470 MHz) 10-45 Watt (450-520 MHz) 10-35 Watt (764-870 MHz) 25-110 Watt (136-174 MHz) 25-110 Watt (380-470 MHz)
Operation	13.8V DC ±20% Negative Ground
Standby at 13.8V	136-174 MHz (10-50 Watt) 0.85A 380-470 MHz (10-40 Watt) 0.85A 450-520 MHz (10-45 Watt) 0.85A 764-870 MHz (10-35 Watt) 0.85A
Receive at Rate Audio at 13.8V	136-174 MHz (10-50 Watt) 3.2A 380-470 MHz (10-40 Watt) 3.2A 450-520 MHz (10-45 Watt) 3.2A 764-870 MHz (10-35 Watt) 3.2A
Transmit Current (A) at Rated Power (W)	136-174 MHz (10-50 Watt) 13A (50W) 380-470 MHz (10-40 Watt) 11A (40W) 450-520 MHz (10-45 Watt) 11A (45W) 764-870 MHz (10-35 Watt) 12A (35W)

FCCTYPE ACCEPTANCE ID

Band	Output Power	Transmitter Number
136-174 MHz	10-50 W	AZ492FT3806
380-470MHz	10-40 W	AZ492FT4862
450-520 MHz	10-45 W	AZ492FT4867
764-870 MHz	10-35 W	AZ492FT5823

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30°C / +60°C
Storage Temperature	-55°C / +85°C
Ingress Protection	IP54 certified

SPECIFICATION SHEET

ASTRO® XTL™ 1500
Digital Mobile Radio

RECEIVER

Frequency	764-776 MHz 794-806 MHz 806-825 MHz 851-870 MHz	380-470 MHz (Range 1) and 450-520 MHz (Range 2)	136-174 MHz
Channel Spacing	12.5 / 20 / 25 kHz	12.5 / 25 kHz	12.5 / 25 / 30 kHz
Maximum Frequency Separation	Full Bandsplit	Full Bandsplit	Full Bandsplit
Option Pre-Amp	No	No	No
Analog Sensitivity			
20 dB Quieting	.30 µV	0.40 µV	0.40 µV
12 dB SINAD per EIA	.25 µV	0.30 µV	0.30 µV
Digital Sensitivity			
1% BER (12.5 kHz channel)	.30 µV	0.40 µV	0.40 µV
5% BER (12.5 kHz channel)	.25 µV	0.30 µV	0.30 µV
Intermodulation Distortion	80 dB	85 dB	85 dB
Spurious Response Rejection	90 dB	90 dB	90 dB
Audio Output Power at 3% distortion (External/Internal Speaker)	7.5 W (8 Ω ext. speaker) 3 W (int. speaker)	7.5 W (8 Ω ext. speaker) 3 W (int. speaker)	7.5 W (8 Ω ext. speaker) 3 W (int. speaker)
Adjacent Channel Rejection Selectivity (12.5 kHz/25 kHz)	65 dB / 80 dB	75 dB / 82 dB	75 dB / 82 dB
Audio Response (6 dB/Octave De-emphasis from 300 to 3000 Hz)	+1, -3 dB (EIA)	+1, -3 dB (EIA)	+1, -3 dB (EIA)

MILITARY STANDARDS 810 C, D, E, & F

	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F	
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II
High Temperature Storage	501.1	I	501.2	I/A1	501.3	I/A1	501.4	I/Hot
High Temperature Operational	501.1	II	501.2	II/A1	501.3	II/A1	501.4	I/Hot
Low Temperature Storage	502.1	I	502.2	I/C3	502.3	I/C3	502.4	I/C3
Low Temperature Operational	502.1	I	502.2	II/C1	502.3	II/C1	502.4	II/C1
Temperature Shock	503.1	-	503.2	I/A1-C3	503.3	I/A1-C3	503.4	I/Hot-C3
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I
Rain Blowing	506.1	I	506.2	I	506.3	I	506.4	I
Rain Steady	506.1	II	506.2	II	506.3	II	506.4	III
Humidity	507.1	II	507.2	II	507.3	II	507.4	-
Salt Fog	509.1	-	509.2	-	509.3	-	509.4	-
Blowing Dust	510.1	I	510.2	I	510.3	I	510.4	I
Blowing Sand			510.2	II	510.3	II	510.4	II
Vibration Minimum Integrity	514.2	VIII/F, Curve-W	514.3	I/10	514.4	I/10	514.5	I/24
Vibration Loose Cargo			514.3	II/3	514.4	II/3	514.5	II/5
Shock Functional	516.2	I	516.3	I	516.4	I	516.5	I
Shock Crash Hazard	516.2	III	516.3	V	516.4	V	516.5	V
Shock Bench Handling	516.2	V	516.3	VI	516.4	VI	516.5	VI



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