

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 0B106412	OPENING DATE (1:00 p.m.) OCTOBER 14, 2011	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. DOH0115905	BID NOTICE DATE SEPTEMBER 23, 2011	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 Health 246 North High St. Columbus, OH 43215		SHIP TO: Ohio Department of Health 246 North High St. Columbus, OH 43215	
DELIVERY REQUESTED F.O.B./DEST. P.P.D. <u>ASAP</u>		DELIVERY OFFERED (IF DIFFERENT) F.O.B./DEST.P.P.D. _____	
<p>THE DEPARTMENT OF ADMINISTRATIVE SERVICES, OFFICE OF PROCUREMENT SERVICES IS SOLICITING BIDS FOR:</p> <p>TRAILER, MOBILE MORTUARY UNIT</p> <p>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.</p> <p>INSTRUCTIONS, TERMS AND CONDITIONS FOR BIDDING; STANDARD CONTRACT TERMS AND CONDITIONS; AND SUPPLEMENTAL CONTRACT TERMS AND CONDITIONS, Rev. 02/2012 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.</p> <p>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 seven (7) working days prior to the bid opening date.</p>			
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 this 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.

REQUIRED CERTIFICATION FOR BIDDING

Those bidders claiming preference for Domestic Source End Products and/or the Ohio preference, pursuant to Revised Code Sections 125.09 and 125.11 and Administrative Code Section 123:5-1-06 must complete the following information. Bidders who qualify as an "Ohio" bidder (offer an Ohio product or who have significant Ohio economic presence) or who qualify as a Border State bidder are eligible to receive a five percent (5%) preference over non-Ohio/Border state bidders. The state reserves the right to clarify any information during the evaluation process. **BIDDERS MUST COMPLETE THIS CERTIFICATION TO RECEIVE THE PREFERENCE.**

A. DOMESTIC PREFERENCE (BUY AMERICA): [Not applicable to "Excepted Products"]

- Where is each product/services being offered mined, raised, grown, produced or manufactured?
 United States: _____(State) Canada Mexico (Go to B-1)
 Other: (Specify Country)_____ (Go to A-2)
- End product is manufactured outside the United States and at least 50% of the cost of its components are produced, mined, raised, grown or manufactured within the United States. The cost of components may include transportation costs to the place of manufacture and, in the case of components of foreign origin, duty whether or not a duty free entry certificate is issued.
 Yes (Go to Section B-1) No (Go to Section A-3)
- The Bidder hereby certifies that each end product, except the products listed below, is a domestic source end product as defined in the Buy America Act and that components of unknown origin have been considered to have been mined, produced, grown or manufactured outside the United States.
_____(Item) _____(Country of Origin)
_____(Item) _____(Country of Origin)

A domestic end source product is deemed to be excessively priced if it exceeds the cost of the foreign product by more than 6%. Pursuant to FAR, Part 25, the state of Ohio does not acquire supplies or services that cannot be imported lawfully into the United States. The contractor, their subcontractor(s) and any agent of the contractor or subcontractor must not acquire any supplies or services originating from sources within, or that were located in or transported from or through Cuba, Iran, Iraq, Libya, North Korea, Sudan Territory of Afghanistan controlled by the Taliban, or Serbia (excluding the territory of Kosovo).

B. OHIO PREFERENCE (BUY OHIO):

- The products/services being offered are raised, grown, produced, mined or manufactured in Ohio.
 Yes (Go to C) No (Go to B-2)
- Bidder has significant economic presence within the state of Ohio. Yes (Answer a, b, c, d below) No (Go to B-3)
 - Bidder has paid the required taxes due the state of Ohio Yes No
 - Bidder is registered with the Ohio Secretary of State
 Yes (Charter/Registration No.: _____) No
Questions regarding registration should be directed to (614) 466-3910 or visit their web site at:
<http://www.sos.state.oh.us/>
 - Bidder has ten or more employees based in Ohio or border state. Yes No (Go to B-2d)
 - Bidder has seventy-five percent or more employees based in Ohio or border state. Yes No (Go to B-3)
- Border state bidder:
 Yes (Specify which state then go to B-2c): KY MI NY PA IN No (Go to B-4)
- Border state bidder: mined products mined in respective border state Yes No Not Applicable



C. E.D.G.E. DESIGNATION

Bidder is certified E.D.G.E. business Yes No

For information on E.D.G.E. designation, please visit the DAS Equal Opportunity Division website at:
<http://das.ohio.gov/Eod/Edge/Index.htm>

1. DECLARATION REGARDING MATERIAL ASSISTANCE/NON-ASSISTANCE TO A TERRORIST ORGANIZATION (DMA)

The Bidder being awarded this Contract must:

- review the Terrorist Exclusion List at http://www.publicsafety.ohio.gov/links/terrorist_exclusion_list.pdf
- complete the Declaration Regarding Material Assistance/Non-Assistance to a Terrorist Organization (DMA) form <http://www.publicsafety.ohio.gov/links/HLS0038.pdf> and submit this with your bid response.

Failure to complete the Declaration Regarding Material Assistance/Non-Assistance to a Terrorist Organization (DMA) form may result in the bidder being deemed not responsive and/or may invalidate any Contract award. If not submitted with the bid response, the bidder will have seven (7) calendar days, after notification, to submit the form.

PRICE SCHEDULE:

Bidders shall not insert a unit cost more than 3 digits after the decimal point. Digit(s) beyond 3, after the decimal point, shall be dropped by the Office of Procurement Services and not used in evaluation and any subsequent order.

ITEM NO.	QTY.	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED AMOUNT
1.	4.	EA	TRAILER, MOBILE MORTUARY UNIT, AS SPECIFIED	\$ _____	\$ _____

Contains recycled materials – Y/N: _____ if Yes _____%. (Will not be part of the evaluation)

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 Trailer Body: _____

Manufacturer / Model of Refrigeration System: _____

Manufacturer / Model of Generator: _____

Model No. and Size of Tires: _____

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

Contractor will be responsible for all expenses incurred for pick-up and return, or transportation and/or service calls, for repair of any of the equipment, or components thereof, awarded as a result of this bid while said equipment is under warranty.

BIDDER QUALIFICATIONS: The following qualifications will not be factored into the evaluation for the award. Bidder Qualifications will be used to determine the level of experience with producing mortuary trailers. Bidders that do not meet these requirements may be disqualified. Failure to respond may deem the bid not-responsive.

YES NO

- ___ ___ 1. Bidder has been in business for 3 or more years.
- ___ ___ 2. Bidder has produced 5 or more refrigerated trailer units of comparable scope and size.
- ___ ___ 3. Bidder can supply written documentation from customers who have purchased refrigerated trailer units.

SCOPE: This Invitation To Bid (ITB) is issued to purchase four (4) mobile mortuary trailers. The trailers will be 18 feet in length not including the tongue and will have the capacity to store a minimum of 18 bodies. The trailers will have a quiet run commercial generator and a refrigeration system capable of maintaining a range of 34° to 39°. The trailers are for the Ohio Department of Health, 246 North High Street, Columbus, OH 43215. All items not specified which are necessary to provide complete and acceptable trailers shall be furnished by the successful bidder and conform in strength, quality and workmanship. Equipment offered must meet the full operational capacities of the vehicle specified. The trailer bid must be the latest model and include the latest engineering changes. Any deviation from these specifications must be stated in writing on company letterhead.

In accordance with the Ohio Administrative Code, section 123:5, the use of a brand name, or equal, within these specifications, is to be considered an indication of type and quality desired. Substantially equivalent products to those designated will be considered for award.

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.

DESCRIPTIVE LITERATURE: The Bidder may be required to submit descriptive literature of the supplies or services being offered. If requested, the literature will be used in the evaluation process to determine the lowest responsive and responsible bidder. If not provided as part of the bid response, the Bidder must provide said literature within five (5) calendar days after request/notification by the Office of Procurement Services to do so. Any references, that may appear in the descriptive literature, that may alter the terms and conditions and specifications of the bid (e.g. F.O.B. Shipping Point or Prices Subject to Change), will not be part of any contract and will be disregarded by the state of Ohio. Failure of the bidder to furnish descriptive literature either as part of their bid response or within the time specified herein will deem the bidder not responsive.

EVALUATION: Bids will be evaluated in accordance with Article I-17 of the "Instructions to Bidders". In addition, the State will evaluate the Bid based on the unit price of the mortuary trailer with all specified equipment, fully operational and adjusted to factory specifications. To determine the lowest responsive and responsible bidder, the State will multiply the unit price of the vehicle by the quantity.

CONTRACT AWARD: The contract will be awarded to the lowest responsive and responsible bidder by line item. The single line item consists of the trailer body, refrigeration system, electrical system, gasoline generator, and all other specifications stated on pages 6 through 9.

PRE-CONSTRUCTION MEETING: The successful bidder will attend a pre-construction meeting with the Ohio Department of Health (ODH) and other representatives at the discretion of the state. Prior to the launching the construction of the trailers, the state may request a demonstration of the bidders product. In addition, the awarded bidder will attend any and all meetings requested by the ODH to monitor the progress and performance of the mobile mortuary construction.

PERFORMANCE REPORTING: The successful bidder shall submit bi-monthly written progress reports to the ODH. At the completion of the trailer construction, bidder will submit a comprehensive report on all activities performed under this contract award.

DELIVERY AND ACCEPTANCE: Supplies will be delivered to the participating agency before June 15, 2012 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 issued by the participating agency. Acceptance will occur upon the inspection and written confirmation by the ordering agency that the supplies delivered conform to the requirements set forth in the specifications. Unless otherwise provided, acceptance shall be conclusive except as regards to latent defects, fraud, or such gross mistakes as amount to fraud. The transporting and delivery of the trailers shall be accomplished by surface transport, or by tow bar delivery. No bidder name, signs, clips, license plate brackets or other devices shall be affixed to any part of the delivered trailer. Any affixed bidder information may be cause for the return of the vehicle.

Contractor will indicate, by checking the appropriate box(es) below, which mode of transportation will apply to this contract.

- 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.

TRAINING: At a date, time, and location specified by ODH, the awarded bidder shall provide instruction and written training material. The training material shall be the property of ODH and retained for future use of the trailers.

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.

_____	_____
_____	_____
_____	_____

SPECIAL TERMS AND CONDITIONS (Cont'd.)

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 DAS, will be deemed as a default. If a default should occur, DAS 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 page may deem your bid not responsive.

HOSE, WIRING ROUTING, AND HARDWARE REQUIREMENTS: All hoses and wiring shall have adequate conduit protective covers wherever there is a possibility of contact with any other components. Separators shall be used where applicable. No tape or adhesive fasteners will be accepted. All hoses, wiring, and pipes shall be routed to be clear of all heat sources and shall be protected from any present or potential source of snags, abrasions, or sharp edges. If any wiring for any lamps is routed through any tool compartment or canopy, these wires shall be enclosed in protective shield. All fasteners (nuts, bolts, rivets, & etc.) shall be grade 5 or better with rust inhibiting coating.

HEAVY DUTY NOTE: The term "heavy duty" used in the specifications of the ITB shall mean that the item to which the term is applied shall exceed the usual quantity, quality, or capacity supplied with the standard production unit(s) and it shall be able to withstand unusual strain, exposure, temperature, wear, and use.

INSURANCE REQUIREMENTS:

Bidders should provide with their bid, documentation of the following insurance coverage required by the Supplemental Contract Terms and Conditions, Articles S-12 and S-13 (refer to the Bid Page One, link to Instructions: Terms and Conditions for Bidding, Standard Contract Terms and Conditions, and Supplemental Contract Terms and Conditions):

1. Ohio Workers' Compensation Certificate.
2. Employer's Liability (Stop Gap) insurance with limits of not less than one million (\$1,000,000.00) dollars.
3. Automobile Liability with limits in accordance with Federal and State laws.
4. Commercial General Liability Insurance:
 - a. Minimum limits of \$500,000.00 per occurrence.
 - b. Minimum limits of \$1,000,000.00 annual aggregate.
 - c. The State shall be listed as the certificate holder.
 - d. To be compliant, the Commercial General Liability policy must include the following three endorsements:
 - 1) a blanket waiver of subrogation.
 - 2) a statement that the Commercial General Liability coverage is primary over any other coverage.
 - 3) a designation of the State as an additional insured.

An insurance certificate, compliant with the requirements of the Contract Terms and Conditions, must be delivered to the Office of Procurement Services within seven (7) calendar days after notification. Failure to provide a compliant certificate within the stated time frame will cause the bidder to be deemed not responsive.

SERVICE POLICY AND WARRANTY:

The successful contractor shall furnish with the trailer the manufacturer's owner service policies and warranties for the basic trailer, the conversion, and the modification of the trailer and all equipment.

1. The warranty for the basic trailer body shall be the manufacturer's standard warranty. The tires shall be covered by the warranty that is standard to the industry.
2. The warranty for the conversion and modification of the trailer shall provide that all repairs and replacements needed due to factory defects shall be furnished and installed promptly without charge by authorized service representatives for a period of one (1) year after final delivery and acceptance of the vehicle. The warranty for the conversion and modifications of the vehicle shall also provide that all necessary service adjustments shall be made promptly without charge by authorized service representatives within ninety (90) days after the delivery and acceptance of the vehicle.
3. The refrigeration system shall be covered by a warranty providing that all replacement parts and repairs due to defects in material or workmanship shall be furnished and installed promptly without charge by an authorized service representatives within the first year after the delivery and acceptance of the mortuary unit.

SPECIFICATIONS (Cont'd.)

YES NO

- ___ ___ 30. D.O.T. required conspicuity tape installed on both side and rear of trailer.
- ___ ___ 31. Fender wells shall be inside trailer frame.
- ___ ___ 32. Trailer tires shall be tubeless type radial tires with highway tread. Tires shall be rated capacity at least equal to the load imposed on each tire, measured at the wheel, at the ground, with trailer loaded with its maximum rated payload.
- ___ ___ 33. The trailer shall be furnished with four single wheels. Rims shall be white powder coated steel with matching wheel lugs and center caps, rated to match the axle rating. Trailer wheels shall be the manufacturer's current standard.
- ___ ___ 34. Trailer tongue shall be 60" triple tube all-steel construction and shall provide structural strength to resist bending and twisting without permanent deformation or damage under the operating conditions stated. The tongue shall conform to applicable requirements of DOT Federal Motor Carrier Safety Regulations.
- ___ ___ 35. Trailer tongue hitch shall be 2 5/16" ball type and DOT approved breakaway switch.
- ___ ___ 36. Trailer tongue hitch shall have a coupler lock.
- ___ ___ 37. The trailer shall have safety chains, conforming to the one requirement of DOT Federal Motor Carrier Safety Regulations, and SAE J697, shall be furnished.
- ___ ___ 38. Tongue jack shall be a manual operated jack rated at a minimum of 2500# with sand foot.
- ___ ___ 39. One (1) 5 lb fire extinguisher with mounting bracket shall be installed, one as close to the rear door.

REFRIGERATION AND VENTILATION

- ___ ___ 40. Capable of maintaining a range of approximately 34° – 39° depending on outside ambient temperature.
- ___ ___ 41. The thermostat shall be separate from the unit and mounted on the wall of the storage area on the curbside.
- ___ ___ 42. A second thermometer installed on the trailer on the curbside exterior of the trailer unit allowing for temperature monitoring when the trailer is closed.
- ___ ___ 43. Unit is powered through shoreline power and auxiliary electrical system.
- ___ ___ 44. There shall be one (1) non power roof vent that is covered by a max air vent cover.

TRAILER LIGHTS AND ACCESSORIES

- ___ ___ 45. Shockproof lights and electrical per DOT/ICC standard. Tail, brake, and turn signal lights, running lights, and 3 lights ID BAR lights.
- ___ ___ 46. All lights and clearance lamps shall be LED sealed type.
- ___ ___ 47. Sealed wiring harness mounted in rubber grommets whenever the harness is inserted through the metal surface.
- ___ ___ 48. Lighting being mounted will be in accordance to DOT Vehicle Code, mounted to rear most of trailer.
- ___ ___ 49. Furnish and install two (2) 12-volt quarts lights on rear header as high as possible with 12-volt switch to be located at Curbside rear door. In addition furnish and install one (1) 12-volt quarts light on nose of trailer to illuminate tongue and generator. In addition to quarts lights on rear header, install two (2) 110v halogen lamps on header. All above 12 volt lighting shall continue to function when connected to shoreline or generator power.
- ___ ___ 50. The electrical connector cable from the trailer to the vehicle towing shall be equipped with a 7-pin molded electrical connector plug. The connectors/adapters to accommodate major manufacturer's wiring harness must be included.
- ___ ___ 51. All electrical connectors and wiring on exterior of trailer shall be weatherproof.

STORAGE RACKS

- ___ ___ 52. There shall be an aluminum storage rack system in the refrigerated section of the trailer to accommodate a minimum of eighteen one-body aluminum or stainless steel morgue trays.
- ___ ___ 53. Trays shall have the capability of transporting a minimum weight of 350# per body.
- ___ ___ 54. These trays shall have a minimum of 1" round tubing with 8 hand holds and a .060 tray that is a minimum of 4" deep or equivalent.
- ___ ___ 55. Rack system should not be attached to the sidewalls of the trailer or if attached vendor will supply satisfactory structural test results to the purchaser proving adequate floor, sidewall and ceiling integrity. Acceptable documentation to be determined with assistance of the vendor.

SPECIFICATIONS (Cont'd.)

YES NO

STRIPING PACKAGE

- ___ ___ 56. Specific striping allocations on trailers will be determined through collaboration with ODH and awarded contractor.

B. AUXILIARY ELECTRICAL AND LIGHTING SPECIFICATIONS

SERVICE PANEL

- ___ ___ 57. Minimum 1500 Lb. Capacity 120 Volt AC Electric Winch with remote control installed on the interior of the trailer unit against the front wall (wall must be reinforced to withstand the stress placed on it by the use of the winch). The winch must have a minimum of 50' of cable with hook. The winch shall be wired into the electrical system of the trailer.

AC ELECTRICAL SYSTEM

- ___ ___ 58. Furnish and install at a minimum a 50 amp circuit breaker panel with available space for circuit breakers required to supply trailer and equipment with circuit protection for all 110/220 Volt circuitry and a minimum main 50 amp breaker. All of the electrical system shall be constructed of UL listed components. Circuit breakers shall be sized per component manufacture's recommendation or to 125% of anticipated load. Location of panel shall be decided upon reward of bid. This amp panel shall have a twist lock 50 amp motorbase plug for shoreline power hook up.
- ___ ___ 59. Furnish and install two (2) 15 amp, 120-volt GFI wall outlets on the interior curbside of trailer in rear compartment. Furnish and install one (1) 15 amps, 120-volt GFI exterior wall outlet on the nose of trailer. Switches and Power outlets shall be permanently mounted. Separators shall be used where applicable. All electrical loads, A/C shall be protected through the use of resettable circuit breakers.
- ___ ___ 60. Two (2) 4 ft length 2 bulb 120-volt tube florescent light fixtures shall be installed on the ceiling of the refrigerated compartment. There shall be One (1) 4 ft length 2 bulb 120-volt tube florescent light fixtures shall be installed on the ceiling if the storage compartment at the rear of trailer.
- ___ ___ 61. These fluorescent light fixtures shall be equipped with diffuser covers and all necessary fluorescent light tubes.
- ___ ___ 62. Furnish and install interior wall light switch for the fluorescent light on the curb side of trailer at the ramp door. Furnish and install one 12-volt exterior light switch which will be connected to the three (3) exterior quarts lights. The switch shall be located on or near the generator box at the nose of the trailer.
- ___ ___ 63. All wiring to lighting fixtures, switches, accessories, and electrical plugs shall be continuous and routed with the proper gauge wire inside the walls of the trailer. 12 volt wiring shall be of automotive quality wiring using proper gauge wire for current required.
- ___ ___ 64. Wiring shall be color-coded, and flame retardant.

EXTERIOR LIGHTING AND ELECTRICAL OUTLETS

- ___ ___ 65. Furnish and install one (1) exterior 15 amps, 120-volt GFI weatherproof exterior outlet, on curbside, at rear of trailer.

SHORELINE RECEPTACLE

- ___ ___ 66. Furnish and install one (1) shoreline receptacle, twist lock type. Receptacle shall be mounted on the exterior curbside rear of trailer. Receptacle shall be labeled "SHORELINE POWER".
- ___ ___ 67. A heavy-duty 50' rubber-covered 50-amp shoreline cord with twist lock receptacle for trailer hook up and a 4 blade 50 amp RV style plug on shoreline end of cord shall be provided. There shall be a twist lock 50-amp adaptor to adapt to a 30-amp blade type receptacle and a 30 amp to 110V adaptor for this extension cord.
- ___ ___ 68. Trailer shall be equipped with a automatic transfer switch for shoreline connection to protect generator from back feed of shoreline.

DC ELECTRICAL SYSTEM AND AUXILIARY BATTERIES

- ___ ___ 69. DC electrical system shall be a 12V-DC, negative ground system rated for anticipated conversion load. There shall be a 12 volt fuse center for all 12 volt wiring.
- ___ ___ 70. Auxiliary battery compartment shall be a lockable aluminum type battery box and installed on top of the tow hitch.
- ___ ___ 71. A-Frame assembly: Battery compartment shall accommodate one- (1) group 31 deep cycle maintenance free batteries. The battery shall supply power to all 12-volt accessories.

SPECIFICATIONS (Cont'd.)

YES NO

- ___ ___ 72. Furnish and install a PC-30 12 volt converter, 120V input receptacle with an automatic battery charger.
- ___ ___ 73. Converter shall be powered through the shoreline power connector.
- ___ ___ 74. Location of converter/charger combo shall be determined at pre-built meeting.
- ___ ___ 75. All high current battery cabling shall be covered for protection and utilize full-length cable runs sized to load, splices are not acceptable. Terminal ends shall be crimped with manufacturer recommended tooling and sealed using color-coded shrink-wrap. All added wiring for 12VDC load runs shall be AWG 8, 10, 12, and 14, and conform to MIL- W-1678D type D. Wire terminals used shall conform to MIL-T-7928. Terminals shall be insulated with insulation grip, Type II, Class 2, and crimped with tooling recommended by manufacturer.
- ___ ___ 76. Furnish and install four (4) 12-volt dome lights with optic lens equally spaced in the interior of trailer.

GENERATOR

- ___ ___ 77. 7000 KW commercial gasoline generator with quiet run muffler, installed in an aluminum box on the tongue of trailer.
- ___ ___ 78. Fuel supply will be a minimum of 24 gallon total. There shall be two (2) 12-gallon marine type fuel tanks; both are to be mounted on top of the generator out on the tongue. These tanks are to be housed in a lockable, aluminum tread plate box, with easy ability to remove the tank for refilling. The tanks shall have marine quick disconnect to allow the fuel supply to the generator to be changed from one tank to the other. The tank housing shall be adequately vented to prevent build up of fumes.