

INVITATION TO BID
TRAILER MOUNTED DIESEL BYPASS PUMPS
BID NUMBER: 24-04 HNWS

Prepared By:

Holley Navarre Water System, Inc
8574 Turkey Bluff Road
Navarre FL 32566



INVITATION TO BID (ITB)

Holley Navarre Water System, Inc will receive sealed bids for the purchase of one (1) Trailer Mounted Standby Diesel Pump, 24-04 HNWS. Bids will be accepted until 2:00 PM, CST on Wednesday, April 10, 2024.

Bid package and Specifications information may be obtained free of charge from Donna Lupola via email at BIDS@hnws-fl.com, on HNWS website at www.hnws-fl.com/services/procurement.php, or Bidnet Direct at www.bidnetdirect.com/florida/holleynavarrewatersysteminc.

HNWS reserves the right to reject any or all bids and re-advertise.

3/28/2024

INSTRUCTIONS TO BIDDER

1. BID SCHEDULE

Sealed bids for a Trailer Mounted Diesel Bypass Pumps will be received by Holley Navarre Water System, Inc until 2:00 pm, central time, on Wednesday, April 10, 2024. Once bids are opened and reviewed, HNWS staff will forward their recommendations to the HNWS Board at their meeting scheduled for 6:00 p.m., April 16, 2024, in the HNWS Board Room.

2. BID SUBMISSION

- A. Electronic Bids will only be accepted when submitted through the Bidnet's Bid portal at <https://www.bidnetdirect.com/florida/holleynavarrewatersysteminc>
- B. Emailed submissions will not be accepted.
- C. Alternatively, one (1) original and one (1) copy may be delivered to HNWS at 8574 Turkey Bluff Rd., Navarre, FL 32566. Each sealed envelope containing a bid must be plainly marked on the outside as **Bid # 24-04 Trailer Mounted Diesel Bypass Pumps**.
- D. Regardless of the method of delivery, each bidder shall be responsible for his/her bid(s) being delivered on time, as HNWS assumes no responsibility for same.
- E. Bids offered or received after the submission deadline will be rejected and returned unopened to the bidder.
- F. Bidders must use the Bid Form included in this ITB package.

3. BID AUTHORIZATION

A bidder may not modify its bid after bid opening. Errors in the extension of unit prices stated in a bid or in multiplication, division, addition, or subtraction in a bid may be corrected by HNWS prior to award. In such cases, unit prices shall not be changed.

4. AWARD OF BID

- A. HNWS reserves the right to establish priorities and to award the Agreement to a single bidder based upon the total bid or to multiple vendors based upon the items individually bid.
- B. HNWS also reserves the right to selectively purchase any single or any multiple items from this bid.
- C. Once bid awarded, Contract shall be in the form of a Holley Navarre Water System, Inc Purchase Order.

5. TAXES

Holley Navarre Water System, Inc is exempt from federal, state, and local taxes. Tax exempt number 85-8012590296C-3 applies.

6. PAYMENT TERMS

Minimum terms will be Net 30 (30 days after receipt of equipment).

7. EXECUTION OF AGREEMENT

Any action of HNWS in awarding the purchase of any material or performance of a service is subject to and conditioned upon the execution of a written Agreement and/or a Purchase Order between HNWS and the Vendor. It is anticipated that any such Agreement will include the General Provisions for Purchase Order/Agreement appended in this ITB. If Bidders take exception to any General Provisions, Bidders must identify the exceptions, as well as any proposed modifications, with particularity in their Bid Submission. Failure to identify any exceptions will result in a waiver of the same during the Agreement execution phase.

8. BID QUESTIONS

- A. Any questions concerning the specifications or bid submission procedures must be emailed to the Procurement Department Sole Point of Contact (POC) at Bids@hnws-fl.com by Wednesday, April 3, 2024, noon, central time for consideration.
- B. Include bid # 24-04 Trailer Mounted Diesel Bypass Pump in the subject line of email.
- C. Answers will be provided in the form of an addendum.
- D. Only questions answered by addenda will be binding.
- E. Oral and other interpretations or classifications will be without legal effect.
- F. All addenda issued must be acknowledged in your bid response.

9. BID INFORMALITIES

- A. HNWS reserves the right to award this Agreement based upon what HNWS believes to be in the best interests of its members, in the reasonable exercise of its discretion and not solely based upon price.
- B. HNWS further reserves the right to increase or decrease quantities as may be required to meet the needs of HNWS, at the unit price which is bid.

10. NON-DISCRIMINATION POLICIES

HNWS does not discriminate based on race, color, national origin, sex, creed/religion, age, marital status, disability/handicapped status, veteran status or any other legally protected status in employment or provision of service.

SCHEDULE

Contact the HNWS Procurement Department for questions related to the bidding schedule at Bids@hnws-fl.com. The Proposed time schedule as related to this procurement is as follows:

EVENT	DATE/TIME (central time)
Release of ITB	March 27, 2024
Deadline for Questions/Request for Clarifications	*April 3, 2024, by 12:00 pm
Estimated issuance of Addendum: Questions Answered	* April 5, 2024, by 4:00 pm
Proposal ITB Due Date/Time (Deadline)	* April 10, 2024, at 2:00 pm
Recommendation to Board of Directors	** April 16, 2024, at 6:00 pm

*An addendum to this ITB will be issued if any of these dates/times change.

**These dates are after the proposal is due and subject to change. However, an addendum to this ITB will not be issued if any of these dates change. Specific dates/times will be determined at each phase.



HOLLEY NAVARRE WATER SYSTEM, INC
BID NUMBER: 24-04 HNWS
TRAILER MOUNTED DIESEL STANDBY PUMP
BID FORM INCLUDING DELIVERY AND PRICING

MANUFACTURER: _____ MODEL: _____

PURCHASE PRICE: \$ _____

DELIVERY*: \$ _____

OTHER (SPECIFY): \$ _____

TOTAL PURCHASE PRICE: \$ _____

APPROXIMATE DELIVERY DATE: _____

*FOB destination: Holley Navarre Water System, Inc., 8574 Turkey Bluff Road, Navarre, FL 32566

BIDDER'S INFORMATION:

Vendor Name: _____

Address: _____

Contact Person: _____

Contact Person's Title: _____

Phone: _____

Email: _____

Signature: _____

Date: _____

ACKNOWLEDGE RECEIPT OF ALL ADDENDA ISSUED (IF APPLICABLE):

NUMBER ____ DATED _____ NUMBER ____ DATED _____

NUMBER ____ DATED _____ NUMBER ____ DATED _____

TRAILER MOUNTED DIESEL BYPASS PUMPS

SECTION 02580

1. GENERAL

1.1. REFERENCES

- 1.1.1. ANSI (16.5) - Standard for Cast Iron Pipe Flanges and Flanged Fittings.
- 1.1.2.

1.2. SCOPE OF WORK

- 1.2.1. Requirements for providing a diesel trailer mounted pump.
- 1.2.2. The pump shall be delivered to the owner within 6 weeks, or as soon as possible, of contract commencement or as stated in the notice to proceed.

1.3. GENERAL

- 1.3.1. The specifications herein state the minimum requirements of the Holley Navarre Water System Inc (HNWS). All bids must be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. The HNWS may consider as “irregular” or “non-responsive”, any bid not prepared and submitted in accordance with the bid documents and specification, or any bid lacking sufficient technical literature to enable HNWS staff to make a reasonable determination of compliance to the specification. It shall be the bidder’s responsibility to carefully examine each item of the specification. Failure to offer a completed bid or failure to respond to each section of the technical specification (exception yes or no) will cause the proposal to be rejected, without review, as “non-responsive”. All variances, exceptions, and/or deviations shall be fully described in the appropriate section; deceit in responding to the specification will be cause for rejection.
- 1.3.2. EQUIVALENT PRODUCT: Bids will be accepted for consideration on any make and model that is equal to or superior to the specifications provided in this document, as interpreted by HNWS staff. A blanket statement that equipment proposed will meet all requirements will not be sufficient to establish equivalence but will require an explanation at each deviation or substitution.
- 1.3.3. INTERPRETATIONS: In order to be fair to all bidders no oral interpretations will be given to any bidder as to the meaning of the specification’s documents or any part thereof. Every request for consideration shall be made in writing to HNWS. Based on written inquiry, HNWS may choose to issue an Addendum in accordance with Local Public Contract Laws.
- 1.3.4. GENERAL SPECIFICATIONS: Units described shall be new, unused and of the current year’s production. The style of pump being bid must be in production for a minimum of 5 years (include user’s list). The unit shall be of the latest design and in current production, completely serviced, ready for work, and shall include all standard and optional equipment as specified herein. All bidders must have the ability to demonstrate the unit they are bidding on prior to bid date.

- 1.3.5. Bidders must have fully stocked parts and service facility within 100 miles of the office of HNWS. Holley Navarre Water System, Inc., shall have the right to inspect the office and shall be the sole judge of its adequacy to fulfill this requirement.
- 1.3.6. Bidders, at the request of HNWS, must be prepared to review their specifications with HNWS staff and if requested must also be prepared to provide a trial unit for the convenience of HNWS. These services, if needed, are considered as part of the bidder’s proposal and will be provided without cost or obligation to HNWS.

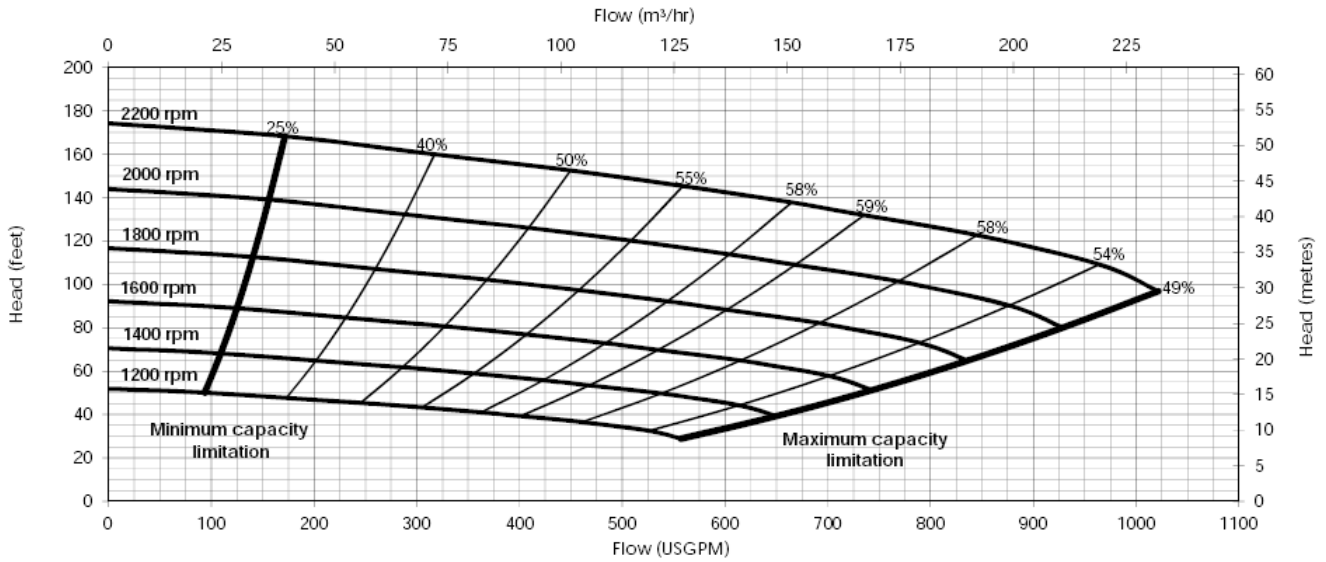
1.4. DESIGN/PERFORMANCE REQUIREMENTS

- 1.4.1. The pump specified in this section will be used to pump raw sewage and water.
- 1.4.2. The pump and accessories shall be supplied by the pump manufacturer.
- 1.4.3. The pump priming system shall be capable of generating 25 inHg (28 feet) of vacuum at sea level. It shall also be capable of operation using extended suction lines.
- 1.4.4. The engine and pump shall be completely enclosed inside an acoustical enclosure to reduce pump and engine noise to 70 dBA or less at a distance of 30 feet.
- 1.4.5. Specific Pump Requirements:

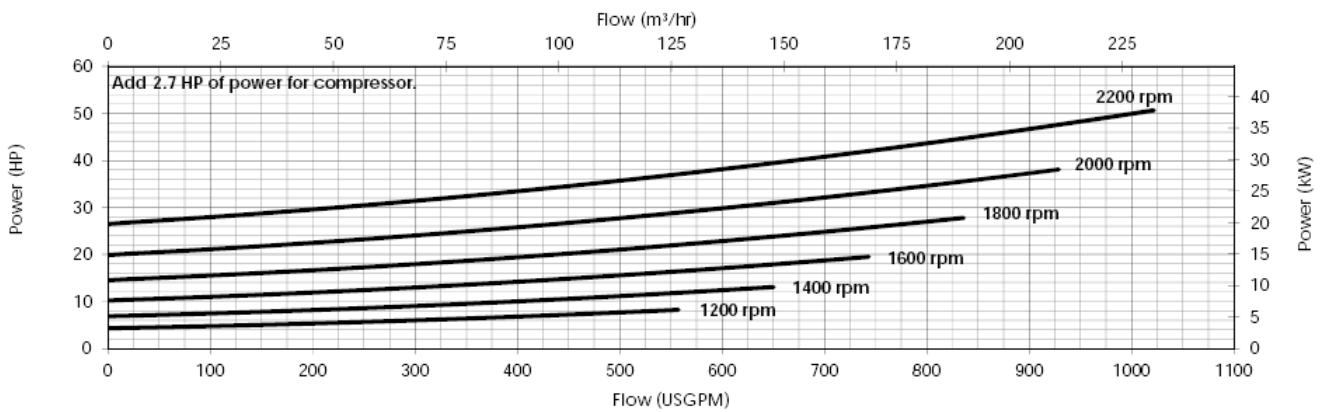
OPERATING SPEED (MAXIMUM)	2200 RPMM
MAXIMUM SOLIDS HANDLING SIZE	3.0 INCHES
IMPELLER DIAMETER	10.1 INCHES
SUCTION SIZE	4 INCHES
DISCHARGE SIZE	4 INCHES
MAXIMUM SUCTION LIFT	28 FEET

- 1.4.6. Performance & Power Curves:
 - 1.4.6.1. The curves on the following page shall be referenced for the pump selection.

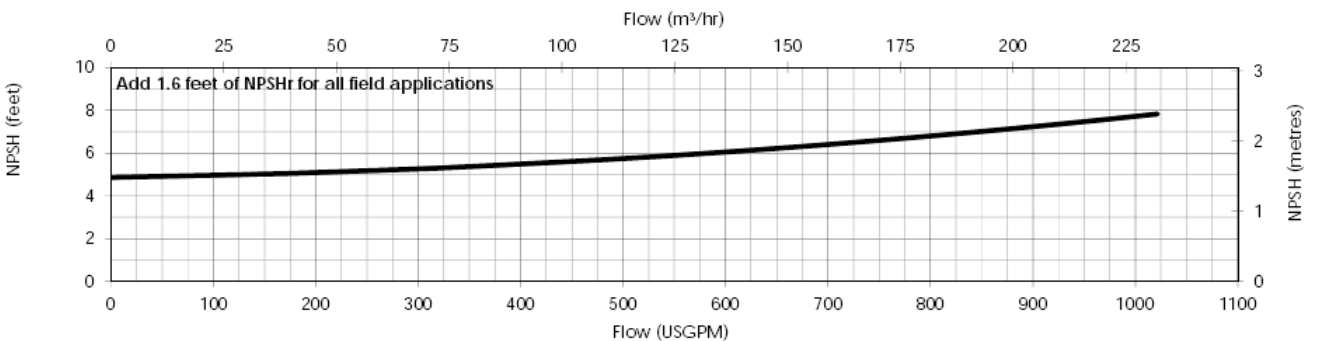
Performance



Power



NPSH



1.5. SUBMITTALS

- 1.5.1. Actual catalog data, brochures and descriptive literature will be required for pumps, piping, valves, and appurtenances as specified herein.
- 1.5.2. I hereby certify that the equipment and devices shown and marked in this submittal are in compliance with the Contract Drawings and Specifications, can be installed in the allocated space, will be stored in accordance with the Manufacturer's recommendation and is submitted for approval.

Certified by: _____ Date: _____

- 1.5.3. Submit shop drawings and product data grouped to include complete submittal of related systems, products, and accessories in a single submittal. No by-pass pump work may be performed until shop drawings are approved. Submit Shop Drawings on the following systems as grouped below:

1.5.3.1. By-pass Pumps

- 1.5.3.1.1. Certified Pump Curve (Variable Speed and Fixed Speed)
- 1.5.3.1.2. NPSH Curves
- 1.5.3.1.3. Horsepower Curves
- 1.5.3.1.4. Pump Efficiency (Pump and Motor Efficiency Provided Separately)
- 1.5.3.1.5. Pump and Motor Materials
- 1.5.3.1.6. Trailer Mount
- 1.5.3.1.7. Coatings
- 1.5.3.1.8. Fuel Tank
- 1.5.3.1.9. Housing

1.5.3.2. Piping and Appurtenances –

- 1.5.3.2.1. Plug Valves
- 1.5.3.2.2. Check Valves
- 1.5.3.2.3. Floats

1.6. QUALITY ASSURANCES

- 1.6.1. Comply with the latest published editions of AWWA and ASTM Standards as applicable for the complete lift station by-pass pump installations.

2. MATERIALS AND EQUIPMENT

2.1. ACCEPTED MANUFACTURERS

- 2.1.1. The pump shall be manufactured by Godwin, Thompson, or Pioneer and meet all specifications presented in this document. The list of options that are to be provided for this quotation will be extracted from the list provided in section 2.4 of this document.

2.2. EQUIPMENT

- 2.2.1. **Pump PRIMING SYSTEM:** Pump shall be fitted with a fully automatic priming system incorporating an air compressor and air ejector assembly. The compressor shall be installed on the structural steel skid base and shall be gear driven, lubricated, and cooled. The priming system shall require no fail-safe protection float gear or any adjusting at high or low suction lifts. The pump must be capable of running totally dry for periods up to 24 hours, then re-priming and returning to normal pumping volumes. Pump and priming system is capable of priming the pump from a completely dry pump casing. Equipment acceptance shall be contingent upon the pump's ability to run continuously at full speed in a completely dry condition. The engineer may require a demonstration.
- 2.2.2. **CASING, SUCTION COVER, AND SEPARATION TANK:** Pump castings shall be cast iron. Pump design shall incorporate a direct suction flow path that is in axial alignment with the impeller eye. There shall be no turns, chambers, or valves between the suction flange and the impeller eye.
- 2.2.3. **IMPELLERS:** The pump impeller shall be an open, two-bladed type with pump-out vanes on the back shroud and fabricated from hardened cast steel (minimum Brinell Hardness 200 HB).
- 2.2.4. **WEARPLATES:** Shall be fully adjustable and replaceable, fabricated of cast iron. Wear plate clearances shall have no relationship to the ability of the pump to achieve a prime.
- 2.2.5. **BEARINGS AND SHAFTS:** Pump shall be fitted with a bearing bracket to contain the shaft and bearings. Bearings shall be tapered roller bearings of adequate size to withstand imposed loads for sustained pumping at maximum duty points. Minimum ISO L10 bearing life to be 100,000 hours. Impeller shafts shall be fabricated of carbon steel.
- 2.2.6. **SEALS:** Seals shall be high pressure, mechanical, self-adjusting type with silicon carbide faces capable of withstanding suction pressures up to 58 psi. The mechanical seal shall be cooled and lubricated in a liquid bath reservoir, requiring no maintenance or adjustment. The pump shall be capable of running dry, with no damage, for periods up to 24 hours. All metal parts shall be made of stainless steel. The elastomers shall be Viton.
- 2.2.7. **PUMP SUCTION AND DISCHARGE FLANGES:** Shall be cast iron ANSI (16.5) Class 150, flat faced.
- 2.2.8. **PUMP GASKETS:** Shall be compressed fiber and/or Teflon.
- 2.2.9. **CHECK VALVE:** Pump shall be supplied with an integral swing-type check valve mounted on the discharge of the pump, allowing unrestricted flow from the impeller. The check valve shall prevent in-line return of flow when the pump is shut off.
- 2.2.10. **DRIVE UNIT:** The drive unit shall be a diesel, water-cooled engine. The engine shall drive the pump by use of a direct-connected intermediate drive plate. The starter shall be 12VDC. A control panel consisting of a low oil pressure safety shutdown, high temperature shutdown, tachometer, and hour-meter shall be integrated into the engine control panel. The unit shall include a tachometer and an hour meter. Battery shall have 180-amp hour rating. The drive unit shall be rated at 46 HP (continuous) at 2200 RPM. A certified continuous duty engine curve shall be supplied to the owner/engineer.
- 2.2.11. **GOVERNOR:** Governor shall be an electronic type. Engine speed shall be adjustable to operate the pump between maximum and minimum design operation speeds.
- 2.2.12. **FUEL SOURCE:** Integral skid fuel tank capacity shall be sufficient to provide at least 25 hours of operating time at full load.

- 2.2.13. SKID BASE: The pump and engine shall be trailer mounted with a 60-gallon integral fuel tank. The fuel tank shall be equipped with drain plugs.
- 2.2.14. FACTORY PAINTING: Unit shall be shop primed and finished painted at the place of manufacturer. Materials and dry film thickness for priming and finishing paint shall be in accordance with manufacturer's standards.
- 2.2.15. The trailer is to connect to the towing vehicle via a Pintle hook connection with safety chains permanently connected to the trailer. The trailer shall have emergency flashing, turn signals, stop, and running, lights that satisfy FDOT requirements for tagging the trailer. Power for the trailer lights shall utilize a 7-Way, weatherproof connector.

2.3. ENGINE CONTROL

- 2.3.1. The engine shall be started, stopped, and controlled by a controller. The controller shall be weatherproof enclosed, and contain an external, weatherproof, 12-position keypad accessible without the need to remove or open any protective cover or enclosure. It shall be designed to start/stop the engine at a signal supplied by high- and low-level floats or a 4-20 mA transducer. The control panel shall provide the following functions without modification, factory recalibration, or change of chips or boards by simply accessing the keypad.
- 2.3.2. The keypad shall be a capacitive, touch-sensing system. No mechanical switches will be acceptable. The keypad shall operate in extreme temperatures, through ice, snow, mud, grease, etc., and maintain complete weather-tight sealing.
- 2.3.3. During periods of inactivity the unit shall conserve energy and go to "sleep" (115mA parasitic battery draw).
- 2.3.4. The controller shall function interchangeably from float switches, pressure switch, or transducer, as well as manual start/stop by selection at the keypad. No other equipment or hardware changes are required.
- 2.3.5. The controller shall be capable of varying the engine speed to maintain a constant level in a process without a change to the panel other than via the keypad.
- 2.3.6. The controller can be programmed to start and stop the pump set up to three times daily or three times a week (i.e., a start, exercise cycle on three separate times for a varying length of time all via the keypad).
- 2.3.7. Manual-Automatic Button
- 2.3.8. In Manual Mode, the "Start" button starts the engine and runs until "Stop" is pressed or an emergency shutdown occurs.
- 2.3.9. In Automatic Mode, start/stop sequencing is initiated by one (1) high-level N/O and one (1) low-level N/C narrow angle float.
- 2.3.10. The Controller shall integrate the engine safety shut-off for low-oil temperature and high-temperature and provide over-speed protection.
- 2.3.11. The Controller shall include standard, field-adjustable parameters for engine cycle crank timer, shutdown time delay, warm-up time delay, and cool-down time delay.
- 2.3.12. The Controller shall have two circuit boards, one for the control board and one capacitive touch keypad board. The capacitive keypad circuit boards have eight (8) available relays that can be programmable to output desired parameter on the display and to be used as dry-contacts for communication with HNWS SCADA systems. All via the key play without changing relays, chips, printed circuits, or any hardware or software.

- 2.3.13. Standard components shall consist of (6) digital inputs, (8) analog inputs, (1) magnetic pick-up input, (6) 10-amp form "C" relays, (2) 20-amp form "C" relays, (1) RS485 port, (1) J1939 port, and (1) 3.8in 320x240 pixel QVGA full graphic LCD display with backlight, (1) 12 position keypad, LED lamps for visual indication of shutdown (red), warning (amber) and power (green).
- 2.3.14. The Controller shall withstand vibration of 3g, 3 axis, frequency swept 5-2000 Hz, in an operating temperature range of -40° to 185°F (-40° to 85°C) and an operating humidity range of 0-70% non-condensing at 85°C.

2.4. OPTIONS

- 2.4.1. FLOAT SWITCHES: The Controller shall be supplied with one-normally open and one-normally closed narrow angle float switches. The floats shall be mechanical, with solid polypropylene construction. Each float will have a minimum of 25 feet waterproof cable wired into a twist-lock wiring harness that connects directly to the Controller via a single multi-pin plug.
- 2.4.2. FULLY AUTOMATIC TRICKLE CHARGER: The unit shall include a fully automatic trickle charger powered by 6-amps, 115 VAC.

3. EXECUTION

3.1. MANUFACTURERS SERVICES

- 3.1.1. The manufacturer shall furnish the services of a competent factory representative to do the following:
- 3.1.2. Inspect the system prior to delivery, supervise the startup and testing of the system, and certify the system has been properly furnished and is ready for operation.
- 3.1.3. Instruct the owner's operating personnel in the proper operation and maintenance of the system for a period of not less than one half day.

3.2. TOOLS AND SPARE PARTS

- 3.2.1. Pre- The manufacturer shall furnish the following on or prior to delivery of the pump.
- 3.2.2. A recommended list of spare parts.
- 3.2.3. An Operations and Maintenance manual.

3.3. WARRANTY

- 3.3.1. The manufacturer shall furnish the following to the owner:
- 3.3.2. A copy of the engine manufacturer's parts and labor warranty.
- 3.3.3. A one-year Parts and Labor Warranty issued by the manufacturer on the sewage pump system. This warranty must cover all pump parts, including the mechanical seal.

END OF SECTION