



CITY OF HOUSTON

Administration and Regulatory Affairs Department
Strategic Purchasing Division

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December 7, 2012

Subject: Letter of Clarification No. 1 to Invitation to Bid No. S50-N24408 for the Purchase of Submersible Pumps for the Public Works and Engineering Department

To: All Prospective Bidders:

This letter of Clarification is being issued for the following reasons:

- **To revise SECTION "B", Scope of Work/Technical Specifications, revise the Electronic Bid Form and respond to questions posed by perspective bidders:**

- 1.) Remove pages 13, 14, 15, 16, of 40 and replace with the revised pages 13, 14, 15, 16, of 40 marked REVISED 12/4/2012.
- 2.) The following are questions posed by perspective bidders and the City of Houston's response:

Question No. 1 Line Item No. 1: We will need 120 calendar days to supply the specified pump?

Answer: See the attached revised page 14 of 40 marked "Revised 12/4/2012".

Question No. 2 Line Item No 1: The original submittal for this pump shows that the pump should produce **11,000 gpm @ 58 feet** instead of 11,000 gpm @ 42 feet as the current pump specification states?

Answer: See the attached revised page 13 of 40 marked "Revised 12/4/2012".

Question No. 3 Line Item No. 2: We will need 84 calendar days to supply the specified pump?

Answer: This line item has been deleted. See the revised Electronic Bid Form and the attached, revised pages 15 & 16 of 40 marked "Revised 12/4/2012".

Question No. 4 The pumps specified is manufactured by a major corporation that is not an approved SMWBE. Hahn Equipment is the manufacturers authorized distributor in Southeast Texas. Therefore we cannot meet the SMWBE Goal of 3%.

Freight:

The vast amount of the freight cost is ocean freight from Sweden to the Port of Houston. Due to the fact that Flygt corporation has a negotiated

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international freight agreement with a freight forwarder. We cannot save any money by using a minority delivery company. We can have the factory delivery the pumps to our facility instead of the Cities facility, then pay a local SMWBE to deliver it to your facility at an additional expense? If we did use an SMWBE to deliver this equipment at an extra cost to the City it would only be approximately .005 to .006 % of the order?

Answer: The City recommends that the company documents its good faith efforts to meet the 3% MWBE goal and submit this information in writing by the date provided in the letter of intent to award along with all other contract submittals to Michael Brown, Public Works & Engineering Small Business Development Group. You may contact him at 832-395-2491 or via email at michael.brown2@houstontx.gov.

Question No. 5: Line Item No 2: Please provide conditions of service: XXXX GPM @ XXXX TDH?

Answer: This line item has been deleted. See the revised Electronic Bid Form and the attached, revised pages 15 & 16 of 40 marked "Revised 12/4/2012".

Question No. 6: Line Item No. 3: 1.3.2.1 – Float leakage sensor are proprietary to that pump manufacturer. Please allow moisture probe relay for detection of water intrusion?

Answer: No. The float switch system is specified. There are two leakage sensors required; one in the motor housing and the second in the chamber housing, both will provide the required nuisance trips. The probe relay does not generate nuisance trips.

Question No. 7: Line Item No. 4: 1.2.9.1 – Please allow CL30 cast iron as it is the standard, (same as other line items)?

Answer: No. Due to the environment where the pumps will be used, the minimum specifications for Line Item No. 4 are accurate for the required impeller.

Question No. 8: Line Item No. 5: 1.2.9.1 – Please allow CL30 cast iron as it is the standard, (same as other line items)?

Answer: No. Due to the environment where the pumps will be used, the minimum specifications for Line Item No. 5 are accurate for the required impeller.

Question No. 9: For all line items, please provide existing pump information on modifications that need to be made for adapting City approved equal pumps to the existing rail system?

Answer: The City approved alternate pump must be able to adapt to the existing rails system which are Flygt.

Note: No further questions will be accepted after the publication of this Letter of Clarification.

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When issued, Letter(s) of Clarification shall automatically become a part of the solicitation documents and shall supersede any previous specification(s) and/or provision(s) in conflict with The Letter(s) of Clarification. All revisions, responses, and answers incorporated into the Letter(s) of Clarification are collaboratively from both the Strategic Purchasing Division and the applicable City Department(s). It is the responsibility of the bidder/respondent to ensure that it has obtained all such letter(s). By submitting a bid on this project, bidders/respondents shall be deemed to have received all Letter(s) of Clarification and to have incorporated them into this solicitation and resulting bid.

Furthermore, it is the responsibility of each Contractor to obtain any previous Letter of Clarification associated with this solicitation.

Arturo Lopez

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Attachments: Revised Page Nos, 13, 14, 15, 16, of 40

**S50-N24408 / Letter of Clarification No. 1
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TECHNICAL SPECIFICATIONS

1.0 Equipment:

LINE ITEM NO. 1 **PUMP AND MOTOR, NON-POTABLE SUBMERSIBLE**

Make: FLYGT

Model: Model No. CP-3531 **Or City Approved Equal**

1.1 Summary of Requirement:

1.1.1 The Contractor shall be required to provide the pump(s) and all fittings, parts and modifications required for, FLYGT, Model No. CP 3531, or City approved equal for Keegan's Bayou Wastewater Treatment Plant, Facility No. 250 located at, 9401 White Chapel Lane, Houston, Texas 77074.

1.1.2 The pump shall be rated for wastewater applications.

1.1.3 *The pump shall be rated at 215 HP, 460 Volt, 3 Phase, 60 Hertz, 11000 GPM @ 58 ft of Head, with 80' of power cable and 1 pilot cable.*

1.2 Pump Specifications:

1.2.1 Performance:

1.2.1.1 Pump shall pump at least 11000 gpm at 42 feet of head (water).

1.2.1.2 Shut off head shall be at least 94 feet of water.

1.2.1.3 Pump hydraulic efficiency at best efficiency point shall be 70% or greater.

1.2.1.4 Pump shall operate in the range of 600-720 RPM.

1.2.2 Pump:

1.2.2.1 Pump shall be constructed of metal capable of withstanding full submersion in corrosive environments and conditions as typically experienced in a wastewater lift station.

1.2.2.2 Pump seals shall be tungsten carbide, silicon carbide, or City of Houston approved equivalent.

1.2.2.3 Pump Impeller shall be manufactured from a corrosion resistant material and coated with a corrosive resistant coating to prolong life and reduce wear.

1.2.2.4 Pump Impeller shall be dynamically balanced.

1.2.2.5 Pump shall be able to pass a minimum of a 4 inch spherical solid.

1.2.2.6 Pump shall be equipped with mounting brackets to allow connection onto existing pump mounts.

1.2.3 Motor:

1.2.3.1 The motor shall comply with National Electrical Manufacturers Association (NEMA) standard MG-1.

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- 1.2.3.2 The motor shall be 3-phase, 60-hertz, 460 volt, rated for continuous duty in at least 40° C fluid.
- 1.2.3.3 The motor windings shall be insulated with at least Class F insulation.
- 1.2.3.4 The motor temperature measuring devices shall be imbedded in the windings to monitor temperature as an input to motor overload protection.
- 1.2.3.5 The combined service factor (combined effect of voltage, frequency, and specific gravity effects) shall be a minimum of 1.15.
- 1.2.3.6 The motor shall have NEMA PREMIUM electrical efficiency or equivalent.
- 1.2.3.7 The voltage tolerance shall be at least plus or minus 10%.
- 1.2.3.8 The power cable shall be sized according to the National Electrical Code (NEC) standards and shall be at least 80 feet long.
- 1.2.3.9 The motor and cable shall be capable of withstanding continuous submergence at 50 feet without loss of integrity.
- 1.2.3.10 The motor horsepower shall be 215 hp or greater so the motor will not overload throughout the entire range of pump performance from shutoff through run-out.
- 1.2.3.11 The motor and pump shall be on the same shaft.
- 1.2.3.12 The motor shall be fully compatible and be able to function as intended when connected to the existing switchgear for any of the wet well pumps of equivalent HP.

2.1 Operation and Maintenance Manuals, Drawings, Training, and Follow-up:

- 1.2.4.1 The Manufacturer or Vendor to supply four copies of O & M Manuals.
- 1.2.4.2 The Contractor shall be required to provide training of required preventive maintenance (PM) of equipment, if needed.
- 1.2.4.3 The Contractor shall be required to be available for questions or follow-ups of equipment training for **90 calendar days** after acceptance of equipment.

2.0 Deliveries / Performance Time:

2.2 The contractor/supplier shall be required to deliver the specific pump(s) to the City of Houston no later than 120 Calendar days after receipt of the City of Houston Purchase Order.

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LINE ITEM NO. 2: THIS ITEM HAS BEEN REMOVED (DELETED)

1.0 — Equipment:

LINE ITEM NO. 2 — PUMP AND MOTOR, NON-POTABLE SUBMERSIBLE

Make: FLYGT

Model: Model No. NP-3153 Or City Approved Equal

1.1 — Summary of Requirement:

1.1.1 — The Contractor shall be required to provide the pump(s) and all fittings, parts and modifications required for, FLYGT, Model No., NP-3153 or City approved equal for the Water Control and Improvement District No. 111 Wastewater Treatment Plant, Facility No. 279 located at, 10601 Huntington Point Drive, Houston, Texas 77099.

1.1.2 — The pump shall be rated for wastewater applications.

1.1.3 — The pump shall be rated at 15 HP, 460 Volt, 3 Phase, 60 Hertz, 1155 RPM, explosion-proof Motor, Impeller No. 624 with 50' of power cable, 10" discharge.

1.2 Pump Specifications:

1.2.1 — Cable Entry:

1.2.1.1 — The cable entrance shall be designed to incorporate both a seal and a strain relief function.

1.2.2 — Cooling System:

1.2.2.1 — The surrounding cooling system liquid shall cool the pump. The pump shall be provided with an internal closed cooling system and the coolant shall be circulated around the stator housing by an integrated pump.

1.2.3 — Seal Wear Protection:

1.2.3.1 — The pump shall have a patented design to protect the outer seal of abrasive particles from the seal chamber.

1.2.4 — Monitoring:

1.2.4.1 — The pump shall have thermal sensors embedded in the stator windings to prevent overheating. The pump's inspection chamber shall be equipped with a leakage sensor.

1.2.5 — Long Life Bearings:

1.2.5.1 — The bearings in the pump shall be designed to provide a minimum 50,000 hour service life.

1.2.6 — Inspection Chamber:

1.2.6.1 — The pump shall have a separate inspection chamber, below the bearings, to increase operational reliability and a built-in sensor to give an early alert of any fluid build-up.

2.3 Manufacturer:

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~~1.2.7.1 The supplier shall be a pump company which also specializes in repairs and installation of pumps.~~

~~1.2.8 Operation and Maintenance Manuals, Drawings, Training, and Follow-up:~~

~~1.2.8.1 The Contractor shall be required to supply four copies of O & M Manuals.~~

~~1.2.8.2 The Contractor shall be required to give training of required PM of Equipment, if needed.~~

~~1.2.8.3 The Contractor shall be available for questions or follow-ups of equipment training for the first three months of purchase.~~

~~3.0 Deliveries / Performance Time:~~

~~3.1 The contractor/supplier shall be required to deliver the specific pump(s) to the City of Houston no later than 90 Calendar days after receipt of the City of Houston Purchase Order.~~