



CITY OF HOUSTON

Annise D. Parker

Mayor

P.O. Box 1562
Houston, Texas 77251-1562

Telephone – Dial 311
www.houstontx.gov
<http://purchasing.houstontx.gov>

January 29, 2015

Subject: Letter of Clarification No. 1 to Invitation to Bid No. S50-N25290 - Furnish and Deliver Various Types and Sizes of Chemical Storage Tanks and Associated Equipment 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 and respond to questions posed by perspective bidders:**

- 1.) Remove Page Nos. 21, 25 & 27 of 38 and replace with Page Nos. 21, 25 & 27 of 38 marked, REVISED 1/29/2015.
- 2.) The following questions and City of Houston responses are hereby incorporated and made a part of the Invitation to Bid:

Question No 1: The specification for Polyethylene Tanks (Line Items 5, 7 & 8) list ASTM D 1998 (this is good) which calls out a one piece molded, seamless construction rotationally molded tank. The thickness called out in 5.3.10 is 1 ¼”. The thickness for the Rotationally Molded High Density Linear is approximately 5/8” for a 4,000 gallon tank, ¾” for a 5500 gallon tank and 1” for a 6,000 gallon tank. Is this acceptable? We know of no tank manufacturers meeting this ASTM D 1998 that can do this bottom wall thickness. Can you change the thickness specification?

Answer: Yes. See the attached, revised Page Nos. 21, 25 & 27 of 38 marked, REVISED 1/29/2015.

Question No. 2: In Items 5, 7 and 8, the specification 5.3.8 calls out triple passes and spark tested flanges. The tanks we will propose will have bolted flanges with corrosion resistant hardware. These are much stronger, more reliable and much more common than any welded flanges. Are these acceptable?

Answer: Yes.

Question No. 3: In Items 5, 7, and 8, the Specification 5.4.6 calls tank to have markings every 200 gallons. Every tank manufacturer has its own marking increment value which may not meet the exact 200 gallon marking. We propose to have a “Gallonage Tape” on the outside that allows you to read the level. This is also easier to read than the tank markings. Is this acceptable?

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Answer: Yes.

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

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

Arturo Lopez
Senior Procurement Specialist
832-393-8731

Attachments: Revised Page Nos. 21, 25 & 27 of 38.

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LINE ITEM NO. 5 TANK, CHEMICAL STORAGE, 4,000 GALLON HIGH DENSITY LINEAR POLYETHYLENE RESIN:

5.1 GENERAL SUMMARY:

5.1.1 The Supplier shall be required to furnish all labor, supervision, transportation and tools necessary to furnish and deliver 4,000 gallon high density linear polyethylene resin tank(s) for storage of ferrous sulfate/calcium nitrate in strict accordance with the specifications included herein. The Supplier shall be required to furnish the tank, fittings, parts and associated equipment required for installation.

NOTE No. 1: City personnel will install the tank.

NOTE No. 2: Existing tanks are located at the City's Windswept, No. 193 and Bintliff, No. 14 Lift Stations.

5.2 GENERAL SPECIFICATIONS:

5.2.1 The tank described shall be new and unused. The tank shall be of the latest design and in current production completely serviced, ready for work and shall include standard and optional equipment as specified herein.

5.3 EQUIPMENT:

5.3.1 ASTM D 1998 Type II- High Density Linear Polyethylene Resin

5.3.2 Vertical 4,000 gallon tank

5.3.3 120" dia. X 104" tall 18" manway

5.3.4 Specific gravity of 1.5 at 73deg

5.3.5 Safety Factor of 1.3

5.3.6 Tank Color: Natural translucent white

5.3.7 Fittings Color: Grey PVC Sch. 80

5.3.8 Tank Welds: Triple passed and Sparked Tested

5.3.9 Top of Tank: 18" manway

5.3.10 The thickness must be 5/8" for a 4,000 gallon tank, 3/4" for a 5,500 gallon tank and 1" for a 6,000 gallon tank.

5.3.11 Temperature: Shall be design for ambient temperature

5.3.12 Pressure: Shall be designed for atmospheric pressure; proper venting is required.

5.3.13 Flange: 1-3" welded ANSI flange

5.3.14 Vent Connection: 1-4" welded ANSI flange

5.3.15 Top Manway: 1-18" welded manway w/cover.

5.4 ACCESSORIES:

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REVISED 1/29/2015

LINE ITEM NO. 7 TANK, CHEMICAL STORAGE, 5,500 GALLON HIGH DENSITY LINEAR POLYETHYLENE RESIN:

7.1 GENERAL SUMMARY:

7.1.1 The Supplier shall be required to furnish all labor, supervision, transportation and tools necessary to furnish and deliver 5,500 gallon high density linear polyethylene resin tank(s) for storage of ferrous sulfate/calcium nitrate in strict accordance with the specifications included herein. The Supplier shall be required to furnish the tank, fittings, parts and associated equipment required for installation.

NOTE No. 1: City personnel will install the tank.

NOTE No. 2: Existing tanks are located at the City's Chimney Rock (2), No. 053 and Gulfton No. 099 Lift Stations.

7.2 GENERAL SPECIFICATIONS:

7.2.1 The tank described shall be new and unused. The tank shall be of the latest design and in current production completely serviced, ready for work and shall include standard and optional equipment as specified herein.

7.3 EQUIPMENT:

7.3.1 ASTM D 1998 Type II- High Density Linear polyethylene Resin

7.3.2 Vertical 5,500 gallon tank

7.3.3 120" dia. X 133" tall 18" manway

7.3.4 Specific gravity of 1.9 at 73deg.

7.3.5 Safety Factor of 1.3

7.3.6 Tank Color: Natural translucent white

7.3.7 Fittings Color: Grey PVC Sch. 80

7.3.8 Tank Welds: Triple passed and Sparked Tested

7.3.9 Top of Tank: 18" manway

7.3.10 Tank Bottom: The thickness must be 5/8" for a 4,000 gallon tank, 3/4" for a 5,500 gallon tank and 1" for a 6,000 gallon tank.

7.3.11 Temperature: Shall be design for ambient temperature

7.3.12 Pressure: Shall be designed for atmospheric pressure; proper venting is required.

7.3.13 Flange: 1-3" welded ANSI flange

7.3.14 Vent Connection: 1-4" welded ANSI flange

7.3.15 Top Manway: 1-18" welded manway w/cover.

7.4 ACCESSORIES:

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LINE ITEM NO. 8 TANK, CHEMICAL STORAGE, 6,000 GALLON HIGH DENSITY LINEAR POLYETHYLENE RESIN:

8.1 GENERAL SUMMARY:

8.1.1 The Supplier shall be required to furnish all labor, supervision, transportation and tools necessary to furnish and deliver 6,000 gallon high density linear polyethylene resin tank(s) for storage of ferrous sulfate/calcium nitrate in strict accordance with the specifications included herein. The Supplier shall be required to furnish the tank, fittings, parts and associated equipment required for installation.

NOTE No. 1: City personnel will install the tank.

NOTE No. 2: Existing tanks are located at the City's 11th Street, No. 063 and Hempstead (1), No. 052 Lift Stations

8.2 GENERAL SPECIFICATIONS:

8.2.1 The tank described shall be new and unused. The tank shall be of the latest design and in current production completely serviced, ready for work and shall include standard and optional equipment as specified herein.

8.3 EQUIPMENT:

8.3.1 ASTM D 1998 Type II- High Density Linear polyethylene Resin

8.3.2 Vertical 6,000 gallon tank

8.3.3 120" dia. X 145" tall 18" manway

8.3.4 Specific gravity of 1.9 at 73deg.

8.3.5 Safety Factor of 1.3

8.3.6 Tank Color: Natural translucent white

8.3.7 Fittings Color: Grey PVC Sch. 80

8.3.8 Tank Welds: Triple passed and Sparked Tested

8.3.9 Top of Tank: 18" manway

8.3.10 Tank Bottom: The thickness must be 5/8" for a 4,000 gallon tank, 3/4" for a 5,500 gallon tank and 1" for a 6,000 gallon tank.

8.3.11 Temperature: Shall be design for ambient temperature

8.3.12 Pressure: Shall be designed for atmospheric pressure; proper venting is required.

8.3.13 Flange: 1-3" welded ANSI flange

8.3.14 Vent Connection: 1-4" welded ANSI flange

8.3.15 Top Manway: 1-18" welded manway w/cover.