



CITY OF HOUSTON

Administration and Regulatory Affairs Department
Strategic Purchasing Division

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January 31, 2012

Subject: Letter of Clarification No. 3 to Invitation to Bid No. S50-C24142 Remove, Furnish and Install Belt Conveyor Systems 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 the Scope of Work/Specifications:**

Section B, Scope of Work/Specifications has been revised: Remove pages 9, 10 & 11 of 22 and replace with the attached pages 9, 10 & 11 of 22 marked, "Revised 1/31/2012".

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 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 pages 9, 10 & 11 of 22 marked, Revised 1/31/2012.

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REVISED 1/31/2012

**SECTION B
SCOPE OF WORK/SPECIFICATIONS**

1.0 Summary of Scope of Work:

1.1 GENERAL

1.1.1 The Contractor shall provide all labor, equipment, tools, supervision, transportation, insurance, permits, bonds and other services necessary to remove and properly dispose of **three** belt conveyor systems and associated equipment from the Sims Bayou North Wastewater Treatment Plant, Facility No. 183 located at 9500 Lawndale, **and two compactor systems, one each**, at Sagemont Wastewater Treatment Plant, Facility No. 171 located at 11700 Sage Arbor and the Turkey Creek Wastewater Treatment Plant, Facility No. 201 located at 1147 Enclave Parkway. The Contractor shall also be required to furnish and install **five** new conveyor belt systems and associated equipment at each of the **five** previous listed locations. The Contractor shall also be required to test, program and insure that all systems are in optimum working condition.

1.1.2 All work shall be completed in strict accordance with federal, state and local regulations, laws and codes. In addition, the Contractor shall be required, at its own expense, to secure approval of the installation drawings/plans from the City of Houston **Public Works and Engineering Department, Wastewater Operations Branch.**

2.0 Performance Time:

2.1 The Contractor shall have **90 calendar days** to complete all the work associated with and required by the contract after receipt of the written Notice to Proceed from the City of Houston, Texas.

3.0 Warranty:

3.1 The Contractor shall warranty all materials, equipment and workmanship for **one year.**

TECHNICAL SPECIFICATIONS

REVISED 1/31/2012

1.1 Scope of Work / Equipment, General:

- 1.1.1 **LINE ITEM NOS. 1, 2 & 3:** The Contractor shall be required to provide all labor, equipment, tools, materials, supervision and transportation necessary to remove and properly dispose of the three existing belt conveyor systems (20" X 45', 24" X 150' and 24" X 18') and associated equipment at the Sims Bayou North Wastewater Treatment Plant, located at 9500 Lawndale, Houston, Texas. The Contractor shall also be required to furnish and install three new conveyor systems and associated equipment in the same size as the ones removed (20" X 45', 24" X 150' and 24" X 18'). The 20" X 45' system delivers debris from the bar screen to the dumpster; the 24" X 150' system delivers sludge cake from the three belt presses to the mixer and **an existing 24" wide and 18' long belt conveyor system delivering lime from the lime silo to the mixer**, at the Sims Bayou North Wastewater Treatment Plant, located at 9500 Lawndale, Houston, Texas.
- 1.1.2 **LINE ITEM NO. 4:** **The Contractor shall be required to provide all labor, equipment, tools, materials, supervision and transportation necessary to remove and properly dispose of an existing compactor system and associated equipment at the Sagemont Wastewater Treatment Plant, located at 11700 Sage Arbor. The Contractor shall also be required to furnish and install a new belt conveyor system and associated equipment in its place. The system delivers debris from the bar screens to the dumpster at the Sagemont Wastewater Treatment Plant, located at 11700 Sage Arbor.**
- 1.1.3 **LINE ITEM NO. 5:** **The Contractor shall be required to provide all labor, equipment, tools, materials, supervision and transportation necessary to remove and properly dispose an existing compactor system and associated equipment at the Turkey Creek Wastewater Treatment Plant, Facility No. 201, located at 1147 Enclave Parkway. The Contractor shall also be required to furnish and install a new belt conveyor system and associated equipment in its place. The system delivers debris from the hopper to the dumpster at the Turkey Creek Wastewater Treatment Plant, Facility No. 201, located at 1147 Enclave Parkway.**
- 1.1.4 **The five new belt conveyer systems shall be complete with electric motor, belt, pulleys, idlers, support frames, bearings, shafts, mechanical take-ups, belt clearance, hoppers, skirt boards, wipers shafts, emergency pull shut-off chord, and all other accessories as required for a smooth and satisfactory operation.**
- 1.1.5 **Site-Specific Conditions:**
- The Contractor is encouraged to visit the site and verify the physical requirements, prior to submitting their bid. The three existing belt conveyor systems at Sims Bayou North Wastewater Treatment Plant are approximately 1.) 20" wide and 45' long from the bar screen to the dumpster, 2.) 24" wide and 150' long from the sludge discharge point of the first belt press to the mixer and 3.) 24" wide and 18' long from the lime silo to the mixer. The existing conveying systems at Sagemont Wastewater Treatment Plant, Facility No. 171, and at Turkey Creek Wastewater Treatment Plant, Facility No. 201 are compactor based,**

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1.2 **Equipment and Material Stipulations:**

1.2.1 The Contractor shall be required to furnish and install new belt conveyor systems, complete with any required concrete work, any mechanical equipment required for proper operation, including complete drive unit (units), any steel, iron and other miscellaneous construction required by the manufacturer's design. Also, **for the belt conveyor systems that will operate in an outdoor environment (barscreen conveyor at Sims Bayou North, and Sagemont and Turkey Creek conveyors);** the Contractor shall be required to install a hinged cover to protect the system from rain, wind, and other environmental elements.

1.2.3 The Contractor shall smooth down with a power grinder all sharp edges or corners of any kind, including cut or sheared edges prior to applying the coating on all metal surfaces. The smoothed surface will be used for frames and legs. The material if not specified as stainless steel, shall be hot-dip galvanized, suitable for **raw sewage debris, sludge cake, and lime.**

1.3 **System Specifications for Performance Requirements:**

1.3.1 The Contractor shall provide a belt conveyor system that is intended to perform continuously (24/7 if necessary) and must be able to be shut down in case of emergency, through the use of a pull cord, an emergency safety stop switch, or a manual push button stop switch located on an **existing electrical panel.**

1.3.2 **The Contractor shall disconnect existing electrical power feeds and safety apparatus at the nearest junction box, remove and replace conveyors and all associated equipment, including electric motor, then reconnect all existing electrical connections to the conveyor, using new flexible seal-tight to the equipment with the same original functionality. Any modifications/upgrades required to the size of the starters or wiring, per NEC codes, will be the responsibility of the Contractor.**

1.3.3 **The Contractor shall provide a belt conveyor system driven by an electric motor and the motor must be able to run on 3-phase, 460/230 V, 60 Hertz, A.C. power supply.**

1.4 **Installation, Start up and Operation:**

1.4.1 The Contractor shall insure that the belt conveyor system is installed, fabricated, erected, and placed in proper operating condition in full conformity with the specifications, engineering data, instructions and recommendations of the manufacturer.

1.4.2 The Contractor shall insure that each drive is supplied from the factory with any and all necessary optional devices required for this application.