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Mayor

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December 8, 2010

Subject: Letter of Clarification No. 4 to Invitation to Bid No: S19-N23818 - Repair of a 48" Fairbanks Morse Pump for the Public Works and Engineering Department

To: All Prospective Suppliers:

This letter of Clarification is issued for the following reasons:

- Revise the Scope of Work as follows:
 - Delete page 7 of 18 and replace with the attached page 7 of 18 marked "**Revised 12-8-10.**"

This clarification is hereby incorporated in this bid document and all bidders are directed to bid accordingly.

When issued, Letter(s) of Clarification shall automatically become a part of the bid documents and shall supersede any previous specification(s) and/or provision(s) in conflict with the Letter(s) of Clarification. It is the responsibility of the bidder to ensure that it has obtained all such letter(s). By submitting a bid on this project, bidder shall be deemed to have received all Letter(s) of Clarification and to have incorporated them into this bid.

If you should have any questions, or if further clarification is needed regarding this Invitation for Bid, please contact me.

Roy Korthals

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Senior Buyer
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cc: Bid File

Attachment: Page 7 of 18 Marked "Revised 12-8-10"

To

REPAIR A 48" FAIRBANKS MORSE PUMP

For

PUBLIC WORKS & ENGINEERING DEPARTMENT

1.0 SCOPE OF SERVICES:

- 1.1 The Contractor shall be required to provide all labor, equipment, facilities, materials, parts, tools, supervision and transportation necessary to repair a 48" Fairbanks Morse Pump, Model No. 5711, Serial Number 1065040 in strict accordance with the manufacturer's recommended standards. All replacement parts shall be Original Equipment Manufacturer (OEM) parts. **No substitutions shall be allowed for OEM parts.**
- 1.2 City of Houston personnel will be responsible for removal, reinstallation of pump and for loading/offloading the pump from the contractor's truck/trailer subsequent to completion of the repairs and return of the pump to the City's facility, located at 2525 SSG Macario Garcia, Houston, Texas 77020. The City's responsibility with regards offloading the pump starts and ends at the City's facility and not at the Contractor's repair site.

2.0 BASIC REQUESTED SERVICES:

- 2.1 The Contractor shall disassemble, clean and sandblast all components and replace the following components/parts with OEM components/parts:
- 2.1.1 Sleeve – CA40 modified 410-484 BHN,
 - 2.1.2 Thrust bearing set
 - 2.1.3 Radial bearing set
 - 2.1.4 Shaft – A108, Gr. 1045, Ground and Polished
 - 2.1.5 All required gaskets, packing material, seals, lip seals, keys and hardware necessary and required for complete reassembly.
- 2.2 The Contractor shall be required to replace the impeller ring, case ring, sleeve; repair the frame, upper and lower bearing housing and cover and, repair frame housing using materials as listed below:
- 2.2.1 Impeller Wear Ring – Stainless Steel, 350-400 BHN Hardness
 - 2.2.2 Casing Wear Ring – Stainless Steel, 410-484 BHN Hardness
 - 2.2.3 Housing is Cl. 30 Cast Iron
 - 2.2.4 Shaft Sleeve - Stainless Steel, 410-484 BHN Hardness
 - 2.2.5 Balancing of the Two Plane Precision Dynamic Balance Impeller to ANSI S2.19 G6.3
 - 2.2.6 **Frame Housing needs to be repaired on what is damaged meeting all of the OEM tolerances and specifications.**
 - 2.2.7 **The Volute will not need to be pulled or machine worked.**
 - 2.2.8 **New shaft is required.**
 - 2.2.9 **Wear rings and shaft sleeves can be machined but OEM tolerances and specifications must be met.**
- 2.3 The Contractor shall be required to re-assemble the pump unit and correctly set bearing clearance, **paint the pump with Fairbanks Morse OEM epoxy paint or City approved equivalent.** and prep rotating assembly for delivery/shipment to the designated City of Houston facility.

END OF DOCUMENT