



CITY OF HOUSTON

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August 6, 2015

Subject: Letter of Clarification No. 1 to Invitation to Bid No. S50-C25484 Remove, Dispose, Furnish and Install External Light Fixtures and Associated Equipment for the Department of Public Works and Engineering

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 answer questions posed by perspective bidders:**

- 1.) Remove Page Nos. 2, 8, 10 & 11 of 22 and replace with the revised Page Nos. 2, 8, 10 & 11 of 22 marked, REVISED 8/5/2015.
- 2.) The following questions and City of Houston responses are hereby incorporated and made a part of the Invitation to Bid:

Question No. 1: I would like to get a copy of the lighting schedule?

Answer: The City does not have that available. The City will be available on site to assist in locating panel location and circuits.

Question No. 2: Would you take another brand that is made in the City of Houston?

Answer: The City has provided three reputable manufactures that have been tested and proven below, in the response to Question No. 3. If your manufacture meets, or exceeds, the required specifications, the City will take it under evaluation for an approved equivalent. (See below, the Specification No. 1.2.2 on Page No. 10 of 22)

1.2.2 EQUIVALENT PRODUCT: Bids will be accepted for consideration on any make and model that is equal to or superior to Lumark Navion NAV-AE-04-E-480-T3-10K-PER-AP-OA/RA1027, as interpreted by the City of Houston. 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.

Question No. 3: Part One, Section 1.0, Paragraph 1.1 calls for replacing 400W Metal Halide fixtures with Philips 150W LED fixtures. Page 12 of the bid documents is a cut sheet for a Philips RX2 type fixture. The 150W version (actually rated 158.5W) of the RX2 type fixture is recommended as a replacement for 200-250W HID style fixtures (See Attachment A). They recommend using the 253W version as a direct replacement for 400W HID fixtures (See Attachment B). As written the 150W version of this fixture will provide lower

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light levels than anticipated therefore leading us to believe the 250W fixture is what was intended. Please confirm which wattage is preferred?

Answer:

Correction: Fixtures found to be equivalent are;

- 1) NAV-AE-04-E-480-T3-10K-PER-AP-OA/RA1027;
- 2) NVN-AE-04-E-8-T3-10K-4-AP-OA/RA1027;
- 3) and Philips RX2160 Ledgine w/253W.

(See the attached revised, Page No. 10 of 22)

Question No. 4:

Part Two, Section 1.2, Paragraph 1.2.2 states that equivalent products will be compared to Lunmark Navion model NAV-AE-04-E-480-T3-10K-PER-AP-OA/RA1027. This fixture as called out is neither the same nor nearly the same as the Philips RX2 150W fixture. The Lunmark fixture as noted is rated at 213W with a 21,038lumen output. Per Attachment A the Philips 150W fixture has 13,783lumen output and Attachment B the 253W Philips fixture has a 22,972lumen output. We believe the 150W call out as questioned above to be inaccurate and should have been 250W. If the 150W fixture was not in error then the Lunmark fixture as called out is grossly over in its output and resultant costs verses the 150W fixtures. Please confirm that the Lunmark as called out is indeed correct for comparing alternates to the 150W Philips fixture? (Note: If question 1 above is corrected to 250W then this question is withdrawn)

Answer:

See the above response to Question No. 3 - corrected to 253 Watts.

Question No. 5:

Part Two, Section 1.3, Paragraph 1.3.2 states fixtures must have 3G vibration testing. This testing parameter is meant for high traffic areas (such as highways) where vehicular traffic constantly vibrates poles and fixtures. These facilities are not that kind of environment. We also observed standard parking lot fixtures (called shoeboxes) at both locations which do not have vibration testing done on them. We believe this requirement is excessive and will prevent the City from receiving the best bids possible because of limited availability of fixtures that have this testing done. It is our professional opinion that this requirement is overkill considering where these fixtures will be used. Therefore we request that this requirement be removed from the bid documents. Please advise?

Answer:

The City standard for roadway is LED.

Question No. 6:

Part Two, Section 1.3, Paragraph 1.3.4 states requirements for mast mounting arm requirements. Are we to supply new mounting arms for each fixture? This will increase project costs if we cannot reuse the existing arms. Please advise?

Answer:

No, use the existing mounting arms; fixture replacement only.

Question No. 7:

In addition to items 3 and 4 above, we note from our site visit on July 30th that there are shoebox fixtures at both locations and mounted on poles that will not readily accept either the Philips or Lunmark fixture without the installation of expensive mounting arms noted in paragraph 1.3.4. The below pictures demonstrate the mounting differences between the two styles.

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Please advise if we are to use the same type fixture to replace all fixtures as currently written in the bid documents or if we are to replace like for like meaning a cobra head for a cobra head and a shoebox for a shoebox? We recommend like for like to avoid additional costs associated with installing new mounting arms to accept the cobra heads.



Standard Cobra Head



Standard Shoebox

Answer: Use same type fixtures, as the existing. The existing fixtures have a small adapter from square to round slip on.

Question No. 8: We note that Type III distribution has been specified for all light fixtures. This is the preferred distribution for fixtures located along a driveway as shown in the cobra head picture above. However there are many fixtures of both cobra head and shoebox varieties that are located in the center areas and not on perimeters as shown in the shoebox picture. We recommend fixtures located in areas such as this receive a Type V distribution pattern which will provide better lighting over a larger area verses the Type 3 which tends to offer side to side coverage. Please advise if this is acceptable?

Answer: No, use as specified.

Question No. 9: In Section B SCOPE OF WORK, PART ONE GENERAL, Pg. No. 8 of 22, what is the requirement of "1.1.1: The Contractor shall be required to provide a Field Audit of the existing system."? If a photometric layout is part of that audit, then are the PDF site plans for the two locations available in DWG format?

Answer: Page. No. 8 of 22, Section B, SCOPE OF WORK, PART ONE GENERAL, Subsection No. 1.1.1, has been **DELETED**. See the attached revised Page No. 8 of 22 marked, REVISED 8/5/2015.

Question No. 10: In Section B SCOPE OF WORK, PART TWO - TECHNICAL SPECIFICATIONS, Pg. No. 11 of 22, are the specifications required to be followed precisely by every manufacturer brand that is bid? Also, there was no mention of UL (safety) or IP ratings (water and dust protection). For example:

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- a) In 1.3.1 - "Tool-less entry, hinged removable power tray door. LED drivers shall be mounted to the aluminum door."
- b) In 1.3.2 - "The fixture must have 3G vibration rating."
- c) In 1.3.3 - "The housing and cast parts must be finished in five stage-super TGIC polyester powder coat paint, 2.5 mil nominal thickness."
- d) In 1.3.4 - "The mast arm mounting must be four-bolt/two bracket slip fitted with cast-in pipe stop and built-in incremental 2.5 leveling steps. The light fixture must have fixed in place bird guard to seal around 1-1/4" or 2" mounting arms."
- e) In 1.3.8 - "The light fixture must be Design Lights Consortium Qualified."

Answer:

Yes, the specification requires all light fixture replacements must be approved UL rating. See the attached revised Page No. 11 of 22 marked, REVISED 8/5/2015.

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

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Attachments: Revised Page Nos. 2, 8, 10 & 11

Letter of Clarification No. 1 to Invitation to Bid No. S50-C25484 - Remove, Dispose, Furnish and Install External Light Fixtures and Associated Equipment for the Department of Public Works and Engineering

SECTION A



REVISED 8/5/2015

FORMAL ONE-TIME BID

**REMOVE, DISPOSE, FURNISH AND INSTALL EXTERNAL LIGHT FIXTURES AND ASSOCIATED EQUIPMENT
FOR THE DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
Bid No. S50-C25484
NIGP Codes: 285-56**

To The Honorable Mayor
and City Council Members
of the City of Houston, Texas (the "City"):

The undersigned hereby offers to provide services necessary to ***Remove, and Properly Dispose of Existing External Light Fixtures and Furnish and Install New External Light Fixtures at Sims South Wastewater Treatment Plant, located at 3100 Old Galveston Road, Houston, TX 77017 and Sims Bayou Wastewater Treatment Plant, located at 9500 Lawndale Street, Houston, TX 77017, for the Department of Public Works and Engineering.*** F.O.B. destination point Houston, Texas, in accordance with the City's Specifications and General Terms & Conditions and/or samples/drawings provided herein. When issued by the City of Houston, Letters of Clarification shall automatically become part of this bid document and shall supersede any previous specifications or provisions in conflict with Letters of Clarification. It is the responsibility of the bidder to ensure that it has obtained all such letters. By submitting a bid on this project, bidder shall be deemed to have received all Letters of Clarification and to have incorporated them into the bid.

The City may accept this bid offer by issuance of a Notice of Award Letter and/or a Purchase Order at any time on or before the 120th day following the day this Official Bid Form is opened by the City. This offer shall be irrevocable for 120 days after bid opening or for 90 days after City Council awards the bid, whichever comes last, but this period may be extended by written agreement of the parties.

The City reserves the option, after bids are opened, to adjust the quantities listed on the electronic bid form upward or downward, subject to the availability of funds, and/or make award (s) on a line item basis.

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SECTION B
SCOPE OF WORK

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REMOVE, DISPOSE, FURNISH AND INSTALL EXTERNAL LIGHT FIXTURES
AND ASSOCIATED EQUIPMENT

PART ONE – GENERAL:

1.0 General Summary:

1.1 The Contractor shall be required to remove and properly dispose of the existing 131, 400W GE Metal Halide external light fixtures, located at the Sims South Wastewater Treatment Plant (WWTP), 3100 Old Galveston Road, Houston, Texas 77017 and 49, 400W GE Metal Halide external light fixtures, located at the Sims Bayou WWTP, 9500 Lawndale Street, Houston Texas, 77017. The Contractor shall also be required furnish and install 131, new 150W Phillips LED Fixtures with photo cell control external light fixtures and 49, new 150W Phillips LED Fixtures with photo cell control external light fixtures at the aforementioned locations. The installation shall be in strict accordance with the technical specifications and electrical drawings stated/referenced herein.

~~1.1.1 The Contractor shall be required to provide a Field Audit of the existing system. (DELETED)~~

1.2 Performance Time:

1.2.1 The Contractor shall have **90 calendar days** to order all supplies/equipment and complete all the work associated with and required by the contract after receipt of the written Notice to Proceed from the City.

1.3 Warranty:

1.3.1 The Contractor shall warranty all equipment, labor, materials and workmanship for **five years**. The first-year, is per the standard contract warranty language in the attached, Document 00700, "General Conditions". The additional warranty for four-years and the option for the City of Houston to purchase an extended warranty shall be priced in the appropriate bid line items.

2.0 SPECIFIED EQUIPMENT OR EQUIVALENT:

2.1 Wherever in the specifications any materials or processes are indicated or specified by patent or proprietary name and/or by name of manufacturer, such specifications shall be deemed to be used for the purpose of facilitating descriptions of the performance, materials and/or processes desired and shall be deemed to be followed by the words, "or equivalent", if not so stated in the specifications herein.

2.2 The burden of proof shall rest with the bidder, in the course of a technical evaluation, to prove that the proposed item(s) are equivalent to the

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PART TWO - TECHNICAL SPECIFICATIONS:

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1.0 GENERAL:

1.1 PROJECT SCOPE:

- 1.1.1 Requirements for Providing LED Street Lighting at City of Houston Wastewater Treatment Plant**

1.2 GENERAL:

1.2.1 The specifications herein state the minimum requirements of the City of Houston. All bids must be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. The CITY 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 the City of Houston 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.

1.2.2 EQUIVALENT PRODUCT: Bids will be accepted for consideration on any make and model that is equal to or superior to Lumark Navion NAV-AE-04-E-480-T3-10K-PER-AP-OA/RA1027, as interpreted by the City of Houston. 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.

1.2.2.1 Fixtures found to be equivalent are;

- 4) NAV-AE-04-E-480-T3-10K-PER-AP-OA/RA1027;***
- 5) NVN-AE-04-E-8-T3-10K-4-AP-OA/RA1027;***
- 6) Philips RX2160 Ledgine w/253W.***

1.2.3 INTERPRETATIONS: In order to be fair to all bidders, no oral interpretations will be given to any bidder as to the meaning of the specifications documents or any part thereof. Every request for each a consideration shall be made in writing to the City of Houston. Based upon such inquiry, the City of Houston may choose to issue an Addendum in accordance with Local Public Contract Laws.

1.2.4 GENERAL SPECIFICATIONS: Units described shall be new, unused and of the current year's production. 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 demonstrated the unit they are bidding prior to bid date.

1.2.5 Bidders, on request of the City of Houston, must be prepared to review their specifications with the City of Houston and must, if requested.

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These services, if needed are considered as part of the bidder's proposal and will be provided without cost or obligation to the City of Houston.

1.3 DESIGN REQUIREMENTS:

- 1.3.1 The light fixture must have a heavy-duty cast aluminum housing and door with extruded aluminum heat sink. Tool-less entry, hinged removable power tray door. LED drivers shall be mounted to die-cast aluminum door.
- 1.3.2 The light fixture must have 3G vibration rating.
- 1.3.3 The housing and cast parts must be finished in five stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness.
- 1.3.4 The mast arm mounting must be four-bolt/two bracket slip-fitted with cast-in pipe stop and built-in incremental 2.5 degree leveling steps. The light fixture must have fixed in place bird guard to seal around 1-1/4" OR 2" mounting arms.
- 1.3.5 The light fixture must have 10kV common and differential mode surge protection.
- 1.3.6 The light fixture must be rated for ambient temperatures from -40 degree C to 40 degree C.
- 1.3.7 The light fixture must be 4000K CCT and a minimum 70 CRI.
- 1.3.8 The light fixture must be Design Lights Consortium Qualified.
- 1.3.9 The light fixture must have a factory installed NEMA twist-lock photo control receptacle. A NEMA photo control must be installed on each fixture.

1.3.10 All light fixture replacements must be approved UL rating.

1.4 TOOLS AND SPARE PARTS:

- 1.4.1 The Contractor shall be required to provide the City of Houston four, (4) Operations and Maintenance manuals.

**A PDF version of the Electrical Fixture Specification Sheet
can be viewed on the following web link**

<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C25484>