ADDENDUM NO. 2

MBWWTP RENEWABLE ENERGY PROJECT CONTRACT NO. W-17-024-201

CITY OF CHATTANOOGA, TENNESSEE

*****Special Notice*****

THE BID DATE FOR THIS PROJECT HAS BEEN CHANGED TO NOVEMBER 5, 2019. THE TIME AND LOCATION OF THE BID OPENING HAVE NOT CHANGED.

*PLEASE NOTE THAT A SECOND PRE-BID MEETING WILL TAKE PLACE ON **OCTOBER 15, 2019 AT 11:00 A.M. LOCAL TIME**, IN THE TRAINING FACILITY, MOCCASIN BEND WASTEWATER TREATMENT PLANT, LOCATED AT 455 MOCCASIN BEND ROAD, CHATTANOOGA, TN 37405. BIDDER ATTENDANCE IS ENCOURAGED BUT NOT MANDATORY.

ADDITIONAL INFORMATION DOCUMENTS

The following documents:

- Questions and Responses No. 01
- Pre-Bid Meeting Notes, Agenda, and Sign-in Sheet

are being provided with this addendum for informational purposes only. The document listed above is not, and will not, be considered part of the Contract Documents.

SPECIFICATIONS

Delete Section 00 01 10 and replace with Section 00 01 10 included with this addendum.

Delete Section 00 11 16 and replace with Section 00 11 16 included with this addendum.

Add Section 00 45 36 included with this addendum.

Add Section 00 45 47 included with this addendum.

Delete Section 00 45 77 and replace with Section 00 45 47 included with this addendum.

Bidder Must Acknowledge Receipt of this Addendum on Bid Form

QUESTIONS AND RESPONSES No. 1

MBWWTP Renewable Energy Project CONTRACT NO. W-17-024-201

CITY OF CHATTANOOGA, TENNESSEE

October 03, 2019

- 1. Q: I would like to request a KMZ file for the site with boundaries
 - R: A KMZ file is not currently available. Files may be provided to the awarded contractor for use in developing the final solar design package.
- 2. Q: Please define Civil Design Responsibilities for Contractor? Will the selected Contractor be responsible for any Civil Design cost? (Advertisement for Bids, Project Specific Paragraph).
 - R: The RFP contains 100% civil design drawings. The selected contractor is not expected to provide changes to the Civil Site design.
- 3. Q: Please provide subsurface reports, geotechnical engineering reports, environmental assessments, hazardous environmental reports, wetland evaluations and any additional technical data. (Instructions to Bidders, Article 4).
 - R: No subsurface report or geotechnical report has been performed. This is the responsibility of the selected contractor.
- 4. Q: Can the PV System Design be altered from 1000Vdc to 1500Vdc? If so, can we use a larger inverter (greater than the 62.5kW inverters specified on the plan set)? (Sign-Seal_C6X61104_flattenedbinder_updated).
 - R: Contractors are asked to design the solar array. The RFP contains a conceptual design only and the selected contractor will fully design the solar array, seek approval from Chattanooga and the owner's engineer and stamp the solar design with a TN stamp. Inverters rated at 1500 Vdc and larger inverters are acceptable as long as they meet local codes and jurisdictions. String inverters are acceptable.
- 5. Q: Can CPS Power Systems North America, SunGrow USA Corporation and ABB be added to the Acceptable vendor list for inverters (string inverters)? (Volume II, Section 48 14 00, A-4 Equipment, A-4.7).

10/3/2019 QR-03-1

- R: Yes, these inverters are acceptable and can be added to the list
- 6. Q: Can we use a 60kW, 1000V inverter? Understanding that a quantity of 50 will be required. (Sign-Seal_C6X61104_flattenedbinder_updated)
 - R: Contractors are asked to design the solar array. The RFP contains a conceptual design only and the selected contractor will fully design the solar array, seek approval from Chattanooga and the owner's engineer and stamp the solar design with a TN stamp. String inverters at 60 kW, and 1000 V are acceptable.
- 7. Q: Can the conceptual layout footprint be altered in order to optimize racking and electrical strings? Eg) move the northern most 4 module rack to the end of another rack and possibly increase/decrease row lengths within the preliminary designed fenced area? (Sign-Seal_C6X61104_flattenedbinder_updated, E-01).
 - R. Yes. Bidders are asked to submit a layout within the existing footprint that would maximize production.
- 8. Q. Please define contractors responsibility between riser pole(s) to existing MV lines. The preliminary site plan shows one riser pole and no connection to existing overhead service but the preliminary one-line diagram shows two separate connections from the switch gear to two separate existing MV lines. (Sign-Seal_C6X61104_flattenedbinder_updated, E-01, E-04, E-05).
 - R. The selected contractor is required to deliver a turn-key project. All necessary interconnection design and equipment should be delivered.
- 9. Q. Can the Module wattage that is specified in the plan set be replaced with another approved wattage class? 395W modules may or may not be available. (Sign-Seal_C6X61104_flattenedbinder_updated).
 - R. Yes. Bidders are encouraged to design and procure solar products that maximize the array output.
- 10. Q. The agreement document defines contract times but does not give a specific commencement date. Does the City have specific commencement or completion dates? (Agreement, Article 4).
 - R. The contract time from NTP to final completion is 180 days. At this point, the exact NTP date is not known schedule is very important to this project and the City does not anticipate any delay in processing.
- 11. Q. Are all the forms in Volume I available in Word Format for ease of completion? (General Question)

10/3/2019 QR-03-2

R. No. Please complete the Volume 1 forms using the existing PDF documents.

10/3/2019 QR-03-3



City of Chattanooga, Water Resources Division

Meeting Notes

Subject: MBWWTP Renewable Energy Project (W-17-024-201)

Date: 9/30/19

Time: 3:00 PM – 4:00 PM

Location: Moccasin Bend WWTP – Training Facility

Organizer: Jacobs Engineering

Topics Discussed

List of Attendees is attached.

- Chris Palmer opened the Pre-Bid Conference with introductions.
- Jason Bodwell read through Project Overview and associated quantities of major bid items and followed through Agenda (attached).

Technical Items:

- "Turn-Key" project utilizing Jacobs conceptual design was stressed. Bidders are to finalize the
 conceptual solar design within the established project footprint, seek approved of the final
 design from Chattanooga and the owner's engineer and stamp the final drawings.
- There are wetlands onsite. Permits have been applied for and are expected to be acquired in late November 2019 or early December 2019. 404 and 401 permits need to be in hand prior to construction in wetlands areas.
- Contractors to follow minimal wetland impact footprint. Details provided in package.
- Civil Design has been completed to 100% by Jacobs.
- Any desired Geotechnical testing is the responsibility of the Contractor. Pull test has not been completed and is the responsibility of the selected contractor.



- Interconnection point is proposed in the conceptual design. Contractor shall finalize. Conceptual and one-line drawings are provided. If a better interconnection point is identified and approved by Chattanooga and the owner's engineer, that is acceptable.
- Initial Archeological testing has been completed with a few and minor findings.
- Some design requirements include: integratation into the existing plant SCADA system.
 Utilization of existing fiber line located at the Training Facility building. S&C Vista switchgear is preferred by Chattanooga and should be incorporated into the design.. Security camera requirements are noted in Solar Energy Electrical Power Generation Equipment specification 48 14 00.

Non-technical Items:

- Bid opening is 2:00 PM on October 22nd, 2019.
- Contractor Identification (Section 00 45 77) sheet must be on the outside of the bid package envelope and thoroughly completed or the bid will not be considered.
- Project is not a straight price bid, evaluation is described within the specifications. See criteria in Bid Form 00 41 00.
- Stressed that all required documents outlined in package will need to be present or the bid will not be considered. There are standard and non-standard requirements.
- There is an alternative for a 5yr O&M contract requested. This alternative price will not be included in the overall price. The details of this 5yr O&M price are detailed at the end of Solar Energy Electrical Power Generation Equipment specification 48 14 00.
- All questions should be provided in writing to the Purchasing Agent as instructed on the bid form. Email address is purchasing@chattanooga.gov.
- The schedule requires Substantial Completion to occur 180 days from notice to proceed.
 Chattanooga cannot provide a definitively notice to proceed date at this time, but the city wishes to move the contracting process forward as quick as possible.
- Questions discussed included:
 - o Who is responsible for security?
 - The Contractor is responsible for security of the site and their equipment throughout construction.
 - o Can the contractor provide their own design layout for the solar panels?

- Yes. Do not extend past the site boundaries in the design package. This is in part to minimize wetland impacts. Solar array should be design with the goal to maximum output.
- What are the requirements for roads and access roads?
 - See Civil drawings and specifications.
- Are 4 points of entry required?
 - The 4 entry points correspond to the existing roads within the site. See civil drawings and specifications.
- o What guarantees are required?
 - See specifications. Solar Energy Electrical Power Generation Equipment specification 48 14 00.
- Are conceptual drawings acceptable for the Bid with detailed/stamped drawings to follow later?
 - Yes
- o Is there a preference on buried or hanging CAB system?
 - No preference.
- o Is single track access acceptable?
 - No. Fixed is required.
- o What does Notice to Proceed mean?
 - When the agreement is signed and ready to move forward. Considerations will be made if there are issues with the permit delays, although no issues are expected.
- o What is the timing of the project being awarded in relation to the permits arriving?
 - Permits are expected to arrive late November 2019 or early December 2019.
 Expect a 30 day awarding period following the bid date followed by a 30 day period for Notice to Proceed.



City of Chattanooga, Waste Resources Division

Meeting Agenda

Subject: W-17-024-201 MBWWTP Renewable Energy Project Pre-Bid Meeting

Date: September 30, 2019

Time: 3:00 p.m.

Location: MBWWTP Training Facility

Organizer: Jacobs

Topics of Discussion

1. Introductions

- 2. Project Overview
 - a. Finalize the solar design, seek approval of the design from Chattanooga, supply ALL material and equipment to deliver a turn-key behind-the-meter project.
 - b. Design is silent on the panel wattage. The goal of this project is to produce the greatest output in the space provided. Propose with the highest panel wattage or output you can deliver.
 - c. Interconnection point location is identified. The design should include the most appropriate interconnection point and equipment.
 - d. System should fully integrate with existing MBWWTP SCADA system.
 - e. Fiber is currently located at Training Facility.
 - f. Review security in Specification 48 14 00 Section A-4.13
 - g. Necessary geotechnical information should be provided by the contractor
 - h. Work in wetlands cannot begin until necessary permits are acquired. Expected late November to mid-December.
- 3. Bidding Documents
 - a. Bid Date October 22, 2:00 P.M. at City Hall, Suite G13
 - b. Bid Submittal
- 4. Schedule
 - a. 180 days from NTP
- 5. Accessibility
 - a. Contractor fully responsible for access and security to the work site.
- 6. Addendum
 - a. Meeting Minutes and Sign-in Sheet
- 7. Questions ???



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City of Chattanooga, Water Resources Division W-17-024-201

MBWWTP Renewable Energy Project Pre-Bid Meeting Sign-in Sheet

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Silvery C	Harry. Smith @ Sigo tasdor, Con Mery. Each 28 @ / East all 2504 jorrose @ Chattonogo, gov Con O. Viv-Solis. Com	Brighton Comming and a con	Manks and a mail. con	Shassler @ ameresco. Com sam. Stopentescità auctors. com sam herward e principle en a primara landon electric. com	Maler (2) tristate cc.com 35. Sucras @ Sume Sumes 1:000 muleinact. Pentrum Q Malviner sive Klingre @ falling regan com TPetere mesams. Con SAMERES @ CEPTICE - will thus - Con

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00 45 13	Statement of Bidder's Qualifications
00 45 19	Affidavit of No Collusion by Prime Bidder
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Appendices

Appendix A: Solar Generation Interconnection Agreement – Electric Power Board

Appendix B: Product Data - Equipment Supply Matrix

Advertisement For Bids

MBWWTP RENEWABLE ENERGY PROJECT CONTRACT NUMBER W-17-024-201

CITY OF CHATTANOOGA, TENNESSEE

Sealed Bids for furnishing all materials, labor, tools, equipment and appurtenances necessary for the construction of the MBWWTP Renewable Energy Project will be received at the City of Chattanooga at City Hall, Purchasing Department, Suite G13, 101 East 11th Street, Chattanooga, TN 37402, until 2:00 p.m., local time, on **November 5, 2019**, and then at said office publicly opened and read aloud.

A Pre-Bid Conference is scheduled for **September 30, 2019** at 3:00 P.M. local time and a second Pre-Bid Conference is scheduled for **October 15, 2019** at 11:00 A.M. local time, in the Training Facility, Moccasin Bend Wastewater Treatment Plant, located at 455 Moccasin Bend Road, Chattanooga, TN 37405. Bidder attendance is encouraged but not mandatory.

Project Specific. Construct a solar PV array at the Moccasin Bend WWTP in Chattanooga, TN. This array will provide "behind-the-meter" renewable solar to the Moccasin Bend WWTP. This is a turnkey project and the selected contractor shall complete (or subcontract) the solar PV design along with a Tennessee engineering stamp/signature, the civil site development, the installation of the solar array (racking construction, panel installation, inverter installation, wiring, SCADA, and all other equipment to make a fully functional solar project), interconnection of the solar array to the Moccasin Bend WWTP to provide solar power to the WWTP. The contractor shall also provide project commissioning, start-up and performance testing.

A conceptual layout of the solar array and interconnection to the Moccasin Bend WWTP is provided within along with a civil site design. The selected contractor will be required to finalize the design for approval by Chattanooga and its owner's engineer, purchase and install all equipment and materials for a successful project. The conceptual layout provides the footprint of the solar array. This footprint should not be altered in the solar design without clear communication with Chattanooga and its owner's engineer. The footprint was determined in order to reduce the wetland impact and was used in the Army Corp of Engineers 404 permitting process. The Army Corp of Engineers 404 has been completed and submitted by the owner's engineer and approval is expected shortly. No work shall commence on this project until 404 and 401 permits are issued.

The Instructions to Bidders, Bid, Contract Agreement, Drawings, Specifications and forms of Bid Bond, Performance Bond, Payment Bond and other Contract Documents may be examined at the following:

City of Chattanooga Purchasing Department 101 E. 11th Street, Suite G13 Chattanooga, Tennessee 37402 423-643-7230 Jacobs Engineering Group, Inc. 631 Broad Street, Suite 300 Chattanooga, TN 37402 423-779-3075

Advertisement For Bids

Copies of Contract Documents may be purchased from 8:00 am to 4:30 pm, Monday through Friday, at the office of the City of Chattanooga Purchasing Department, 101 East 11th Street, Suite G13, Chattanooga, TN 37402, phone (423) 643-7230, Fax (423) 643-7244. Cost of Contract Documents is \$100.00 per flash drive. No part of the purchase price will be refunded.

Each Bid must be accompanied by a Bid Bond, prepared on the form of Bid Bond attached to the Contract Documents or a Surety Company's Standard Bid Bond, duly executed by the Bidder as principal and having as surety thereon a surety company licensed to do business in the State of Tennessee and listed as a certified company in the latest issue of U.S. Treasury Circular 570, in the amount of five percent of the Bid.

The allotted time for construction is 180 calendar days.

No bid may be withdrawn within 180 calendar days after the scheduled time for receipt of bids.

All bidders must be licensed and shall comply with all requirements of the State of Tennessee Contractor's Licensing Act.

Visit City website at: www.chattanooga.gov/general-services/purchasing/bidssolicitations for specific contract information.

The City of Chattanooga is an Equal Opportunity Employer.

Any contract or contracts awarded under this Advertisement for Bids are expected to be funded with local funds in addition to funds indicated elsewhere.

The Owner will in no way be liable for any costs incurred by any bidder in the preparation of its Bid in response to this Invitation to Bid.

The successful Bidder for this Contract will be required to furnish a satisfactory Performance Bond and Payment Bond each in the amount of 100 percent of the Bid.

The Owner reserves the right to reject any or all Bids, to waive informalities and to re-advertise.

CITY OF CHATTANOOGA, TENNESSEE

RECOMMENDED FOR APPROVAL:

APPROVED:

William C. Payne, P.E.

City Engineer

Department of Public Works

Justin C. Holland
Administrator

Department of Public Works

END OF SECTION

Affirmative Action Plan

Affirmative Action Plan For City of Chattanooga W-17-024-201

(Name of Contractor)	

The above named Contractor is an equal opportunity employer and during the performance of this contract, the Contractor agrees to abide by the Affirmative Action Plan of the City of Chattanooga as follows:

- 1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or handicap. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, national origin, or handicap. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay, or other forms of compensation, and selection of training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
- 2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin, or handicap.
- 3. The Contractor will send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice advising the said labor union or works' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- 4. The DBE goal for this project has been set at 0%.
- 5. This Plan or any attachments thereto shall further provide a list of all employees annotated by job function, race, and sex who are expected to be utilized on this project.
- 6. During the term of this contract the following non-discriminatory hiring practices shall be employed to provide employment opportunities for minorities and women:
 - a. All help wanted ads placed in newspapers or other publications shall contain the phrase "Equal Employment Opportunity Employer".
 - b. Maintain systematic contracts with minority groups and human relations organizations.
 - c. Encourage present employees to refer qualified minority group and female applicants for employment opportunities.
 - d. Use only recruitment sources which state in writing that they practice equal opportunity. Advise all recruitment sources that qualified minority group members and women will be sought for consideration for all positions when vacancies occur.

W-17-024-201 C6X61104

Affirmative Action Plan

- 7. During the term of this contract, the Contractor, upon request of the City of Chattanooga Office of Economic and Community Development, will make available for inspection by the City of Chattanooga Office of Economic and Community Development, copies of payroll records, personnel records, documents and other records that may be used to verify Contractor compliance with these equal opportunity provisions.
- 8. The Contractor agrees to notify the City of Chattanooga Office of Economic and Community Development of any failure or refusal on the part of the contractor or any subcontractors to comply with the equal opportunity provisions set forth. Any failure or refusal to comply with the aforementioned provisions by the Contractor and/or Subcontractors shall be a breach of this contract.

(Signature of Contractor)
(Title and Name of Construction Company)
(Date)

W-17-024-201 C6X61104

Iran Divestment Act Compliance Certification

In accordance with Tennessee Code Annotated (TCA) § 12-12-101 *et. seq.*, by submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to TCA § 12-12-106.

SIGNATURE:	
NAME PRINTED:	
COMPANY:	
_	
DATE: _	

W-17-024-201 C6X61104

Contractor's Identification

(ALL BLANKS MUST BE FILLED. USE N/A AS NECESSARY)

This form shall be attached to the sealed envelope containing the Bid. All prime contractors and contractors for electrical, plumbing, and heating, ventilation, and air conditioning contracts for bids of \$25,000 or more and/or masonry items for \$100,000 or more are required to complete this form pursuant to TCA-62-6-119. Failure to provide all of this information on the sealed envelope shall be considered a non-responsive Bid and shall not be opened or shall automatically disqualify such bid.

BIDDER:	Complete the following for all applicable Electrical, Plumbing, Masonry and Heating, Ventilation and Air Conditioning Subcontractors: Prime Contractor must fill in space below when
Name:	performing Electrical, Plumbing, or Heating, Ventilation and Air Conditioning Sub-Contractor work for any bids of \$25,000 or more; and for Masonry for any bids of \$100,000 or more:
Address:	Subcontractor:
	Tennessee License No.:
	License Expiration Date:
	License Classification:
If TaxID Number (TIN) issued, list below. Otherwise, list Owner's Social Security Number (SSN).	Monetary Limit:
TaxID Number:	(\$)
	Subcontractor:
Tennessee License No.:	Tennessee License No.:
License Registration Date:	License Expiration Date:
License Expiration Date:	License Classification:
Monetary Limit:	Monetary Limit:
(\$	(\$)
Classification:	Subcontractor:
	Tennessee License No.:
	License Expiration Date:
	License Classification:
	Monetary Limit:
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CITY OF CHATTANOOGA Purchasing Department 101 E. 11th Street, Suite G13 Chattanooga, Tennessee 37402

LOCATION: City Hall, Purchasing Department

101 E. 11th Street

Suite G13

Chattanooga, Tennessee 37402

SEALED BID PROPOSAL FOR:

MBWWTP Renewable Energy Project Contract Number: W-17-024-201

DATE OF BID OPENING: November 5, 2019

TIME: 2:00 p.m.