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ADDENDUM NO. 2

Dated: December 1, 2021

Chetek Reactive Sand Filtration Request for Qualification

Chetek, WI

From: CBS Squared, Inc.
770 Technology Way
Chippewa Falls, WI 54729

To: Document Holder

DOCUMENT HOLDERS on the above-named project are hereby notified that this document shall be appended to, take precedence over and become part of the original bidding documents dated November 15, 2021, for this work. Submittals for the pre-selection process shall conform to this document.

This addendum consists of one (1) page, and eleven (11) pages of the Chetek Reactive Sand Filtration Request for Qualification in its entirety.

Changes to the Chetek Reactive Sand Filtration Request for Qualification:

Changes throughout the Chetek Reactive Sand Filtration Request for Qualification due to the replacement of all instances of "Reactive Sand Filtration" with "Continuous Backwash Sand Filter", and the replacement of all instances of "RSF" with "CBSF".

Corrections of all instances of "MBR" to "CBSF"

Changes to the Chetek Reactive Sand Filtration Request for Qualification QuestCDN Bid/Response Posting Name:

Change of Chetek Reactive Sand Filtration Request for Qualification (eBidDoc™ Number: 8075237) QuestCDN Bid/Response Posting Name from "Chetek Reactive Sand Filtration Request for Qualification" to "Chetek Continuous Backwash Sand Filter Request for Qualifications".

NOTICE TO EQUIPMENT SUPPLIERS

The City of Chetek (City) hereby gives notice that they have elected to pre-select an equipment supplier for a Continuous Backwash Sand Filter (CBSF) System, included as part of the New Wastewater Treatment Plant (WWTP) with CBSF System to be undertaken by the City.

Electronic and paper/hard copy qualification packages will be received until 2 P.M., local time, on Monday, December 6th, 2021. Suppliers may choose which method of submittal they prefer.

Electronic packages are to be submitted via email at the addresses listed below. Submit one (1) copy of the qualification package via email to the following recipients:

To: tmccarthy@cbssquaredinc.com

Cc: dknapp@cityofchetek-wi.gov

Paper/hard copy packages are to be delivered to the Chetek City Hall at the address listed below. Deliver three (3) copies of the qualification package to the following address:

Chetek City Hall
Attn: Dan Knapp
220 Stout St.
Chetek, WI 54728

It is mandatory that all CBSF System suppliers interested in providing equipment to the City for the new WWTP, either directly or through a product representative or sales company, provide all materials requested herein, and be pre-selected by the City via this qualification evaluation process. The General Contractor will be required to list the selected equipment manufacturer with their bid.

Copies of the Request for Qualification for Equipment Suppliers will be published and posted on the City of Chetek's website at <https://www.cityofchetek-wi.gov/> as well as via QuestCDN under eBidDoc™ Number 8075237. For assistance and free membership registration, contact QuestCDN at 952.233.1632 or info@questcdn.com.

Only equipment manufacturers, herein referred to as "suppliers", and the specific equipment described in response to this request are eligible to be pre-selected for the work. No product representative or other third-party marketing or sales organization will be pre-selected. This does not limit the participation of these companies in the project, but merely requires that the actual equipment manufacturer be pre-selected for the work.

Answers to questions described in this request for qualification as well as supplemental information as noted herein, are required from prospective suppliers.

The City decision will be based on the evaluation criteria described herein.

The City reserves the right to modify the technical specifications for the equipment described in this request prior to issuing the project Construction Documents. Such modification will not impact the outcome of this pre-selection process. Pre-selection will not relieve any bidder or supplier from meeting the requirements of the final project Contract Documents.

The Qualification Submittal is a request for information and a cost quotation. Suppliers are advised that a formal cost quotation for the CBSF System equipment is requested and should be included with the Qualification Submittal. Suppliers are further advised that this project must follow USDA American Iron and Steel (AIS) requirements and applicable equipment will be required to follow AIS requirements.

The City reserves the right to waive minor irregularities and omissions in the information contained in the qualification submittal and to make all final determinations.

The anticipated schedule for equipment supplier pre-selection is summarized as follows:

| Milestone | Date |
|---|----------------------------------|
| Issue Qualification Request Document | November 15 th , 2021 |
| Supplier Submits Qualification Response | December 6 th , 2021 |
| Supplier Notifications | December 15 th , 2021 |

The City may refuse to pre-select a supplier where the requested information and materials are not included in the qualification package, or not provided by December 6th, 2021. The closing time for submittal of qualification documents will not be changed in order to accommodate supplementation of incomplete submissions, or late submissions.

Questions about the Equipment Supplier Pre-Selection may be submitted via email to the City's Engineer, with the following contact information:

Attn: Tia McCarthy, P.E.
CBS Squared, Inc.
2120 Pewaukee Road
Suite 100
Waukesha, WI 53188
Ph: 414-882-0083
tmccarthy@cbssquaredinc.com

- END OF NOTICE -

SECTION 1

INSTRUCTIONS FOR QUALIFICATION SUBMITTALS

1.1 DELIVERY OF SUBMITTAL

The Qualification Submittal shall be submitted either electronically or by paper/hard copy.

Electronic submittals shall be emailed to the following location:

To: tmccarthy@cbssquaredinc.com

Cc: dknapp@cityofchetek-wi.gov

Paper/hard copy packages are to be delivered to the Chetek City Hall at the address listed below. Deliver three (3) copies of the qualification package to the following address:

Chetek City Hall
Attn: Dan Knapp
220 Stout St.
Chetek, WI 54728

The email or transmittal letter accompanying the submittal shall plainly identify the subject of the submittal (Equipment Supplier Pre-Selection: CBSF System); the project title New WWTP with CBSF System; and the name, address, phone number, and e- mail address of the supplier. Each qualification submittal shall include a Qualification Submittal Form (see Section 3) completely filled in and signed by a duly authorized representative of the supplier.

The Qualification Submittal must be received by: **2 PM, December 6th, 2021.**

The e-mail address provided in the body of the email or transmittal letter will be used for notification of evaluation results.

1.2 PREPARATION OF SUBMITTAL

Each qualification submittal shall be assembled in one document with a Title Page, Table of Contents, and Sections. The submittal information shall be presented in the order requested under Section 3, Submittal Information. One (1) digital (PDF) of the Qualification Submittal shall be delivered via email and three (3) hardcopies shall be delivered via mail.

1.3 WITHDRAWAL OF SUBMITTAL

A Qualification Submittal may be withdrawn by emailed notice to the City Engineer and City of Chetek via the email addresses listed above.

1.4 LATE SUBMITTAL

Qualification Submittals received after the scheduled receipt date and time will not be considered and will be returned to the supplier unopened.

1.5 PROJECT INFORMATION

City of Chetek operates a wastewater treatment plant (WWTP) in Barron County, Wisconsin. The WWTP's current total phosphorus (TP) monthly average effluent limit is 1.0 mg/L. By April of 2025, the City of Chetek's six-month average effluent limit will be 0.075 mg/L.

The plant serves domestic, commercial, and industrial wastewater customers. The existing WWTP has been well maintained and currently meets all Wisconsin Department of Natural Resources (WDNR) effluent limits; however, several components of the treatment system are beyond their useful life. Even though current effluent limits are being met, the current treatment capabilities at the WWTP will not be able to accommodate any future community growth or meet the new phosphorus limit without tertiary treatment or by utilizing another acceptable alternative to meet the phosphorus requirement. The recommended alternative is for the City to construct a new WWTP in a new location and implement new treatment processes to meet the new WDNR effluent limits

The new WWTP process will consist of the following treatment regimen:

- Primary filtration with fine screening followed by a main lift station, which will pump screened wastewater from the existing WWTP to the new WWTP.
- The main lift station will pump all wastewater to grit removal process for additional removal of solids.
- Wastewater will then flow by gravity to the secondary treatment process that consists of an Enhanced Biological Phosphorus Removal (EBPR) activated sludge process with a sequencing batch reactor (SBR). Chemical coagulant may also be dosed into the activated sludge process to ensure phosphorus benchmarks are met for downstream processes.
- Treated wastewater decanted from the SBR will flow by gravity into an equalization and reaeration tank before being pumped to an ultraviolet (UV) disinfection basin.
- Disinfected water will then flow by gravity to a continuous backwash sand filter (CBSF) process to remove phosphorus before discharge to the Chetek River.
- Biosolids wasted from the SBR will be pumped to an aerobic digester, then will be processed and stored in reed beds, which will be located on site.

The intended project schedule is summarized as follows:

| Milestone | Date |
|-------------------------|------------|
| Project Bid | July 2022 |
| Construction Completion | March 2024 |
| Achieve Compliance | March 2025 |

Please note that this project must follow USDA American Iron and Steel (AIS) requirements and applicable equipment will be required to follow AIS requirements.

1.6 INTERPRETATION OF INFORMATION

Supplier may submit questions or requests for information to Tia McCarthy at CBS Squared, Inc. (414-882-0083) (tmccarthy@cbssquaredinc.com). Requests must be received by December 1st, 2021. Any interpretation or correction of this Pre-Selection Document will be made only by a written addendum. Each addendum will be posted on the on the City of Chetek’s website at <https://www.cityofchetek-wi.gov/> as well as via the QuestCDN website. It is the responsibility of the supplier to frequently check the website for new addenda. The City will not be responsible for any other explanations or interpretations of this Pre-Selection Document.

1.7 DETERMINATION

The City will pre-select a single supplier based on the responses to the information requested in Section 3. The City shall be the sole judge in grading each supplier and determining the ideal supplier to provide equipment for this project and the City's decision shall be final.

The anticipated schedule for supplier pre-selection determination is provided in the Notice to Equipment Suppliers/Manufacturers.

In spite of any determination by the City regarding the pre-selection of a supplier for the purposes of supplying the CBSF System for the New WWTP Project, the actual equipment supplied for the work must be supplied in full conformance with all of the requirements of the actual contract documents issued for the work. The purpose of this pre-selection request is to establish a single supplier to move through detailed process design with and to have listed in the contract documents.

Pre-Selection does not relieve the suppliers of meeting the Contract Documents requirements at the time of bidding and does not represent approval of the supplier's standard products or those provided at the time of pre-selection.

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SECTION 2

SCOPE OF SELECTION

2.1 INTENT

The selection procedure will be used to determine the most responsible qualified supplier that will be collaborated with during design and listed in the construction contract specifications for the CBSF System equipment. Selection will be evaluated based on the following criteria:

- CBSF System Installation Experience (20 points)
- CBSF System Equipment Design (30 Points)
- CBSF System Performance Testing, Warranty, and Maintenance Coverage (25 points)
- CBSF System Cost Quotation (25 Points)

It is intended that a supplier of the CBSF equipment described using the information submitted in response to this request, will be pre-selected to provide the CBSF System equipment for the new WWTP Project. The submission must be made by the CBSF equipment supplier. No product representative or related sales and marketing firm will be pre-selected, and any submission made by such a firm will not be considered for pre-selection.

Controls and instrumentation are to be selected by the supplier based on the design parameters for the CBSF System. The combination of all components of the WWTP must integrate and operate together to meet the performance standards. All control and communication equipment and instrumentation must have the capability to interface with a standard PLC-based control system for monitoring performance. There must be sufficient instrumentation and control built into system and included in the quote to monitor and automate operation of the CBSF System.

2.2 PRODUCTION CAPACITY AND EXPERIENCE REQUIREMENT

The pre-selection procedure involves the review and evaluation of information regarding the capacity and proven experience of the supplier to manage, design, and supply the subject equipment in a manner acceptable to the City. The experience of the supplier will be evaluated on the basis of the Qualification Submittal and from information gathered by the City from the references of related projects.

Proven experience is defined as the actual performance of the equipment provided on previous projects of a similar nature (see Requirements for Qualification Submittal) as corroborated by said references.

The City is not obligated to select a supplier that does not provide complete information demonstrating the experience requirements of this request.

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SECTION 3

SUBMITTAL INFORMATION

3.1 GENERAL

The Qualification Submittal prepared and delivered by prospective CBSF System suppliers shall include as a minimum the information listed herein. Each supplier shall review the requirements of this Request for Qualification document and provide whatever additional information may be required to allow complete determination of conformance with the evaluation criteria utilized for the Basis of Determination. Incomplete or unclear information may be grounds for rejection of a submittal as nonresponsive.

3.2 CONTENTS

The qualification submittal information shall, at a minimum, include the following:

QUALIFICATION SUBMITTAL FORM—fully completed, signed, and dated using the form that follows this page.

INFORMATION—all required descriptive and technical information required to provide complete responses to the requested information for Section 3.

QUALIFICATION SUBMITTAL FORM

TO: Tia McCarthy (tmccarthy@cbssquaredinc.com)

CC: Dan Knapp (dknapp@cityofchetek-wi.gov)

FOR: QUALIFICATION DOCUMENT FOR CBSF SYSTEM SUPPLIERS

THE UNDERSIGNED SUPPLIER HEREBY AGREES AND DECLARES THAT:

DETERMINATION OF PRE-SELECTION

Electronic receipt of this submittal by City Engineers and City of Chetek does not constitute either a direct or implied guarantee to the supplier that pre-selection is or will be granted. The undersigned agrees to the procedures and conditions of the pre-selection requirements described in this Qualification Document.

COMPLETENESS AND ACCURACY

All supplier statements and information contained in the Qualification Document shall be complete and accurate. The submittal contains no false or deliberately misleading information.

SIGNATURES

- A. The undersigned is a legally authorized representative of the Supplier.

Legal name of Supplier:

Contact:

Phone:

Business address:

E-Mail Address:

- B. Addenda:

The undersigned acknowledges receipt of the following Addenda Nos.: _____

By:

Signature:

Clearly printed name:

Position:

- END OF FORM -

REQUIREMENTS FOR QUALIFICATION SUBMITTAL

1. CBSF System Installation Experience (20 points):
 - a. Provide a reference list of 5 projects performed within the last 10 years. Preference will be given to projects listed within a 300-mile proximity to the City of Chetek and shall be included on the reference list. Provide location, treatment capacity, CBSF efficiency, details on the CBSF equipment installed and notable similarities to this project.

2. CBSF System Equipment Design (30 Points):
 - a. Provide a complete and clear set of documents (designs, P&IDs, cut sheets, specifications, or other) demonstrating that the supplier has the ability to provide a CBSF System that will meet the following design parameters:
 - i. All components of the CBSF System will be located in concrete tanks, by others, or within prefabricated tanks, by Supplier. Wastewater will flow by gravity from the UV disinfection process to the CBSF System.
 - ii. The CBSF system shall be capable of continuously treating wastewater
 - iii. Size requirements to accommodate the CBSF System design to be included by Supplier in general layout drawing.
 - iv. Plant Design Flow and Loadings:
 1. Projected 2041 Plant Influent Flows:

| | |
|-------------------------|-----------|
| Average Daily Base Flow | 0.347 MGD |
| Maximum Monthly Flow | 0.688 MGD |
| Maximum Weekly Flow | 0.773 MGD |
| Maximum Daily Flow | 0.880 MGD |
| PHWW Flow | 1.042 MGD |

2. Projected 2041 Plant Influent Loadings:

| | |
|---------------------------------|--------------|
| Average Design BOD ₅ | 595 lbs/day |
| Peak Month BOD ₅ | 1097 lbs/day |
| Peak Day BOD ₅ | 1874 lbs/day |
| Average Design TSS | 736 lbs/day |
| Peak Month TSS | 1421 lbs/day |
| Peak Day TSS | 2497 lbs/day |
| Average Design TKN | 84 lbs/day |
| Average Design Phosphorus | 13 lbs/day |

- v. CBSF System Influent Loading Parameters:
 1. Influent Design Temperature: 8°C
 2. Influent TP Concentration: 0.5 mg/L TP
 3. TSS < 30 mg/L

4. BOD₅ < 30mg/L

vi. CBSF System Effluent Loading Parameters:

1. Total Phosphorus: < 0.075 mg/L
2. TSS < 30 mg/L
3. BOD₅ < 30mg/L

vii. CBSF System Design

1. The CBSF System is to be designed for Maximum Daily Flow at the design temperature. The CBSF System must be capable of treating wastewater at the design conditions with one filter unit out of service.
 2. The CBSF system must be capable of completely draining each filter for maintenance. Provide specific drainage requirements for the system.
 3. Supplier shall provide information of the supplied chemical addition system and associated tankage.
 4. Include the following details in RFQ Response:
 - a. Volume and footprint of CBSF tanks
 - b. Maximum and minimum headloss through CBSF System at design conditions
 - c. Maximum and minimum backwash flow rate
 - d. Total filtration area
 - e. P&ID
 - f. Air lift requirements, average daily air usage, and compressor horsepower size requirements
 - g. Chemical dosing requirements and average daily chemical usage
 5. CBSF system requirements and ancillary information:
 - a. The CBSF System shall be inclusive of airlifts and feed assemblies for each of the individual filter units, a pneumatic system with duty and standby compressors, a chemical feed system with duty and standby pumps, sand media, and other instrumentation and appurtenances directly related to the CBSF system.
 - i. All steel pipe, supports, and equipment in contact with wastewater shall be 316 Stainless Steel
 - b. Provide a list of equipment that is not provided by the manufacturer but that is required for successful operation of the CBSF System.
 - c. Describe detailed operating and controls parameters of CBSF System.
3. CBSF System Performance Testing, Warranty and Maintenance Coverage (25 points):

- a. Provide a written statement demonstrating that the supplier has experienced and available personnel to fully manage the performance testing required for the startup of the CBSF System.
 - b. A written statement demonstrating that the supplier will be responsible for all analytical and costs associated with the start-up and/or troubleshooting of the CBSF System (not including analytical testing required by the WDNR).
 - c. Describe the duration and coverage of the standard equipment warranty period and performance guarantee.
 - d. Describe the location and capabilities of the personnel that will be used to service the equipment. The supplier shall demonstrate that they have suitable qualified personnel to fully support and service the equipment for the commissioning period, the warranty period, and long-term operation.
4. CBSF System Cost Quotation (25 Points):
- a. Detailed breakdown showing the cost associated with each component included in the CBSF System.
 - b. Breakdown of items excluded from the quotation that will need to be supplied by others.
 - c. Breakdown showing the cost associated with each major aspect of implementing a CBSF System including design, equipment, freight to job site, and startup costs.
 - d. Breakdown of equipment lead times.
 - e. Provide maintenance, parts, and equipment replacement schedules for a 20-year period. A life cycle analysis will be completed by Owner/Engineer as part of the cost evaluation.