



Metropolitan Water Reclamation District of Greater Chicago

100 East Erie Street
Chicago, IL 60611

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Title: Authority to advertise Contract 18-277-3M Digester Sludge Heating System Upgrades and Boiler Removal, Calumet Water Reclamation Plant, estimated cost between \$27,075,000.00 and \$32,775,000.00, Account 401-50000-645750, Requisition 1524789

Sponsors:

Indexes:

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Attachments: 1. 18-277-3M Project Fact Sheet Data.pdf

Date	Ver.	Action By	Action	Result
8/8/2019	1	Board of Commissioners	Approved	Pass

TRANSMITTAL LETTER FOR BOARD MEETING OF AUGUST 8, 2019

COMMITTEE ON PROCUREMENT

Mr. Brian A. Perkovich, Executive Director

Authority to advertise Contract 18-277-3M Digester Sludge Heating System Upgrades and Boiler Removal, Calumet Water Reclamation Plant, estimated cost between \$27,075,000.00 and \$32,775,000.00, Account 401-50000-645750, Requisition 1524789

Dear Sir:

Contract documents and specifications have been prepared for Contract 18-277-3M Digester Sludge Heating System Upgrades and Boiler Removal, Calumet Water Reclamation Plant.

The purpose of this contract is to replace the existing hot water boiler systems with steam-to-hot water heat exchanger systems for sludge and space heating in the Digester Complex and provide digester tank cleaning and coating of underside covers.

The project consists of the following:

1. Removal of six boilers, associated digester gas, natural gas, hot water supply and return piping, make-up water system, hot water circulation pumps, electrical power and controls.
2. Removal of digester gas dryers, gas dryer boosters, associated piping, electrical power and controls related to the boilers.
3. Removal of gas compressors and associated piping, electrical power and control related to gas mixing tubes.
4. Removal of old and abandoned digester gas flares located east of Cluster 1.
5. Repair of existing control system for all four flares.
6. Modification of the Sludge Control Building for de-classification, including modification of AHUs and other equipment.

7. Installation of six steam-to-hot water converters and associated hot water piping, hot water circulation pumps, electrical power and controls in Clusters 1, 2 and 3.
8. Installation of high pressure steam piping from the existing overhead steam main to the steam-to-hot water converters.
9. Installation of high pressure condensate return piping from the steam-to-hot water converters in Clusters 1, 2 and 3 to the existing deaerator in the Central Boiler Facility.
10. Replacement of all 12 sludge heat exchangers in Clusters 1, 2 and 3.
11. Converting the old Digester Gas Compressor Building to a Digester Electrical Building.
12. Digester tanks cleaning of 11 tanks. Digester Tank 7 does not require cleaning.
13. Replacement of internal digester gas draw-off piping and gas mixing piping, sandblasting and coating underside of covers for all 12 tanks.
14. Providing 3D modeling and coordination drawings of the work areas.

It is estimated that 287 jobs will be created or saved as a result of award of this contract with an estimated 66,107 man-hours of skilled trades utilized.

The estimated cost for this contract is between \$27,075,000.00 and \$32,775,000.00. The cost range will be stated in the advertisement for bids.

The bid deposit for this contract is \$600,000.00.

The contract specifications require that all work commence 30 days after approval of the contractor's bond and shall be completed within 1,100 calendar days after approval of the contractor's bond. Liquidated damages are \$1,000.00 for each calendar day that the contractor is in default of the time specified for failing to achieve substantial work completion and \$200.00 for each calendar day that the contractor is in default of the time specified for completion of the entire work.

An IEPA Construction Permit is required for this project, and the application has been submitted and approved by the IEPA.

The Multi-Project Labor Agreement will be included in this contract.

The Affirmative Action Ordinance, Revised Appendix D will be included in this contract. The type of work to be performed under the contract is within the "General and Heavy Construction" category for establishing Minority-owned Business Enterprises (MBE), Women-owned Business Enterprises (WBE), Small Business Enterprises (SBE) and Veteran-owned Business Enterprises (VBE) utilization goals. The tailored MBE, WBE, SBE and VBE utilization goals for this contract are: 20 percent MBE, 9 percent WBE, 10 percent SBE and 3 percent VBE.

The tentative schedule for this contract is as follows:

Advertise	August 21, 2019
Bid Opening	October 1, 2019
Award	November 7, 2019
Completion	November 12, 2022

Funds are available in Account 401-50000-645750.

In view of the foregoing, it is recommended that the Director of Procurement and Materials Management be authorized to advertise Contract 18-277-3M.

Requested, Catherine A. O'Connor, Director of Engineering, ECB:LMK
Recommended, Darlene A. LoCascio, Director of Procurement and Materials Management
Respectfully Submitted, Barbara J. McGowan, Chairman Committee on Procurement

Disposition of this agenda item will be documented in the official Regular Board Meeting Minutes of the Board of Commissioners for August 8, 2019

Attachment