

DEPARTMENTAL INPUT
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION

To: Gary T. Hartfield, Division Director Internal Services Department
Small Business Development Division

From: Issac Smith, Chief
Construction Contract Division.

Department: Miami-Dade Water and Sewer Department

Contract Title: HIALEAH WATER TREATMENT PLANT CHEMICAL BUILDING LIME
SLAKERS AND STRUCTURAL REHABILITATION RPQ P0225

Contract No.: MCC-7360 Program

Estimate Amount: \$ [\$2,949,200 Construction + \$294,920.00 (10%) Contingency]


Account Funds: WASD Funds.

RECOMMENDATION
CSBE Goal – 0% (No Availability) No Goal.

Analysis for Recommendation

Item	Description	Estimated Cost	% of Item to Base Bid	CSBE Availability
1.	Furnish and install a new lime slaker system	\$1,233,200.00	42%	
2.	Chemical Building Structural Rehabilitation	\$1,716,000.00	58%	
	Sub Total	\$2,949,200.00		
	Contingency	\$ 294,920.00	10%	
	TOTAL	\$ 3,244,120.00	100%	

Department Head or Authorized Agent.



Project Description: This project generally consists of 1) the complete structural rehabilitation of the Chemical House structure, 3) removal and disposition of existing structural shoring, and 3) furnishing and installing two new paste-type lime slaker equipment to replace the existing lime slakers, including the addition, replacement or modification of all related electrical equipment and instrumentation required for the new lime slakers to work as intended; two mix/slurry holding tanks, four slurry pumps, concrete slab, and all other appurtenant and miscellaneous items including new canopy structure with support slab, commissioning, and all other work for a complete, functional, and satisfactory installation of the lime slakers located in the Chemical House Building at the Hialeah Water Treatment Plant in the City of Hialeah and Unincorporated Miami-Dade County, Florida, Section (18), Township 53 S, Range 41 E.

Construction Trades: General Building Contractor, General Engineering, Plant Construction,
Sub-Contract: Electrical Contractor, Asbestos.

This project was previously advertised under the MCC7040 program RPQ T2520 and no bids were received.

MINIMUM CONSTRUCTION EXPERIENCE OF THE CONTRACTOR:

CONTRACTOR QUALIFICATIONS:

- A. The Bidder must provide as part of their references a minimum of two (2) similar projects completed by the firm within the last seven (7) years. Each project must be under a different contract. The Bidder must also state their proposed project manager by name and list a minimum of one (1) similar project managed by him/her with references along with his/her resume.
- B. Similar projects are hereby defined as projects pertaining to concrete structural work experience within either; a Water Treatment Plants, and/or Wastewater Treatment Plants. The intent is to have the Bidder with knowledge on Plant operations for this project's concrete construction and project startup requirements. Only Bidders including their project manager with the capabilities and experience on similar projects as defined will be considered qualified for bid consideration.
- C. Qualifications' eligibility determination is at the sole discretion of the Department or the Engineer. The successful Bidder cannot replace their project manager without providing a suitable replacement which is determined under the sole discretion of the Department.
- D. Sub-contractor may be used to qualify for Contractor Qualifications except as noted above. However, the Contractor's qualifications will be given more consideration than the firm who may solely or in part use their proposed sub-contractor for qualification and evaluation purposes. Refer to subpart C above.
- E. The Bidder must submit current Florida licenses for the work contemplated.
- F. The Bidder must provide all the above as part of their Bid submittal package.

Date: April 30, 2019

To: Gary T. Hartfield, Division Director
Internal Services Department
Small Business Development Division

From: William Diaz
Contract Compliance Specialist II
Miami Dade Water & Sewer

Subject: HIALEAH WATER TREATMENT PLANT CHEMICAL BUILDING LIME SLAKERS
AND STRUCTURAL REHABILITATION , RPQ P0225

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Construction Trades: General Building Contractor, General Engineering, Plant Construction, Sub-Contract: Electrical Contractor, Asbestos.

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C. Qualifications' eligibility determination is at the sole discretion of the Department or the Engineer. The successful Bidder cannot replace their project manager without providing a suitable replacement which is determined under the sole discretion of the Department.

D. Sub-contractor may be used to qualify for Contractor Qualifications except as noted above. However, the Contractor's qualifications will be given more consideration than the firm who may solely or in part use their proposed sub-contractor for qualification and evaluation purposes. Refer to subpart C above.

E. The Bidder must submit current Florida licenses for the work contemplated.

F. The Bidder must provide all the above as part of their Bid submittal package.

CSBE Goal – 0% (No Availability) No Goal.

If you require any additional information, please contact:

William Diaz
Contracts Compliance Specialist 2
Miami-Dade Water & Sewer Department
3071 SW 38 Ave, Suite 107-14, Miami, FL 33146
(786) 552-8084 (Phone) (786) 552-8613 (Fax).

Cc: Isaac Smith.

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Description</u>	<u>Total</u>
W-1.	Aggregate Sum (Divided into 4 payments) See Measurement and Payment	For performing preparatory work and operations in mobilizing for beginning the work of the Project, but excluding materials and permit costs, both of which are paid under other payment items, the aggregate lump sum of _____ 120,000 _____ Dollars and _____ 00 _____ Cents	\$ <u>120,000.00</u>

Lime Slaker System Replacement

Below payment items are to furnish and install a new lime slaker system as specified in Section 01120, Sequence of Construction.

W-2.	2 Each	For furnishing and delivering to the Department new (IMS) Wallace & Tiernan 4,000 lb/hr paste-type lime slakers (Model A-758) including spare parts, in accordance with Section 11300, PASTE-TYPE LIME SLAKING SYSTEMS. _____ 420,000 _____ Dollars and 00 _____ Cents (\$ _____ 210,000/EA)	\$ <u>420,000.00</u>
W-3.	2 Each	For removal and disposal of existing paste-type lime slakers, including all associated appurtenances at the location indicated on the Drawings, as specified. _____ 90,000 _____ Dollars and 00 _____ Cents (\$ _____ 45,000.00/EA)	\$ <u>90,000.00</u>
W-4.	2 Each	For installing new (IMS) Wallace & Tiernan 4,000 lb/hr paste-type lime slakers (Model A-758) and lime slaker appurtenances at the location indicated on the Drawings, and as specified. _____ 175,000 _____ Dollars and 00 _____ Cents (\$ _____ 87,500.00/EA)	\$ <u>175,000.00</u>

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Description</u>	<u>Total</u>
W-5.	Aggregate Sum	For the furnishing and installing of all electrical associated with the installation of the new lime slaker equipment, inclusive of labor, equipment, and materials required for the removal/demolition of existing electrical and to provide power to all newly installed equipment under this Contract in accordance with the requirements of Division 16, the Aggregate Sum of: _____ 80,000 _____ Dollars and 00 _____ Cents	\$ _____ 80,000.00
W-6.	Aggregate Sum	For the demolition and removal of existing storage shed inclusive of steps, foundations, pavement and disconnection of utilities at the location shown on the plans including all labor, tools, materials, equipment, transportation, charges, fees and other fees necessary to complete the work. This item includes all other modifications required to accommodate the removal and installation of other equipment. _____ 25,000 _____ Dollars and 00 _____ Cents	\$ _____ 25,000.00
W-7.	Aggregate Sum	For furnishing and construction of a concrete secondary containment slab including concrete base supports for the lime slurry pumps and tanks with dimensions and design as specified in the drawings, the Aggregate Sum of: _____ 12,000 _____ Dollars and 00 _____ Cents	\$ _____ 12,000.00
W-8.	Aggregate Sum	For furnishing and installing an awning covering and supporting structures for the new concrete secondary containment slab as detailed in the drawings including all materials labor, tools and equipment necessary for a complete installation, the Aggregate Sum of: _____ 27,000 _____ Dollars and 00 _____ Cents	\$ _____ 27,000.00

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Description</u>	<u>Total</u>
W-9.	Aggregate Sum	For furnishing and installing, providing all labor, equipment and materials required, two new 2,500 gallon stainless steel lime slurry tanks with dimensions and design as specified in the drawings, including bridge supports for mounted equipment, appurtenances and piping necessary for the provision of make-up water to the tanks, the Aggregate Sum of: <u>80,000</u> Dollars and <u>00</u> Cents	\$ <u>80,000.00</u>
W-10.	2 Each	For furnishing and installing two new mechanical mixers, as specified in the Contract documents, the cost each of: <u>6,000</u> Dollars and <u>00</u> Cents (\$ <u>3,000.00/EA</u>)	\$ <u>6,000.00</u>
W-11.	4 Pumps	For furnishing and installing four (4) 5-HP Goulds pumps (Model 3196 Size: 3x4-8G), or equal, complete with motors and other pump appurtenances including all labor, materials and equipment necessary, as specified, the cost each of: <u>12,000</u> Dollars and <u>00</u> Cents (\$ <u>3,000.00/EA</u>)	\$ <u>12,000.00</u>
W-12.	500 Linear Feet	For furnishing all materials, labor tools and equipment for the complete installation of flexible hoses, fittings and supports including required wall penetrations per drawings, the cost per Linear Foot of: <u>55,000</u> Dollars and <u>00</u> Cents (\$ <u>110.00/LF</u>)	\$ <u>55,000.00</u>

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Description</u>	<u>Total</u>
W-13.	14 Each	For furnishing and installing Pinch Valves at the sizes and locations indicated in the drawings as specified, the cost per valve of: _____ 8,400 _____ Dollars and 00 _____ Cents (\$ _____ 600.00/EA)	\$ _____ 8,400.00
W-14.	2 Each	For furnishing and installing Valves with Solenoids as indicated in the drawings as specified, the cost each of: _____ 2,000 _____ Dollars and 00 _____ Cents (\$ _____ 1,000.00/EA)	\$ _____ 2,000.00
W-15.	2 Each	For furnishing and installing Modulating Control Ball Valves at the locations indicated in the drawings as specified, the cost each of: _____ 10,000 _____ Dollars and 00 _____ Cents (\$ _____ 5,000.00/EA)	\$ _____ 10,000.00
W-16.	2 Each	For furnishing and installing Ball Valves at the locations indicated in the plans as specified, the cost each of: _____ 2,800 _____ Dollars and 00 _____ Cents (\$ _____ 1,400.00/EA)	\$ _____ 2,800.00
W-17.	2 Each	For furnishing and installing Flow Meters at the locations as indicated in the drawings as specified, the cost per flow meter of: _____ 10,000.00 _____ Dollars and 00 _____ Cents (\$ _____ 5,000.00/EA)	\$ _____ 10,000.00

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Description</u>	<u>Total</u>
W-18.	2 Each	For furnishing and installing Rotameters at the locations as indicated in the drawings as specified, the cost per rotameter of: _____ 3,000 _____ Dollars and 00 _____ Cents (\$ _____ 1,500.00/EA)	\$ _____ 3,000.00
W-19.	Aggregate Sum	For furnishing and installing level control instrumentation as shown in the drawings, as specified and including conduit and wiring of control and status signals to the SCADA equipment, the Aggregate Sum of: _____ 15,000 _____ Dollars and 00 _____ Cents	\$ _____ 15,000.00
W-20.	Aggregate Sum	For testing and start-up support of all installed equipment including all labor, materials and equipment necessary for successful demonstration of a complete integrated, working system prior to being put into service, the Aggregate Sum of: _____ 25,000 _____ Dollars and 00 _____ Cents	\$ _____ 25,000.00
W-21.	Aggregate Sum	For selling and delivering to the Department all other necessary materials, equipment, and supplies for the Lime Slakers Replacement work, excluding that furnished and installed under Bid Items 2 through 20, the Aggregate Sum of: _____ 15,000 _____ Dollars and 00 _____ Cents	\$ _____ 15,000.00

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Description</u>	<u>Total</u>
W-22.	Aggregate Sum	For all other costs incurred in completing the Lime Slakers Replacement Project, including installation of all materials, equipment and supplies furnished under Bid Item W-21 excluding installation of materials, equipment and supplies furnished under Bid Items W-2 through W-20, and all other labor, testing, final clean-up and site restoration for a complete project, the Aggregate Sum of: _____ 15,000 _____ Dollars and 00 _____ Cents	\$ _____ 15,000.00
W-23.	Aggregate Sum	For providing a systems integrator to ensure that all equipment communicates properly, smoothly, and efficiently with other systems, the Aggregate Sum of: _____ 25,000 _____ Dollars and 00 _____ Cents	\$ _____ 25,000.00
W-24.	SUBTOTAL	Sum of Bid Items W-1 through W-23	\$ _____ 1,233,200.00

Chemical Building Structural Rehabilitation

The following payment items are to provide long-term structural repairs to the existing Chemical Building with a goal of bringing the structure in compliance with the latest Florida Building Code requirements as specified in Section 01120, Sequence of Construction.

W-25.	600 Square Feet	For furnishing all material, labor, tools and equipment for partial depth repairs on concrete slabs up to 4" deep into the slab. These repairs shall not punch through entire slab thickness. Areas included are from ground level to roof level: _____ 120,000 _____ Dollars and 00 _____ Cents (\$ _____ 200.00/SF)	\$ _____ 120,000.00
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<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Description</u>	<u>Total</u>
W-26.	200 Square Feet	For furnishing all material, labor, tools and equipment for full depth repairs of spalled concrete from ground level to roof. These repairs go beyond partial depth; they completely remove the entire thickness of the slab:	
		_____ 180,000 _____ Dollars and	
		00 _____ Cents (\$ _____ 900.00/SF)	\$ _____ 180,000.00
W-27.	85 Square Feet	For furnishing all material, labor, tools and equipment for overhead (ceiling) repair of partial depth concrete at the underside of elevated slabs from the ground level to second floor:	
		_____ 120,000 _____ Dollars and	
		00 _____ Cents (\$ _____ 1,411.76/SF)	\$ _____ 120,000.00
W-28.	150 Square Feet	For furnishing all material, labor, tools and equipment for the repair of spalled and delaminated concrete column surfaces throughout the Chemical Building from ground level to roof, as well as the adjacent equipment room and others:	
		_____ 180,000 _____ Dollars and	
		00 _____ Cents (\$ _____ 1,200.00/SF)	\$ _____ 180,000.00
W-29.	150 Square Feet	For furnishing all material, labor, tools and equipment for the repair of spalled and delaminated concrete beam surfaces throughout the Chemical Building from ground level to roof, as well as the adjacent equipment room and others:	
		_____ 180,000 _____ Dollars and	
		00 _____ Cents (\$ _____ 1,200.00/SF)	\$ _____ 180,000.00
W-30.	80 Square Feet	For furnishing all material, labor, tools and equipment for overhead (ceiling) repair of partial depth concrete at the underside of elevated slabs from the ground level to second floor:	
		_____ 50,000 _____ Dollars and	
		00 _____ Cents (\$ _____ 625.00/SF)	\$ _____ 50,000.00

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Description</u>	<u>Total</u>
W-31.	250 Cubic Feet	For furnishing all material, labor, tools and equipment for miscellaneous spalled concrete repairs from ground level to the roof of the Chemical Building and adjacent connected building (see plans): _____ 190,000 _____ Dollars and 00 _____ Cents (\$ _____ 760.00/CF)	\$ _____ 190,000.00
W-32.	60 Each	For furnishing all material, labor, tools and equipment for repair of corroded bar tips and rebar burning spots throughout the interior of the Chemical Building and adjacent building (see plans): _____ 40,000 _____ Dollars and 00 _____ Cents (\$ _____ 666.67/EA)	\$ _____ 40,000.00
W-33.	35 Linear Feet	For furnishing all material, labor, tools and equipment for the repair of cracks by pressure expoxy injection in accordance to details at locations pointed out by the Engineer in the field from top or bottom of the slabs, columns, beams, walls of the Chemical Building and adjacent building (see plans): _____ 30,000 _____ Dollars and 00 _____ Cents (\$ _____ 857.14/LF)	\$ _____ 30,000.00
W-34.	20 Linear Feet	For furnishing all material, labor, tools and equipment to sawcut, V-rout and seal cracks by gravity fed epoxy on top of slab locations from ground level to roof: _____ 17,000 _____ Dollars and 00 _____ Cents (\$ _____ 850.00/LF)	\$ _____ 17,000.00
W-35.	80 Linear Feet	For furnishing all material, labor, tools and equipment to remove and replace with new, all corroded steel columns at ground level: _____ 25,000 _____ Dollars and 00 _____ Cents (\$ _____ 312.50/LF)	\$ _____ 25,000.00

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Description</u>	<u>Total</u>
W-36.	Aggregate Sum	For furnishing all material, labor, tools and equipment to sandblast and paint with anti-rust paint, all steel columns from the second floor level to the roof, the Aggregate Sum of: _____ 80,000 _____ Dollars and 00 _____ Cents	\$ _____ 80,000.00
W-37.	250 Square Feet	For furnishing all material, labor, tools and equipment for miscellaneous delaminated and loose stucco repairs on both the interior and exterior of the building: _____ 45,000 _____ Dollars and 00 _____ Cents (\$ _____ 180.00/SF)	\$ _____ 45,000.00
W-38.	Aggregate Sum	For furnishing all material, labor, tools and equipment for the repair of all interior wall covering from the ground level to the roof, the Aggregate Sum of: _____ 120,000 _____ Dollars and 00 _____ Cents	\$ _____ 120,000.00
W-39.	45 Square Feet	For furnishing all material, labor, tools and equipment for the removal of stucco fascia soffits at the interior of the buildings (see repair details): _____ 30,000 _____ Dollars and 00 _____ Cents (\$ _____ 666.67/SF)	\$ _____ 30,000.00
W-40.	Aggregate Sum	For furnishing all material, labor, tools and equipment for the painting of the exterior of the buildings, including pressure cleaning and proper surface preparation, the Aggregate Sum of: _____ 80,000 _____ Dollars and 00 _____ Cents	\$ _____ 80,000.00

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Description</u>	<u>Total</u>
W-41.	Aggregate Sum	For furnishing all material, labor, tools and equipment for the painting of the interior of the buildings, including pressure cleaning and proper surface preparation, the Aggregate Sum of: _____ 100,000 _____ Dollars and 00 _____ Cents	\$ _____ 100,000.00
W-42.	Aggregate Sum	For furnishing all material, labor, tools and equipment for the floor coating, including pressure cleaning and proper surface preparation, the Aggregate Sum of: _____ 25,000 _____ Dollars and 00 _____ Cents	\$ _____ 25,000.00
W-43.	200 Linear Feet	For furnishing all material, labor, tools and equipment for the removal and disposal of existing exposed electrical conduit 2 inch and less, that is no longer in use, including all associated appurtenances at the location as necessary and determined for repair of the structure: _____ 4,000 _____ Dollars and 00 _____ Cents (\$ _____ 20.00/LF)	\$ _____ 4,000.00
W-44.	150 Linear Feet	For furnishing all material, labor, tools and equipment for relocating conduits and conductors, testing and re-energizing between the junction box and panel A on the first floor, at the location as specified in the drawings and shown in photo No. 106 and determined in coordination with the repair Contractor, the cost of: _____ 15,000 _____ Dollars and 00 _____ Cents (\$ _____ 100.00/LF)	\$ _____ 15,000.00

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Description</u>	<u>Total</u>
W-45.	Aggregate Sum	For furnishing all material, labor, tools and equipment for installing 1-inch electrical conduit with three (3) #10 conductors and one (1) #10 ground conductor, testing and re-energizing between panel A on the first floor and conveyor equipment on the seventh floor, including core drilling of floors and all associated appurtenances for support of the conduit, as determined in coordination with the repair Contractor, the Aggregate Sum of: <u>30,000</u> Dollars and <u>00</u> Cents	\$ <u>30,000.00</u>
W-46.	500 Linear Feet	For furnishing all material, labor, tools and equipment for installing up to 1-inch electrical conduit in specific locations as directed or approved by the Engineer or Owner: <u>15,000</u> Dollars and <u>00</u> Cents (\$ <u>30.00/LF</u>)	\$ <u>15,000.00</u>
W-47.	500 Linear Feet	For furnishing all material, labor, tools and equipment for installation of conduits of between 1-inch and up to 2-inch electrical conduit in specific locations as directed or approved by the Engineer or Owner: <u>15,000</u> Dollars and <u>00</u> Cents (\$ <u>30.00/LF</u>)	\$ <u>15,000.00</u>
W-48.	Aggregate Sum	For furnishing all material, labor, tools and equipment for the removal and final disposition of all temporary shoring, the Aggregate Sum of: <u>25,000</u> Dollars and <u>00</u> Cents	\$ <u>25,000.00</u>
W-49.	SUBTOTAL	Sum of Bid Items W-25 through W-48	\$ <u>1,716,000.00</u>
W-50.	SUBTOTAL	Sum of Subtotal Items W-24 and W-49	\$ <u>2,949,200.00</u>

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Description</u>	<u>Total</u>
W-51.	Dedicated Allowance	For all cost of required permits, labor for permit applications, permit application and close out fees, impact fees, inspections, if ordered by the Engineer, the sum of 3% of the Subtotal, Item W-50, (.03) x (Subtotal, Item W-49).	
		_____ 88,476 _____ Dollars and	
		xx _____ Cents	\$ _____ 88,476.00
W-52.	Contingency Allowance	For unforeseen conditions, for minor construction changes and for quantity adjustments, if ordered by the Engineer, the sum of 10% of the Subtotal, Item W-49, (.10) x (Subtotal, Item W-50).	
		_____ 294,920 _____ Dollars and	
		xx _____ Cents	\$ _____ 294,920.00
W-53.	TOTAL BID	Sum of Bid Items W-50, W-51, and W-52.	\$ _____ 3,332,596.00

Note: For a detailed description of each Proposal Item, refer to Section 01025 of the Specifications entitled "Measurement and Payment".