

DEPARTMENTAL INPUT  
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION

To: Penelope Townsley, Director  
Department of Business Development

From: Jose Vilaboy  
Contract Compliance Spec II

Department: Miami-Dade Water and Sewer Department

Contract Title: Replacement of Refractory Bricks in the existing Kiln at Lime Plant #2

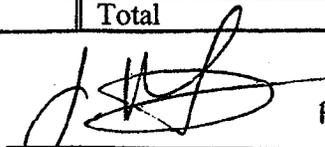
Contract No.: MCC 7360, RPQ P0079

Estimate Amount: \$320,000.00

**RECOMMENDATION  
NO GOAL**

Analysis for Recommendation

Item	Description	Estimated Cost	% of Item to Base Bid	CSBE Availability
1.	The Project consist of furnishing all labor, equipment and materials (except as specifically stated to be furnished by the Department) to replace refractory brick in the existing kiln at Lime Plant #2 from the discharge end to the transition zone. The work also includes, but not limited to removal of approximately 136 cubic yard of lime buildup from kiln; removal of 220-Feet of brick and castable from lime kiln; removal of existing chain system and retaining rings; removal, transport, salvage and legal disposal of lime build-up and demolition material; installing 100-Feet of 12-inch rotary kiln brick; installing 107-Feet of 9-inch rotary kiln brick; installing 42-Feet of 6-inch rotary kiln brick; installing new anchors in the grizzly area at the nose of the kiln; installing retaining rings, specialized mortar and anchors; site clean-up and other appurtenant and miscellaneous items and work for a complete, satisfactory and functional installation of the refractory brick.	\$320,000.0	100	
	<b>10% Contingency</b>	<b>\$32,000.00</b>		
	<b>Total</b>	<b>\$352,000.00</b>		

  
 For Leonard Vargas  
 Administrative Officer III

**SPECIFICATIONS  
FOR  
REPLACEMENT REFRACTORY BRICK  
IN THE EXISTING KILN AT LIME PLANT #2**

**1.00 SCOPE**

The Project consist of furnishing all labor, equipment and materials (except as specifically stated to be furnished by the Department) to replace refractory brick in the existing kiln at Lime Plant #2 from the discharge end to the transition zone. The work also includes, but not limited to removal of approximately 136 cubic yard of lime buildup from kiln; removal of 220-Feet of brick and castable from lime kiln; removal of existing chain system and retaining rings; removal, transport, salvage and legal disposal of lime build-up and demolition material; installing 100-Feet of 12-inch rotary kiln brick; installing 107-Feet of 9-inch rotary kiln brick; installing 42-Feet of 6-inch rotary kiln brick; installing new anchors in the grizzly area at the nose of the kiln; installing retaining rings, specialized mortar and anchors; site clean-up and other appurtenant and miscellaneous items and work for a complete, satisfactory and functional installation of the refractory brick. Lime Plant # 2 is located at the Miami-Dade Water and Sewer Department's Alexander Orr Jr. Water Treatment Plant, 6800 S.W. 87<sup>th</sup> Avenue, Dade County.

**DEPARTMENT INPUT**  
**CONSTRUCTION CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

Check applicable Ordinance(s):  90-143 Responsible Wage and Benefits  03-237 (formerly 03-1) Community Workforce Program

**PROJECT INFORMATION** See attachment

Contract/Project/\*Work Order No.: **P0079**

\*Reference corresponding project number when submitting a work order

Contract/Project Title: **Replacement of Refractory Bricks in the existing Kiln at Lime Plant #2**

Description/Scope of Work: **See Attached**

Estimated Cost: **\$320,000.00** Funding Source: **General funds**

Location of Project (street address or beginning and ending points) i.e. 12345 NE 23<sup>rd</sup> Ct or Starts at 135 St. ends at 145 St.  
**6800 SW 87 AVENUE**

**PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP)** See attachment

Engineer/Department or Agency's estimated required workforce for Project  Work Order :

Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
N/A		
N/A		
N/A		

Comments: \_\_\_\_\_

**PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE)** See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
0	\$	0%	
0	\$	0%	
0	\$	0%	

**RECOMMENDATION**

Set-Aside: Level 1  Level 2  Level 3  Trade Set-Aside  Sub-Contractor Goal  Workforce Goal  No Measure

**Basis for Recommendation: This project will require a specialty Contractor with experience in rehabilitation of lime kilns. The materials used for this project are specially manufactured to be installed in an environment that can reach 2,000 degrees F. The experience requirement for this project is listed below. There are the same experience requirement used the previous time the lime kiln was rehabilitated. There are no 7040 contractors that perform the work.**

**1.01 MINIMUM EXPERIENCE REQUIREMENT**

**In order to aid the above the Contractor shall submit with his Proposal, satisfactory proof of his qualifications to begin construction promptly, to perform in a satisfactory manner and to complete all of the work covered by the Contract Documents within the time specified in the Proposal. Failure to submit this information with his bid may be cause for**

## **Vilaboy, Jose A. (WASD)**

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**From:** Vazquez, David (WASD)  
**Sent:** Thursday, March 08, 2012 11:40 AM  
**To:** Vilaboy, Jose A. (WASD)  
**Cc:** Smith, Isaac (WASD)  
**Subject:** RE: Scope of Work Lime Kiln Bricks

This project will require a specialty Contractor with experience in rehabilitation of lime kilns. The materials used for this project are specially manufactured to be installed in an environment that can reach 2,000 degrees F. The experience requirement for this project is listed below. There are the same experience requirement used the previous time the lime kiln was rehabilitated. There are no 7040 contractors that perform the work.

### **1.01 MINIMUM EXPERIENCE REQUIREMENT**

In order to aid the above the Contractor shall submit with his Proposal, satisfactory proof of his qualifications to begin construction promptly, to perform in a satisfactory manner and to complete all of the work covered by the Contract Documents within the time specified in the Proposal. Failure to submit this information with his bid may be cause for the Bidder to be non-responsive. He shall submit, among other things, detailed information identifying all personnel to be utilized on this project and evidence with respect to following minimum experience requirement:

1. Contractor performing work must have 5 years experience in the Construction and Rehabilitation on Maintenance of Lime Kilns, Cement Kilns, Paper Mill Kilns or similar industries
2. Provide at least three (3) professional references of work performed on lime kilns
3. That his primary business is as a refractory installer;
4. At least two refractory relines in rotary kilns with a minimum of 9 feet in diameter completed in the last 36 months and using dual component brick work;
5. At least two refractory castable installations in rotary kilns, completed in the last 36 months and using high tech;
6. That he has well-trained and competent refractory masons familiar with laying brick in rotary kilns;
7. That he has well trained and competent welders, certified by a testing laboratory.
8. If the Contractor is a corporation, the names of all corporate officer and the name of the executive who will give his personnel attention to the work;

**the Bidder to be non-responsive. He shall submit, among other things, detailed information identifying all personnel to be utilized on this project and evidence with respect to following minimum experience requirement:**

- 1. Contractor performing work must have 5 years experience in the Construction and Rehabilitation on Maintenance of Lime Kilns, Cement Kilns, Paper Mill Kilns or similar industries**
- 2. Provide at least three (3) professional references of work performed on lime kilns**
- 3. That his primary business is as a refractory installer;**
- 4. At least two refractory relines in rotary kilns with a minimum of 9 feet in diameter completed in the last 36 months and using dual component brick work;**
- 5. At least two refractory castable installations in rotary kilns, completed in the last 36 months and using high tech;**
- 6. That he has well-trained and competent refractory masons familiar with laying brick in rotary kilns;**
- 7. That he has well trained and competent welders, certified by a testing laboratory.**
- 8. If the Contractor is a corporation, the names of all corporate officer and the name of the executive who will give his personnel attention to the work;**

**Date submitted to DBD:03/14/2012**

**Contact Person:Jose Vilaboy, Telephone: 786-552-8056**

**Fax : 786-552-8885**

**QUOTATION FOR  
REPLACEMENT REFRACTORY BRICK  
IN THE EXISTING KILN AT LIME PLANT #2**

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>costs</u> <u>Description</u>	<u>Total</u>
1.	Aggregate Sum.	For all required material, <del>equipment and labor</del> incurred in removal, transport, salvage and legal disposal of lime buildup, brick, castable and all other waste material created by cleaning and surface preparation of the lime kiln interior for installation of the new refractory material, the aggregate sum of	
		_____ Dollars and	
		_____ Cents (\$ _____)	\$ <u>130,000</u>
2.	Aggregate Sum.	For all costs incurred in completing the installation of rotary kiln brick in the <u>Discharge Dam Section</u> , including all materials furnished by the Department; supervisory services, labor, overhead and profit and all other miscellaneous costs, the aggregate sum of	
		_____ Dollars and	
		_____ Cents (\$ _____)	\$ <u>20,000</u> <del>50,000</del>
3.	Aggregate Sum.	For all costs incurred in completing the installation of rotary kiln brick in the <u>Burning Zone</u> , including all materials furnished by the Department; supervisory services, labor, overhead and profit and all other miscellaneous costs, the aggregate sum of	
		_____ Dollars and	
		_____ Cents (\$ _____)	\$ <u>70,000</u>

**QUOTATION FOR  
REPLACEMENT REFRACTORY BRICK  
IN THE EXISTING KILN AT LIME PLANT #2**

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Description</u>	<u>Total</u>
4.	Aggregate Sum.	For all costs incurred in completing the installation of rotary kiln brick in the <u>Mid Zone</u> including all materials furnished by the Department; supervisory services, labor, overhead and profit and all other miscellaneous costs, the aggregate sum of	
		_____ Dollars and	
		_____ Cents (\$ _____)	\$ <u>70,000</u>
5.	Aggregate Sum.	For all costs incurred in completing the installation of rotary kiln brick in the <u>Transition Zone</u> , including all materials furnished by the Department; supervisory services, labor, overhead and profit and all other miscellaneous costs, the aggregate sum of	
		_____ Dollars and	
		_____ Cents (\$ _____)	\$ <u>30,000</u> <del>20,000</del>
6.	<b>Subtotal</b>	<b>The sum of Bid Item 1 through Item 5</b>	\$ <u>320,000</u> <del>315</del>
7.	Contingency Allowance Account	For unforeseen conditions, for minor construction changes, and for quality adjustments, <u>if ordered by the Engineer, the sum of 10% of Subtotal, Item 6, (.10) x (Subtotal, Item 6)</u>	
		_____ Dollars and	
		_____ Cents	\$ <u>32,000</u>

**QUOTATION FOR  
REPLACEMENT REFRACTORY BRICK  
IN THE EXISTING KILN AT LIME PLANT #2**

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>Description</u>	<u>Total</u>
8.		TOTAL BID (The Sum of Items 6 and Item 7)	\$ <u>352,000</u>

Note: For a detailed description of each Quotation Item, refer to Section 8.00 of the Specifications entitled "Measurement and Payment".

*[Signature]*  
*[Signature]* 3/8/2012