CEDAR RAPIDS
City of Five Seasons®

ADDENDUM #2

To: All Companies Interested in Submitting a Bid
From: Diane Muench, CPPB, Purchasing Agent
Bid: Magnesium Hydroxide 45% Solution, RFB #PUR1017-061
Dated: October 19, 2017
Subject: Addendum #2 (1 page)
Date: October 27, 2017

Please note the following specification changes/additions/clarifications relative to the above Request for Bid.

1) ***Question***: Why does the City of Cedar Rapids have a specification of 45% solids?
Answer: The City will accept a 45-60% solution. Vendor shall indicate on the revised Bid Pricing Submittal Form which solution percentage they are proposing.

2) ***Question***: For many years the City of Cedar Rapids used FloMag H, which is an ultra-stable, high purity, highly reactive, 60% solids product. What changed?
Answer: The City will accept a 45-60% solution. Vendor shall indicate on the revised Bid Pricing Submittal Form which solution percentage they are proposing.

3) ***Question***: You do not have a specification on purity, particle size, or reactivity. These are critical variables in measuring quality, and expected utility and consumption levels of product.
Answer: The product supplied needs to conform with the specifications presented in the bid documents. How those specifications are achieved is at the discretion of the supplier.

4) ***Question***: Does your current supplier provide a Certificate of Analysis from a certified laboratory for each delivery?
Answer: The analysis is provided in-house by the current supplier.

5) ***Question***: Does the city of Cedar Rapids give consideration to suppliers that manufacture their products in the United States, using American labor?
Answer: The City does not have this preference.

6) ***Question***: Do you require 45% solution because higher percentages will not pump well or lead to equipment issues, plugging, etc.?
Answer: The City will accept a 45-60% solution. Vendor shall indicate on the revised Bid Pricing Submittal Form which solution percentage they are proposing.

7) ***Question***: What is the maximum acceptable viscosity?
Answer: The product supplied needs to conform with the specifications presented in the bid documents. How those specifications are achieved is at the discretion of the supplier.

8) ***Question***: Has Cedar Rapids tried 58-60% slurry? Higher concentrations of precipitated magnesium hydroxide solutions mean less gallons per year total needed.
Answer: The City will accept a 45-60% solution. Vendor shall indicate on the revised Bid Pricing Submittal Form which solution percentage they are proposing.

9) ***Question***: Is 1400 tons of magnesium hydroxide solution, mentioned in paragraph 4.3, dry tons or wet tons?
Answer: Dry ton.

10) ***Question***: Can you provide the "American Water Works Association Standard for Magnesium Hydroxide"?
Answer: This is not required for this bid and is hereby removed from the specifications.

11) ***Question***: What forms of magnesium hydroxide solution are acceptable for the slurry; precipitated or hydrated?
Answer: The product supplied needs to conform with the specifications presented in the bid documents. How those specifications are achieved is at the discretion of the supplier.

12) ***Question***: Is 58-60% precipitated magnesium hydroxide slurry acceptable?
Answer: The City will accept a 45-60% solution. Vendor shall indicate on the revised Bid Pricing Submittal Form which solution percentage they are proposing.

13) ***Question***: What CMA is acceptable? CMA; Caustic Magnesia Activity is the measure of the efficiency that alkalinity/pH control is achieved.
Answer: The product supplied needs to conform with the specifications presented in the bid documents. How those specifications are achieved is at the discretion of the supplier.

14) ***Question***: What specific particle surface area is acceptable in m^2/g? This relates to how well/fast the individual particles that make up the concentration release alkalinity to adjust pH. The less surface area, the more you need to get the same effect.
Answer: The product supplied needs to conform with the specifications presented in the bid documents. How those specifications are achieved is at the discretion of the supplier.

15) ***Question***: What is the maximum total dry solids density in lb/gal? This just confirms the percent magnesium hydroxide solution required.
Answer: The product supplied needs to conform with the specifications presented in the bid documents. How those specifications are achieved is at the discretion of the supplier.

16) ***Question***: What is the minimum dry solids percentage for $Mg(OH)_2$? This again relates to how much of the magnesium hydroxide solution you need to get a desired pH/alkalinity.
Answer: The product supplied needs to conform with the specifications presented in the bid documents. How those specifications are achieved is at the discretion of the supplier.

17) ***Question***: What is the minimum dry solids percentage for CaO? This relates to how much sludge disposal is needed and the quality of the magnesium hydroxide solution.
Answer: The product supplied needs to conform with the specifications presented in the bid documents. How those specifications are achieved is at the discretion of the supplier.

18) ***Question***: What is the minimum dry solids percentage for SiO_2? This relates to how much inert, unreacted material is in the magnesium hydroxide solution; contaminants.
Answer: The product supplied needs to conform with the specifications presented in the bid documents. How those specifications are achieved is at the discretion of the supplier.

19) ***Question***: What is the minimum dry solids percentage for FeO_3? This relates to how much sludge disposal is needed and the quality of the magnesium hydroxide solution.
Answer: The product supplied needs to conform with the specifications presented in the bid documents. How those specifications are achieved is at the discretion of the supplier.

20) ***Question***: What is the maximum particle size allowable in microns? Relates to the ease of pumping and settling of the solids in the magnesium hydroxide solution.

Answer: The product supplied needs to conform with the specifications presented in the bid documents. How those specifications are achieved is at the discretion of the supplier.

21) ***Question***: What is the minimum lbs of alkalinity per gallon allowable? This again relates to how much of the magnesium hydroxide solution you need to get a desired pH/alkalinity.
Answer: The product supplied needs to conform with the specifications presented in the bid documents. How those specifications are achieved is at the discretion of the supplier.

22) ***Question***: What is the allowable percentage passing through a 325 Mesh Sieve? Relates to the ease of pumping and settling of the solids in the magnesium hydroxide solution.
Answer: The product supplied needs to conform with the specifications presented in the bid documents. How those specifications are achieved is at the discretion of the supplier.

23) ***Question***: What is the maximum Solid Settleometer Test in ml (48hrs)? Relates to the ease of pumping and settling of the solids in the magnesium hydroxide solution.
Answer: The product supplied needs to conform with the specifications presented in the bid documents. How those specifications are achieved is at the discretion of the supplier.

24) ***Question***: What is the maximum stabilized residual in grams? Relates to the ease of pumping and settling of the solids in the magnesium hydroxide solution; how well and long it takes to unload from a tanker truck.
Answer: The product supplied needs to conform with the specifications presented in the bid documents. How those specifications are achieved is at the discretion of the supplier.

25) ***Question***: What is the minimum allowable bulk density of the solution? This just confirms the percent magnesium hydroxide solution required.
Answer: The product supplied needs to conform with the specifications presented in the bid documents. How those specifications are achieved is at the discretion of the supplier.

All addenda that you receive shall become a part of the contract documents and shall be acknowledged and dated on the bottom of the Signature Page (Attachment B). The deadline for sealed bids is Thursday, November 2, 2017, before 3:00 pm CDT at the Office of the City Clerk, 101 First Street SE, Cedar Rapids, IA 52401.

REVISED BID PRICING SUBMITTAL FORM

The Contractor shall, at its sole cost and expense, provide, perform and complete in the manner described and specified in this Request for Bid all necessary work, labor, services, transportation, equipment, materials, apparatus, information, data, freight and other items necessary to accomplish the Project as defined below, in accordance with the Scope of Work as described in Section 4.0. The Work will also include procuring and furnishing all approvals and authorizations, permits, and certificates and policies of insurance as specified herein necessary to complete the Project.

Description	Price per Ton
Price per DRY ton of Magnesium Hydroxide 45-60% (FOB destination) as specified in this Request for Bid. The unit price must include all costs for supply, delivery, insurance, permits, testing and other related fees.	$
Indicate percentage of solution	

Estimated response time for delivery after receipt of order _____ calendar days

Will you hold this pricing firm for calendar year 2018 ☐ Yes ☐ No

OR

Do you require a quarterly price adjustment clause ☐ Yes ☐ No

If yes, name of index that price adjustments will be tied to _____

Name of Company: _____

Authorized Signature: _____

Date: _____