



Invitation for Quote (IFQ)
For the Supply and Delivery of Sodium Hydroxide
IFQ-18-011
ADDENDUM NO.1

Date of Addendum: March 29, 2019

Please read this Addendum very carefully and make changes in your quote as appropriate. Additionally, all prospective bidders are asked to execute and acknowledge receipt of this document by signing and dating the “**ACKNOWLEDGE RECEIPT OF ADDENDUM NO. 1**” form enclosed herein and include the executed form with your quote. **Failure to acknowledge receipt of all Addenda may result in rejection of your quote.**

NOTICE TO ALL POTENTIAL RESPONDENTS

The Invitation for Quote (IFQ) is modified as set forth in this Addendum. The original IFQ Documents and any previously issued addenda remain in full force and effect, except as modified by this Addendum, which is hereby made part of the IFQ. Bidder shall take this Addendum into consideration when preparing and submitting its Quote.

1.0 – IFQ

Item	Section	Description of Change
1.1	Exhibit A – Background and Specifications, Section 1.0 – Background, Table 4	The specific gravity of 25% Sodium Hydroxide at the Albert Robles Center (ARC) is 1.27, not 1.53. See attached revised (redline) Table 4.
1.2	Exhibit B – Chemical Specifications	The specific gravity of 25% Sodium Hydroxide at the Albert Robles Center (ARC) is 1.27, not 1.53. See attached revised (redline) Chemical Specifications.
1.3	Exhibit C – Cost Table	The specific gravity of 25% Sodium Hydroxide at the Albert Robles Center (ARC) is 1.27, not 1.53. See attached revised (redline) Cost Table.

END OF ADDENDUM



MANDATORY FORM

ACKNOWLEDGE RECEIPT OF ADDENDUM NO. 1

**Invitation for Quote (IFQ)
For the Supply and Delivery of Sodium Hydroxide
IFQ-18-011**

March 29, 2019

Bidder shall acknowledge receipt of this addendum by detaching, signing and attaching to his/her proposal, one (1) copy of this sheet.

I, _____
Name of Proposer, Company Name

Address, City, State, Zip

Hereby acknowledge receipt of Addendum No. 1 to the **Invitation for Quote (IFQ) for the Supply and Delivery of Sodium Hydroxide** and have considered these revisions in the preparation of my quote. This addendum, consisting of this acknowledgement, shall become a part of any contract made pursuant thereto.

Bidder's Signature

Printed Bidder's Name

Date

**TABLE 4
ARC CHEMICAL USAGE AND STORAGE SUMMARY**

Chemical	Concentration (%)	Specific Gravity	Approx. Annual Consumption at 13,000 AFY Plant Production*		Number of Storage Tanks	Tank Nominal Capacity, each (gal)
			gal (wet)	lb (dry)		
Liquid Ammonium Sulfate	40.0	1.23	45,180	NA	2	3,000
Calcium Hydroxide (Hydrated Lime)	35.0	1.26	440,850	NA	2	19,550
Citric Acid	50.0	1.24	7,610	NA	1	1,200
Sodium Bisulfite	38.0	1.10 1.31-1.33	51,370	NA	1	1,900
Sodium Hydroxide (Caustic Soda)	25.0	1.53 1.27	57,440	NA	2	4,200
Sodium Hypochlorite (Bleach)	12.5	1.20	438,060	NA	2	12,700
Sodium Tripolyphosphate (STTP)	100.0	NA	-	39,430	-	-
Sulfuric Acid	93.0	1.83	282,320	-	2	13,150
Threshold Inhibitor/Antiscalant	100.0	1.30	19,290	-	1	4,200

NA = Not available

CHEMICAL SPECIFICATIONS

for

Sodium Hydroxide

Sodium hydroxide (liquid caustic soda) shall be furnished and delivered to all three WRD treatment plants and meet the specifications summarized in the table below.

SUMMARY OF SODIUM HYDROXIDE PROVIDED TO WRD FACILITIES		
WRD Facility	Concentration	Specific Gravity
Leo J. Vander Lans Advanced Water Treatment Facility (LVL), 7380 East Willow Street, Long Beach, CA 90815	Not less than 50% by volume	Between 1.52 and 1.54
Robert W. Goldsworthy Desalter (Goldsworthy Desalter), 20520 Madrona Avenue, Torrance, CA 90503	Not less than 30% by volume	Approximately 1.33
Albert Robles Center Advanced Water Treatment Facility (ARC), 4320 and 4330 San Gabriel River Parkway, Pico Rivera, CA 90660	Not less than 25% by volume	Approximately 1.53 <u>1.27</u>

Caustic soda shall comply with AWWA Standard B501 (or latest edition) and shall contain no soluble material or organic substances in quantities capable of producing deleterious or injurious effects on public health, or causing water so treated to fail to meet State drinking water requirements. Each shipment of liquid caustic soda shall be accompanied by a certified statement giving the specific gravity (60°F) of the solution, the percentages by weight of sodium hydroxide (NaOH), sodium oxide (Na₂O), and the sodium carbonate (Na₂CO₃) in the solution, the heavy metals (as lead [Pb]) and, for payment purposes, the total equivalent weight of 76% sodium oxide.

Each shipment shall also be accompanied by a certification of the net weight and a statement as to the shipment volume, in gallons. Payment will be based on the equivalent weight of 76% sodium oxide (Na₂O), in each shipment of liquid caustic soda received, computed using the following formula:

$$(\text{Wt. of liquid caustic soda}) \times (\% \text{ Na}_2\text{O content} / 0.76) = \text{Eq. Wt. 76\% Na}_2\text{O}$$

The liquid caustic soda shall be shipped via tank trucks which meet the cleanliness required in drinking water treatment.

COST TABLE

Sodium Hydroxide Supply/Delivery Quote
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA
DUE: Monday, April 8, 2019, 4 p.m.
CONTRACT PERIOD: May 1, 2019 to April 30, 2020

PLEASE INCLUDE MSDS AND CERTIFICATE OF ANALYSIS OR TECH SHEET WITH QUOTE DOCUMENTS.

Item No.	Chemical	Concentration (%)	Specific Gravity	Estimated Typical Delivery	Delivery Location			Unit	Cost* per Unit
					LVL	Goldsworthy	ARC		
1	Sodium Hydroxide (Liquid Caustic Soda)	25.0	1.53	2,000 – 4,000 gallons			X	dry ton	
2	Sodium Hydroxide (Liquid Caustic Soda)	30.0	1.33	3,000 gallons		X		dry ton	
3	Sodium Hydroxide (Liquid Caustic Soda)	50.0	1.53 1.27	20 – 25 tons in bulk; ~4,000 gallons	X			dry ton	

* The unit price shall be fully-loaded to include all costs to supply and deliver chemicals to the WRD treatment plant(s) indicated above. Contractor shall be responsible for and pay all costs of delivery and assume risk of loss and damage to the destination point. WRD shall not pay Contractor nor its subcontractors for any direct or reimbursable expenses incurred for implementation of the scope of services described in this IFQ, including but not limited to the manufacture and sampling of chemicals, labor, cartage, mileage, equipment, supplies, assessments, surcharges, permits, licenses, overhead, profit, markups, etc. Although WRD does not anticipate compensating the Contractor for any additional items or expenses, any such additional amounts to be charged to WRD should be identified below. Costs NOT identified herein may not be added at the time of invoicing.
