

# EAST BAY MUNICIPAL UTILITY DISTRICT

## REQUEST FOR QUOTATION (RFQ) No. 2309 for BULK CHEMICALS FOR WATER AND WASTEWATER

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For complete information regarding this project, see RFQ posted at <https://www.ebmud.com/business-center/materials-and-supplies-bids/current-requests-quotation-rfqs/> or contact the EBMUD representative listed above. Please note that prospective bidders are responsible for reviewing this site during the RFQ process, for any published addenda regarding this RFQ.

**Bids Due**  
by  
**1:30 p.m.**  
on  
**March 8, 2023**

All bid submissions hand delivered or mailed (USPS, FedEx, UPS, etc.) to the address or PO Box noted below and must be received no later than 1:30 p.m. on the bid due date.

**RESPONSE DELIVERED IN-PERSON, BY  
COURIER, OR PACKAGE DELIVERY  
SERVICE (UPS, FedEx, DHL, etc.)**

**EBMUD–Purchasing Division  
375 Eleventh Street, First Floor  
Oakland, CA 94607**

**RESPONSE DELIVERED BY MAIL (USPS) to:**

**EBMUD–Purchasing Division  
P.O. Box 24055  
Oakland, CA 94623**

# EAST BAY MUNICIPAL UTILITY DISTRICT

RFQ No. 2309

for

## BULK CHEMICALS FOR WATER AND WASTEWATER

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### ATTACHMENTS

EXHIBIT A – RFQ RESPONSE PACKET

EXHIBIT B – INSURANCE REQUIREMENTS

EXHIBIT C – GENERAL REQUIREMENTS

EXHIBIT D – IRAN CONTRACTING ACT CERTIFICATION

EXHIBIT E – CHEMICAL REQUIREMENTS BY SCHEDULE

## I. STATEMENT OF WORK

### A. SCOPE

It is the intent of these specifications, terms, and conditions to describe requirement to furnish water and wastewater treatment chemicals required by the East Bay Municipal District (District). The chemicals will be delivered, as needed, to the various locations throughout the District as described in this RFQ.

East Bay Municipal Utility District (District) intends to award a contract to the lowest cost bidder(s) whose response meets the District's requirements.

### B. BIDDER QUALIFICATIONS

#### 1. Bidder Minimum Qualifications

- a. Bidder, bidder's principal, or bidder's staff shall have been regularly engaged in the business of providing water treatment chemicals for at least five (5) years.
- b. Bidder shall be a certified and/or authorized manufacturer, dealer, or provider.
- c. Bidder shall possess all permits, licenses, and professional credentials necessary to supply product and perform services as specified under this RFQ.

### C. SPECIFIC REQUIREMENTS

#### 1. GENERAL

Under each of the schedules, it is required that bulk chemicals be furnished and delivered as specified, f.o.b. the various sites throughout the District, all in accordance with these specifications. **Refer to the individual specifications for schedules I – XII located in EXHIBIT E – CHEMICAL REQUIREMENTS BY SCHEDULE of this RFQ.** The amount of chemicals ordered may be increased or decreased as required by the District.

The District requires that critical vendors be able to continue to supply product in case of an unexpected disaster or urgent emergency event. All bidders must supply supporting documentation and/or a summary of plans addressing their ability to do so.

In the event a Contractor cannot provide the product in the quantities required by the District, it is the Contractor's sole responsibility to secure and deliver the

additional quantities required by the District. If sufficient quantities of material are not provided by the Contractor, the District may purchase the material from any supplier on the open market.

If a Contractor anticipates a workforce interruption, production shutdown or has an unanticipated emergency that could interrupt the delivery of the product, the Contractor must contact District staff immediately by phone, e-mail or fax.

## 2. QUANTITIES

As this is a requirements contract, the quantities specified on the Bidding Sheets are approximate only and may be increased or decreased in any amount to conform to the District's needs. The District reserves the right to weigh all chemicals received on the scale located at the Main Wastewater Treatment Plant to verify quantities shipped.

## 3. CERTIFICATIONS

**\*\*\*As stated in EXHIBIT A - RFQ Response Packet, Required Documentation and Submittals, all Bidders must attach current evidence of certification with their bid as proof their product(s) meet NSF60 requirements. FAILURE TO SUBMIT CHEMICAL ANALYSES WITH THE BID MAY RESULT IN THE BID BEING DEEMED NONRESPONSIVE.\*\*\***

All bidders must review and adhere to the chemical NSF/ANSI standard 60 certification requirements set forth in the following:

BARCLAYS OFFICIAL CALIFORNIA CODE OF REGULATIONS  
TITLE 22. SOCIAL SECURITY  
DIVISION 4. ENVIRONMENTAL HEALTH  
CHAPTER 16. CALIFORNIA WATERWORKS STANDARDS  
ARTICLE 7. ADDITIVES

No chemical or product shall be added to drinking water by a water supplier unless the chemical or product is certified as meeting the specifications of NSF International/American National Standard Institute (NSF/ANSI) 60-2005 (Drinking Water Treatment Chemicals -Health Effects), which is hereby incorporated by reference. Certification shall be from an ANSI accredited product certification organization whose certification system includes, as a minimum, the following criteria for ensuring the chemical or product meets NSF/ANSI Standard 60.

- a. Annual product testing,

- b. Annual facility inspections,
- c. Annual quality assurance and quality control review,
- d. Annual manufacturing practice reviews, and
- e. Annual chemical stock inspections.

All chemicals shall be certified by NSF to NSF/ANSI Standard 60.

- a. Documentation which demonstrates current NSF/ANSI Standard 60 certification shall be submitted by the bidder in their bid package
- b. If awarded, contractor is responsible for informing the District, within 5 days, if and when their certification lapses or expires. Failure to inform the District within the allotted time will be sufficient grounds for immediate termination of the contract.

Bidders shall submit with their bids an analysis of the material proposed to be delivered to the District.

The analysis shall be performed by an environmental laboratory that is certified by one of the following methods to report regulatory data:

- a. Through an individual state program where the Environmental Protection Agency (EPA) has approved the state certification program and delegated primacy to the state.
- b. Through a national program, National Environmental Laboratory Accreditation Program (NELAP).
- c. Through direct accreditations by EPA in states that do not have a state Certification program where EPA retains primacy.

The laboratory shall provide all results required in these specifications to confirm compliance.

The analysis shall include those specific contaminants listed under PURITY REQUIREMENTS in the specifications. Impurity limitations imposed by reference to AWWA Specifications apply unless specifically superseded under PURITY REQUIREMENTS of the specifications.

#### 4. HAZARDOUS MATERIALS REQUIREMENTS

Contractor shall be responsible for ensuring compliance with all Federal, State and local environmental health and safety laws and regulations concerning the transport, delivery, transfer and cleanup of hazardous materials while performing under this contract.

Contractor shall provide a copy of "Contractor's Spill Response Plan" within 15 days after receipt of Notice of Award, including the name and phone number of the contact person. Failure to provide this plan may cause the award to be terminated for default.

#### 5. DELIVERY BY TANK TRUCK OR TRAILER

A. The Contractor shall observe the entire filling operation at each delivery site and shall be responsible for minimizing and cleaning up any spillage due to such operation. Any spillage shall be reported immediately to the on-duty Shift Supervisor. If the District has to hire a Contractor to clean up the spill, all costs for clean-up will be the Contractor's responsibility. No leakage to atmosphere or environment will be permitted. No waste material shall be disposed of in District receptacles. No vehicle washing may be done on District property.

B. For deliveries to Water Treatment Plants, the following applies:

- 1) Chemical suppliers will provide identifications to each treatment plant containing a photo, name and driver's license number of each driver delivering to District treatment plants. This information will be given to security guards at each plant, where applicable. If there is a new driver the identification will be faxed to the plant prior to the chemical truck leaving the chemical plant.
- 2) Chemical suppliers will call the treatment plant prior to the delivery truck leaving the chemical plant. The supplier will provide the treatment plant operator with the truck drivers name type of chemical to be delivered, license plate number of the trailer and time of delivery (four-hour window). This information will be logged in the plant log and given to the security guard at each plant where applicable.
- 3) Prior to coming on plant grounds the drivers will be asked his name and that will be checked against his photo identification card and the information provided by the vendor.

- 4) The trailer license plate will be checked against the information provided by the vendor.
- 5) Prior to opening any treatment plant valves a grab sample will be taken from the lowest point available on the trailer and be analyzed for pH, specific gravity and appearance. This information will be checked against the certificate of analyses. If everything matches, the load can be accepted. A second sample will be taken approximately halfway through the delivery process and analyzed. If everything matches, Contractor will continue off-loading.
- 6) The only exceptions to this will be if the chemical the treatment plant is receiving are in carboys, 55-gallon drums or 44-pound containers being delivered by independent freight haulers (Yellow, Viking, etc.). In such instances, the following procedure will be followed.
  - Chemical vendor will seal all drums and or carboys with identifiable markings covering all caps and barrel rings.
  - The chemical vendor will call the plant operator with the identifiable marking. This will be logged in the plant log.
  - The chemical vendor will give a delivery date to the treatment plant when the chemical order is made. If a change in the delivery date is required, the vendor will notify the treatment plant with the new date. The delivery date will be given to security guard, where applicable, on the morning of expected delivery.
  - The vendor will supply the treatment plant with the freight company's name prior to delivery date.
  - Upon delivery, the operator will verify all markings against those provided by the vendor and all paperwork provided by the delivery driver.
- 7) If any of the above procedures is not followed, the operator will call the vendor to try to identify the driver and/or definable marking. When this is done the delivery can be accepted. If identification cannot be confirmed, notify the plant supervisor or water treatment superintendent. The delivery will be rejected and sent back to the vendor upon management review.

- C. For deliveries to wastewater facilities (i.e., Main Wastewater Treatment Plant, North Richmond Water Reclamation Plant, Pump Stations, Wet Weather Facilities), the following applies:
- 1) Chemical suppliers shall provide the name, driver's license number and a photo of each driver delivering to wastewater sites. This information will be used by the District to generate security badges for each driver. The driver will be required to present the badge to District security or operations personnel at all wastewater sites to gain admittance to the site. Deliveries by drivers without proper and current badging may be delayed or rejected.
  - 2) All deliveries to North Richmond Reclamation Plant, Pump Stations, Wet Weather Facilities, and deliveries of ferric chloride to the Main Wastewater Treatment Plant shall be scheduled at the time of ordering for a time and date agreed upon by the District and the supplier. The supplier shall call the designated District representative in the event the delivery is delayed. The supplier shall be responsible for monitoring sodium hypochlorite and sodium bisulfite tank levels at the Main Wastewater Treatment Plant and scheduling deliveries as necessary to maintain minimum chemical inventories as follows:
    - Greater than 50% of tank capacity for sodium hypochlorite
    - Greater than 7 feet in each sodium bisulfite tank
- The District reserves the right to modify the above minimum levels or delivery processes as necessary.
- 3) Chemical suppliers shall call, e-mail, or fax (at the discretion of the District) the designated representative(s) of the facility where a delivery is destined prior to the delivery truck leaving the chemical plant and provide the following information:
    - Type and approximate amount of chemical to be delivered
    - License numbers of trailer and tractor
    - Time and date of delivery (within a 4 hour window for deliveries of sodium hypochlorite and sodium bisulfite to the Main Wastewater Treatment Plant, as agreed at the time of ordering for all other deliveries)
    - Name/District badge number of driver
    - Bill of Lading number

Deliveries will be checked against the supplied information and may be subject to rejection or delay if the information does not match.

- 4) In the event of nonconformance with items 1 or 2 above, the District will call the supplier to attempt to identify the driver and load as originating from the proper chemical supplier. If identification can be confirmed, the load can be accepted. If not, the load will be rejected. All expenses incurred from delays or rejections as a result of nonconformance with items 1 or 2 above are the responsibility of the chemical supplier.
- 5) At the sole option of the District, the supplier's delivery personnel (driver) may be asked to collect a sample before the shipment is unloaded. In this case, the District will supply the sample container and the driver shall collect the sample from the tank truck and turn it over to the District. The sample shall be considered representative of the lot. The District reserves the right to subject samples of the chemical to analyses to ensure that it meets the specification.
  - Sampling and Testing of Shipment Prior to Unloading - Any lot tested by the District that fails to comply with the specifications shall constitute grounds for rejection of that lot. No payment shall be made for chemical that is rejected. The contractor or its subcontractors shall allow 45 minutes for this testing to be completed. If testing cannot be completed within the 45-minute period, the District shall allow the supplier to unload the shipment.
  - Sampling and Testing After Unloading – More extensive analyses may be run on any sample to determine compliance with the specification.
- 6) The tanks or trailers used for delivery shall be clean and free of residue that may contaminate the supplier's product or impede the unloading process. It is the supplier's responsibility to verify the cleanliness of the transporting equipment before loading. All appurtenant valves, pumps, and discharge hoses used for the delivery of chemical shall be furnished by the supplier and shall be clean and free from contaminating material. The District may reject a load if the equipment is not properly cleaned. In addition, the District reserves the right to refuse any and all deliveries made with equipment that is poorly maintained.
- 7) The supplier shall furnish a District-approved, leak-free connection device between the trailer and the District's intake receptacle.

## 6. TAG RECEIPTS AND INVOICING

The District requires that each winning bidder include the following information with each invoice and related tags. The information must be legible or else payment may be delayed. Tags and related invoices should be submitted on a weekly basis. Invoices and tags without this information will be returned to the vendor for their completion. If the requested information is complete, receipt of materials can be verified, and payments processed more efficiently.

Required information is:

- 1) Valid Purchase Order (PO) number.
- 2) The name of the District employee who placed and/or received the order.
- 3) The employee number of the person that placed and/or received the order.
- 4) The job location.
- 5) Specific job number.
- 6) Dates.
- 7) Hours worked.
- 8) Name of Company.

## 7. DELIVERY DESTINATIONS

All items shall be delivered f.o.b. destination to locations specified in each Schedule. Deliveries shall be made as required in the individual Schedules, or as indicated at the time of order. Normal delivery hours are indicated in the Schedules. District holidays are the following:

- Martin Luther King, Jr. Day
- Lincoln's Birthday
- Washington's Birthday
- Cesar Chavez' Birthday
- Memorial Day
- Juneteenth
- Independence Day
- Labor Day
- Columbus Day
- Veterans' Day
- Thanksgiving Day
- Day After Thanksgiving
- Christmas Day
- Day after Christmas

## 8. SAFETY TRAINING

The Contractor shall be required to provide Safety Data Sheets (SDS) for every chemical prior to initial delivery and provide updated SDSs whenever any changes are made to the formulation requiring any update to existing SDSs at no additional charge to the District. In addition, any written safety and health training materials the Contractor has developed for their employees will be provided to the District at no additional charge upon request by the District. Every Contractor will ensure that each of their drivers are aware of the following site-specific information prior to making deliveries to any District facility.

- A. Point of contact and telephone number at each facility;
- B. Site layout and security requirements;
- C. Traffic patterns and restrictions (i.e., speed limits, prohibited areas, delivery points, etc.);
- D. Emergency plant procedures to include any warning systems such as tone pager systems or other audible/visible emergency warning systems and emergency evacuation plans;
- E. Accident and injury reporting.

In addition, Contractors will provide at no charge to the District the following information about their product line:

- Chemical specific handling procedures;
- Spill containment and cleanup;
- Recommended disposal methods;
- Sampling techniques.

## 9. COMPLIANCE WITH LAWS AND LABELING

The contractor shall supply appropriate container labels and/or Safety Data Sheets as required by CAL-OSHA and the California Code of Regulations, Title 8, Section 5194 when requested by the District.

The Contractor shall comply with all applicable Federal, State, and local laws, ordinances, codes, and regulations, and shall possess all valid state licenses for the work under this Proposal. By submitting a bid pursuant to this Proposal, Contractor represents and warrants that Contractor shall comply with all applicable laws and possesses all valid licenses for the work under this Proposal.

**D. FAILURE TO MEET SPECIFICATIONS**

In the event any shipment or shipments of a Contractor's product do not meet the specification or delivery requirements, the District may reject the shipment or shipments and, at its option, may purchase this material from any supplier on the open market who can meet the District's specification requirements, or the District may demand immediate replacement by Contractor of the non-conforming product. Any costs over and above the original contract price will be charged back to the Contractor. In addition, Contractor shall bear the costs of removal and disposition for any delivery which fails to conform to the specifications.

**II. CALENDAR OF EVENTS**

EVENT	DATE/LOCATION
<b>RFQ Issued</b>	February 8, 2023
<b>Deadline For Submission of Questions</b>	February 16, 2023
<b>Response Due</b>	March 8, 2023 by 1:30 p.m. At this time all bids will be opened publicly in the EBMUD Board Room at 375 Eleventh St., Oakland, CA 94607*
<b>Anticipated Contract Start Date</b>	April 17, 2023

**Note:** All dates are subject to change **by District**.

\*Due to COVID-19, in-person bid inspection will be suspended. Following the opening a list of submitted pricing will be posted to:

<https://www.ebmud.com/business-center/materials-and-supplies-bids/>

Bidders are responsible for reviewing <https://www.ebmud.com/business-center/materials-and-supplies-bids/current-requests-quotation-rfqs/> for any published addenda. Hard copies of addenda will not be mailed out.

**III. DISTRICT PROCEDURES, TERMS, AND CONDITIONS****A. RFQ ACCEPTANCE AND AWARD**

1. RFQ responses will be evaluated to determine that they are responsive, responsible, and that they meet the specifications as stated in this RFQ.
2. The District reserves the right to award to a single or to multiple Contractors, dependent upon what provides the lowest overall cost to the District.

3. The District has the right to decline to award this contract or any part of it for any reason.
4. Any specifications, terms, or conditions, issued by the District, or those included in the bidder's submission, in relation to this RFQ, may be incorporated into any purchase order or contract that may be awarded as a result of this RFQ.
5. Award of contract. The District reserves the right to reject any or all proposals, to accept one part of a proposal and reject the other, unless the bidder stipulates to the contrary, and to waive minor technical defects and administrative errors, as the interest of the District may require. Award will be made, or proposals rejected by the District as soon as possible after bids have been opened.

**B. BRAND NAMES, APPROVED EQUIVALENTS, DEVIATIONS, AND EXCEPTIONS**

Any references to manufacturers, trade names, brand names, and/or catalog numbers are intended to be descriptive, but not restrictive, unless otherwise stated, and are intended to indicate the quality level desired. Bidders may offer an equivalent product that meets or exceeds the specifications.

The District reserves the right to be the sole judge of what shall be considered equal and/or acceptable and may require the bidder to provide additional information and/or samples. If the bidder does not specify otherwise, it is understood that the brand and/or product referenced in this RFQ will be supplied.

**Taking exception to the RFQ, or failure on the part of the bidder to comply with all requirements and conditions of this RFQ, may subject the RFQ response to rejection. If no deviations are shown, the bidder will be required to furnish the material exactly as specified. The burden of proof of compliance with the specifications will be the responsibility of the bidder.**

This RFQ is subject to acceptance only on the terms and conditions stated in this RFQ. Any additional or different terms and conditions proposed by the bidder are hereby rejected and shall be of no force or effect unless expressly assented to in writing by the District.

RFQ responses based on equivalent products must:

1. Use Exhibit A "Exceptions, Clarification and Amendments" to clearly describe the alternate offered and indicate specifically how it differs from the product specified in this RFQ.
2. Include complete descriptive literature and/or specifications as proof that the proposed alternate will be equal to or better than the product named in this RFQ.

**C. PRICING**

1. All prices are to be F.O.B. destination. Any freight/delivery charges are to be included.
2. All prices quoted shall be in United States dollars.
3. Price quotes shall include any and all payment incentives available to the District.
4. Bidders are advised that in the evaluation of cost, if applicable, it will be assumed that the unit price quoted is correct in the case of a discrepancy between the unit price and extended price.

**D. PRICE ADJUSTMENTS**

Prices shall be firm for the initial one-year term of the contract. The District may consider price increases submitted by Contractor, once per each twelve-month period, in determining pricing for bulk chemicals for the term of this Agreement and any extension periods.

**E. NOTICE OF INTENT TO AWARD AND PROTESTS**

At the conclusion of the RFQ response evaluation process, all entities who submitted a bid package will be notified in writing by e-mail or USPS mail with the name of the Bidder being recommended for contract award. The document providing this notification is the Notice of Intent to Award.

Protests must be in writing and must be received no later than seven (7) workdays after the District issues the Notice of Intent to Award. The District will reject the protest as untimely if it is received after this specified time frame. Protests will be accepted from bidders or potential bidders only.

If the protest is mailed and not received by the District, the protesting party bears the burden of proof to submit evidence (e.g., certified mail receipt) that the protest was sent in a timely manner so that it would be received by the District within the RFQ protest period.

Bid protests must contain a detailed and complete written statement describing the reason(s) for protest. The protest must include the name and/or number of the bid, the name of the firm protesting, and include a name, telephone number, email address and physical address of the protester. If a firm is representing the protester, they shall include their contact information in addition to that of the protesting firm.

Protests must be mailed, hand delivered, or emailed to the Manager of Purchasing, Mailstop 102, East Bay Municipal Utility District, 375 Eleventh Street, Oakland, CA 94607 or P.O. Box 24055, Oakland, California 94623. Facsimile and electronic mail protests must be followed by a mailed or hand delivered identical copy of the protest and must arrive within the seven workday time limit. Any bid protest filed with any other District office shall be forwarded immediately to the Manager of Purchasing.

If the protest is denied, the bid protester can appeal the determination to the requesting organization's Department Director. The appeal must be submitted to the Department Director no later than five workdays from the date which the protest determination was transmitted by the District, to the protesting party. The appeal shall focus on the points raised in the original protest, and no new points shall be raised in the appeal.

Such an appeal must be made in writing and must include all grounds for the appeal and copies of the original protest and the District's response. The bid protester must also send the Purchasing Division a copy of all materials sent to the Department Director. The Department Director will make a determination of the appeal and respond to the protester by certified mail in a timely manner. If the appeal is denied, the letter will include the date, time, and location of the Board of Directors meeting at which staff will make a recommendation for award and inform the protester it may request to address the Board of Directors at that meeting.

The District may transmit copies of the protest and any attached documentation to all other parties who may be affected by the outcome of the protest. The decision of the District as to the validity of any protest is final. This District's final decision will be transmitted to all affected parties in a timely manner.

F. METHOD OF ORDERING

1. Written POs may be issued upon approval of written itemized quotations received from the Contractor.
2. POs and payments for products and/or services will be issued only in the name of Contractor.
3. Any and all change orders shall be in writing and agreed upon, in advance, by Contractor and the District.

G. TERM / TERMINATION / RENEWAL

1. The term of the contract, which may be awarded pursuant to this RFQ, will be three (3) years.

2. At the sole discretion of the District, any contract which may be awarded pursuant to this RFQ, may be extended for two (2) additional one-year terms at agreed prices with all other terms and conditions remaining the same. In the event that a Contractor does not agree to an extension, the District shall be given a minimum of 90 days' notice to locate a suitable replacement contractor.
3. This Agreement may be terminated for convenience by the District provided the Contractor is given written notice of not less than 30 calendar days. Upon such termination, the District shall pay the Contractor the amount owing for the products ordered and satisfactorily received by the District. This shall be the sole and exclusive remedy to which the Contractor is properly entitled in the event of termination by the District.
4. This Agreement may be terminated for cause at any time, provided that the District notifies Contractor of impending action.

#### H. INVOICING

1. Following the District's acceptance of product(s) meeting all specified requirements, and/or the complete and satisfactory performance of services, the District will render payment within thirty (30) days of receipt of a correct invoice.
2. The District shall notify Contractor of any invoice adjustments required.
3. Invoices shall contain, at a minimum, District purchase order number, invoice number, remit to address, and itemized products and/or services description.
4. The District will pay Contractor in an amount not to exceed the total amount quoted in the RFQ response.

### IV. RFQ RESPONSE SUBMITTAL INSTRUCTIONS AND INFORMATION

#### A. DISTRICT CONTACTS

All contact during the competitive process is to be through the contact listed on the first page of this RFQ. The following persons are to be contacted only for the purposes specified below.

TECHNICAL SPECIFICATIONS:

Attn: Clarence R. Peralta, Superintendent of Water Treatment  
(510) 287-1146

Attn: Kevin R. Dickison, Wastewater Treatment Superintendent  
(510) 287-1502, or

Attn: Eric Fukuda, Wastewater Treatment Superintendent  
(510) 287-7213

CONTRACT EQUITY PROGRAM:

Attn: Contract Equity Office  
PHONE: (510) 287-0114

AFTER AWARD REGARDING WATER:

Attn: Clarence R. Peralta, Superintendent of Water Treatment  
EBMUD-Water Treatment & Distribution Div./Water Operations Dept.  
E-Mail: [clarence.peralta@ebmud.com](mailto:clarence.peralta@ebmud.com)  
PHONE: (510) 287-1146

AFTER AWARD REGARDING WASTEWATER:

Attn: Kevin R. Dickison, Wastewater Treatment Superintendent  
EBMUD- Treatment Div./Wastewater Dept.  
E-Mail: [kevin.dickison@ebmud.com](mailto:kevin.dickison@ebmud.com)  
PHONE: (510) 287-1502, or

Attn: Eric Fukuda, Wastewater Treatment Superintendent  
EBMUD-Treatment Div./Wastewater Dept.  
E-Mail: [eric.fukuda@ebmud.com](mailto:eric.fukuda@ebmud.com)  
PHONE: (510) 287-7213

B. SUBMITTAL OF RFQ RESPONSE

1. Responses must be submitted in accordance with Exhibit A – RFQ Response Packet, including all additional documentation stated in the “Required Documentation and Submittals” section of Exhibit A.
2. Late and/or unsealed responses will not be accepted.
3. RFQ responses submitted via electronic transmissions will not be accepted. Electronic transmissions include faxed RFQ responses or those sent by electronic mail (“e-mail”).
4. All RFQ responses must be SEALED and received by 1:30 p.m. on the due date specified in the Calendar of Events. Any RFQ response received after that time/date, or at a place other than the stated addresses, cannot be considered and will be returned to the bidder unopened. The EBMUD mailroom and Purchasing Division timestamp shall be considered the official timepiece for the purpose of establishing the actual receipt of RFQ responses.

5. RFQ responses are to be addressed/delivered as follows:

Mailed (USPS):

East Bay Municipal Utility District  
BULK CHEMICALS FOR WATER AND WASTEWATER  
RFQ No. 2309  
EBMUD–Purchasing Division  
P.O. Box 24055  
Oakland, CA 94623

Hand Delivered, delivered by courier or package delivery service (UPS, FedEx, DHL, etc.):

East Bay Municipal Utility District  
BULK CHEMICALS FOR WATER AND WASTEWATER  
RFQ No. 2309  
EBMUD–Purchasing Division  
375 Eleventh Street, First Floor  
Oakland, CA 94607

**Bidder's name, return address, and the RFQ number and title must also appear on the mailing package.**

6. All costs required for the preparation and submission of an RFQ response shall be borne by the bidder.
7. California Government Code Section 4552: In submitting an RFQ response to a public purchasing body, the bidder offers and agrees that if the RFQ response is accepted, it will assign to the purchasing body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2, commencing with Section 16700, of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, materials, or services by the bidder for sale to the purchasing body pursuant to the RFQ response. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the bidder.
8. Bidder expressly acknowledges that it is aware that if a false claim is knowingly submitted (as the terms “claim” and “knowingly” are defined in the California False Claims Act, Cal. Gov. Code, §12650 et seq.), the District will be entitled to civil remedies set forth in the California False Claim Act.
9. The RFQ response shall remain open to acceptance and is irrevocable for a period of one hundred eighty (180) days, unless otherwise specified in the RFQ documents.

10. It is understood that the District reserves the right to reject any or all RFQ responses.
11. RFQ responses, in whole or in part, are NOT to be marked confidential or proprietary. The District may refuse to consider any RFQ response or part thereof so marked. RFQ responses submitted in response to this RFQ may be subject to public disclosure. The District shall not be liable in any way for disclosure of any such records.



**EXHIBIT A**  
**RFQ RESPONSE PACKET**  
**RFQ No. 2309 – BULK CHEMICALS FOR WATER AND WASTEWATER**

To: The EAST BAY MUNICIPAL UTILITY District (“District”)

From: \_\_\_\_\_  
(Official Name of Bidder)

**RFQ RESPONSE PACKET GUIDELINES**

- **BIDDERS ARE TO SUBMIT ONE (1) ORIGINAL HARDCOPY RFQ RESPONSE WITH ORIGINAL INK SIGNATURES, AND ONE (1) COPY, CONTAINING THE FOLLOWING IN THEIR ENTIRETY:**
  - **EXHIBIT A – RFQ RESPONSE PACKET**
    - **INCLUDING ALL REQUIRED DOCUMENTATION AS DESCRIBED IN “EXHIBIT A-REQUIRED DOCUMENTATION AND SUBMITTALS”**
- **ALL PRICES AND NOTATIONS MUST BE PRINTED IN INK OR TYPEWRITTEN; NO ERASURES ARE PERMITTED; ERRORS MAY BE CROSSED OUT AND CORRECTIONS PRINTED IN INK OR TYPEWRITTEN ADJACENT AND MUST BE INITIALED IN INK BY PERSON SIGNING THE RFQ RESPONSE.**
- **BIDDERS THAT DO NOT COMPLY WITH THE REQUIREMENTS, AND/OR SUBMIT AN INCOMPLETE RFQ RESPONSE MAY BE SUBJECT TO DISQUALIFICATION AND THEIR RFQ RESPONSE REJECTED IN TOTAL.**
- **IF BIDDERS ARE MAKING ANY CLARIFICATIONS AND/OR AMENDMENTS, OR TAKING EXCEPTION TO ANY PART OF THIS RFQ, THESE MUST BE SUBMITTED IN THE EXCEPTIONS, CLARIFICATIONS, AND AMENDMENTS SECTION OF THIS EXHIBIT A – RFQ RESPONSE PACKET. THE DISTRICT, AT ITS SOLE DISCRETION, MAY ACCEPT AMENDMENTS/EXCEPTIONS, OR MAY DEEM THEM TO BE UNACCEPTABLE, THEREBY RENDERING THE RFQ RESPONSE DISQUALIFIED.**
- **BIDDERS SHALL NOT MODIFY DISTRICT LANGUAGE IN ANY PART OF THIS RFQ OR ITS EXHIBITS, NOR SHALL THEY QUALIFY THEIR RFQ RESPONSE BY INSERTING THEIR OWN LANGUAGE OR FALSE CLAIMS IN THEIR RESPONSE. ANY EXCEPTIONS AND CLARIFICATIONS MUST BE PLACED IN THE “EXCEPTIONS/ CLARIFICATIONS” PAGE, NOT BURIED IN THE PROPOSAL ITSELF.”**



## **BIDDER INFORMATION AND ACCEPTANCE**

1. The undersigned declares that all RFQ documents, including, without limitation, the RFQ, Addenda, and Exhibits, have been read and that the terms, conditions, certifications, and requirements are agreed to.
2. The undersigned is authorized to offer, and agrees to furnish, the articles and services specified in accordance with the RFQ documents.
3. The undersigned acknowledges acceptance of all addenda related to this RFQ.
4. The undersigned hereby certifies to the District that all representations, certifications, and statements made by the bidder, as set forth in this RFQ Response Packet and attachments, are true and correct and are made under penalty of perjury pursuant to the laws of California.
5. The undersigned acknowledges that the bidder is, and will be, in good standing in the State of California, with all the necessary licenses, permits, certifications, approvals, and authorizations necessary to perform all obligations in connection with this RFQ and associated RFQ documents.
6. It is the responsibility of each bidder to be familiar with all of the specifications, terms, and conditions and, if applicable, the site condition. By the submission of an RFQ response, the bidder certifies that if awarded a contract it will make no claim against the District based upon ignorance of conditions or misunderstanding of the specifications.
7. Patent indemnity: Contractors who do business with the District shall hold the District, its Directors, officers, agents, and employees, harmless from liability of any nature or kind, including cost and expenses, for infringement or use of any patent, copyright, or other proprietary right, secret process, patented or unpatented invention, article, or appliance furnished or used in connection with the contract or purchase order.
8. Insurance certificates are not required at the time of submission. However, by signing Exhibit A – RFQ Response Packet, the bidder agrees to meet the minimum insurance requirements stated in the RFQ. This documentation must be provided to the District prior to execution of an agreement by the District and shall include an insurance certificate which meets the minimum insurance requirements, as stated in the RFQ.
9. The undersigned acknowledges that RFQ responses, in whole or in part, are NOT to be marked confidential or proprietary. The District may refuse to consider any RFQ response or part thereof so marked. RFQ responses submitted in response to this RFQ may be subject to public disclosure. The District shall not be liable in any way for disclosure of any such records.
10. The undersigned bidder hereby submits this RFQ response and binds itself on award to the District under this RFQ to execute in accordance with such award a contract and to furnish the bond or bonds and insurance required by the RFQ. The RFQ, subsequent Addenda, bidder's Response Packet, and any attachments, shall constitute the Contract, and all provisions thereof are hereby accepted.

11. The undersigned acknowledges **ONE** of the following (please check only one box):

- ☐ Bidder is not an SBE and is ineligible for any bid preference; **OR**
- ☐ Bidder is an SBE or DVBE as described in the Contract Equity Program (CEP) and Equal Employment Opportunity (EEO) Guidelines, is requesting a 7% bid preference, and has completed the CEP and EEO forms at the hyperlink contained in the CEP and EEO section of this Exhibit A.

For additional information on SBE bid preference, please refer to the Contract Equity Program and Equal Employment Opportunity Guidelines at the above referenced hyperlink.

Official Name of Bidder (exactly as it appears on Bidder's corporate seal and invoice): \_\_\_\_\_

Street Address Line 1: \_\_\_\_\_

Street Address Line 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Webpage: \_\_\_\_\_

Type of Entity / Organizational Structure (check one):

- |  |  |
|--|--|
| <input type="checkbox"/> Corporation                   | <input type="checkbox"/> Joint Venture       |
| <input type="checkbox"/> Limited Liability Partnership | <input type="checkbox"/> Partnership         |
| <input type="checkbox"/> Limited Liability Corporation | <input type="checkbox"/> Non-Profit / Church |
| <input type="checkbox"/> Other: _____                  |  |

Jurisdiction of Organization Structure: \_\_\_\_\_

Date of Organization Structure: \_\_\_\_\_

Federal Tax Identification Number: \_\_\_\_\_

Department of Industrial Relations (DIR) Registration Number: \_\_\_\_\_

Primary Contact Information:

Name / Title: \_\_\_\_\_

Telephone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Street Address Line 1: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**SIGNATURE:** \_\_\_\_\_

Name and Title of Signer (printed): \_\_\_\_\_

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_



## BID FORM(S)

Cost shall be submitted on this Bid Form as is. The prices quoted shall not include Sales Tax or Use Tax; said tax, wherever applicable, will be paid by the District to the contractor, if licensed to collect, or otherwise directly to the State.

No alterations or changes of any kind to the Bid Form(s) are permitted. RFQ responses that do not comply may be subject to rejection in total. The cost quoted below shall be the cost the District will pay for the term of any contract that is a result of this RFQ process.

Quantities listed herein are annual estimates based on past usage and are not to be construed as a commitment. No minimum or maximum is guaranteed or implied.

**\*Enter all individual schedule totals below in BID SUMMARY TABLE at the end of this BID FORM \***

### SCHEDULE I – LIQUID SODIUM HYPOCHLORITE FOR WATER

Item	Estimated Annual Quantity	Description	Unit Price Per Gal	Total Amount
1.	2,000,000 gallons	Sodium Hypochlorite f.o.b. destination to various Water Treatment Plants, as specified	\$_____/gal.	\$_____*

### SCHEDULE II– LIQUID SODIUM HYPOCHLORITE FOR WASTEWATER

Item	Estimated Annual Quantity	Description	Unit Price Per Gal	Total Amount
1.	5,200,000 gallons	Sodium Hypochlorite f.o.b. destination to various District sites, as specified	\$_____/gal.	\$_____*

### SCHEDULE III – LIQUID SODIUM HYPOCHLORITE FOR WET WEATHER STATIONS

Item	Estimated Annual Quantity	Description	Unit Price Per Gallon	Total Amount
1.	150,000 gallons	Sodium Hypochlorite f.o.b. destination to various Wet Weather Facilities, as specified	\$_____/gal.	\$_____*

**SCHEDULE IV– CAUSTIC SODA FOR WATER**

Item	Estimated Annual Quantity	Description	Unit Price Per Dry Ton	Total Amount
1.	2,000 tons	(76% Na <sub>2</sub> O basis) of liquid caustic soda delivered f.o.b. destination to six District water treatment plants, as specified	\$ _____	\$ _____ *

**SCHEDULE V – CAUSTIC SODA FOR WASTEWATER**

Item	Estimated Annual Quantity	Description	Unit Price Per Dry Ton	Total Amount
1.	525 tons	(76% NA <sub>2</sub> O basis) of liquid caustic soda, delivered f.o.b. destination at North Richmond Reclamation Plant, as specified	\$ _____ / per dry ton as NaOH	\$ _____ *

**SCHEDULE VI - SODIUM BISULFITE FOR WATER**

Item	Estimated Annual Quantity	Description	Unit Price Per Ton	Total Amount
1.	700 tons	Sodium bisulfite, f.o.b. destination to Orinda Water Treatment Plant, as specified	\$ _____	\$ _____ *

**SCHEDULE VII – SODIUM BISULFITE FOR WASTEWATER**

Item	Estimated Annual Quantity	Description	Unit Price Per Dry Ton	Total Amount
1.	1,350 tons	Sodium bisulfite f.o.b. destination to various District sites, as specified	\$ _____ / dry ton as NaHSO <sub>3</sub>	\$ _____ *

**SCHEDULE VIII– MAGNESIUM HYDROXIDE FOR WASTEWATER**

Item	Estimated Annual Quantity	Description	Unit Price Per Dry Ton	Total Amount
1.	350,000 lbs.	Magnesium Hydroxide f.o.b. destination to Main Wastewater Treatment Plant, as specified, to various District sites, as specified	\$ _____	\$ _____ *

**SCHEDULE IX – FERRIC CHLORIDE FOR WASTEWATER**

Item	Estimated Annual Quantity	Description	Unit Price Per Dry Ton	Total Amount
1.	375 tons	Ferric chloride, f.o.b. destination to Wastewater Treatment Plant, as specified	\$ _____ / dry ton as FeCl <sub>3</sub>	\$ _____ *

**SCHEDULE X - SULFURIC ACID (93%) FOR WASTEWATER**

Item	Estimated Annual Quantity	Description	Unit Price Per Dry Ton	Total Amount
1.	785 tons	Sulfuric acid (93%) f.o.b. destination to North Richmond Water Reclamation Plant, as specified	\$ _____ / dry ton H <sub>2</sub> SO <sub>4</sub>	\$ _____ *

**SCHEDULE XI – AQUA AMMONIA FOR WATER**

Item	Estimated Annual Quantity	Description	Unit Price Per Gallon	Total Amount
1.	450,000 gallon	Aqua ammonia, f.o.b. destination to six District water treatment plants, as specified	\$ _____	\$ _____ *

**SCHEDULE XII – LIQUID ALUMINUM SULFATE FOR WATER**

Item	Estimated Annual Quantity	Description	Unit Price Per Ton	Total Amount
1.	1,000 tons	(17% Al <sub>2</sub> O <sub>3</sub> dry basis of liquid aluminum sulfate (in minimum 3,000-gallon shipments), f.o.b. destination to three District water treatment plants, as specified	\$_____	\$_____*

**BID SUMMARY TABLE**

SCHEDULE	TOTAL
I. - Liquid Sodium Hypochlorite for Water	\$_____
II. - Liquid Sodium Hypochlorite for Wastewater	\$_____
III. - Liquid Sodium Hypochlorite for Wet Weather Stations	\$_____
IV. - Caustic Soda for Water	\$_____
V. - Caustic Soda for Wastewater	\$_____
VI. - Sodium Bisulfite for Water	\$_____
VII. - Sodium Bisulfite for Wastewater	\$_____
VIII. - Magnesium Hydroxide for Wastewater	\$_____
IX. - Ferric Chloride for Wastewater Bulk Tanks	\$_____
X. - Sulfuric Acid for Wastewater (93%)	\$_____
XI. - Aqua Ammonia for Water	\$_____
XII. - Liquid Aluminum Sulfate for Water	\$_____



## REQUIRED DOCUMENTATION AND SUBMITTALS

All of the specific documentation listed below is required to be submitted with the Exhibit A – RFQ Response Packet. Bidders shall submit all documentation, in the order listed below, and clearly label each section of the RFQ response with the appropriate title (i.e. Table of Contents, Letter of Transmittal, Key Personnel, etc.).

1. **Evidence of current NSF 60 and/or 61 certification:**
2. **Description of Emergency Supply Plan:** The District requires that critical vendors be able to continue to supply product in case of an unexpected disaster or urgent emergency event. RFQ response shall include supporting documentation and/or a summary of plans addressing ability to do so.
3. **Material Analysis:** In accordance with Section I. STATEMENT OF WORK, C. SPECIFIC REQUIREMENTS, 3. CERTIFICATIONS; Bidders shall submit with their bids an analysis of the material proposed to be delivered to the District.
4. **References:**
  - (a) Bidders must use the templates in the “References” section of this Exhibit A – RFQ Response Packet to provide references.
  - (b) References should have similar scope, volume, and requirements to those outlined in these specifications, terms, and conditions.
    - Bidders must verify the contact information for all references provided is current and valid.
    - Bidders are strongly encouraged to notify all references that the District may be contacting them to obtain a reference.
  - (c) The District may contact some or all of the references provided in order to determine Bidder’s performance record on work similar to that described in this RFQ. The District reserves the right to contact references other than those provided in the RFQ response.
5. **Exceptions, Clarifications, Amendments:**
  - (a) The RFQ response shall include a separate section calling out all clarifications, exceptions, and amendments, if any, to the RFQ and associated RFQ documents, which shall be submitted with Bidder’s RFQ response using the template in the “Exceptions, Clarifications, Amendments” section of this Exhibit A – RFQ Response Packet.
  - (b) **THE DISTRICT IS UNDER NO OBLIGATION TO ACCEPT ANY EXCEPTIONS, AND SUCH EXCEPTIONS MAY BE A BASIS FOR RFQ RESPONSE DISQUALIFICATION.**

6. **Sustainability Statement:** Contractors shall submit a statement regarding any sustainable or environmental initiatives or practices that they or their suppliers engage in. This information can be in relation to the specific products procured under this RFQ or in relation to the manufacture, delivery, or office practices of your firm.

If applicable, please also provide any information you have available on the below:

- a. Has your firm taken steps to enhance its ability to assess, track and address issues regarding Greenhouse Gas (GHG) Emissions in answer to recent legislations such as the [Buy Clean California Act](#)? If so, please attach any data you can on the embedded greenhouse gas emissions in the production and transport of the products and/or services which will be provided via this RFQ. If this is not available, please describe the approach you plan to take in order to gather and report this information in the future. For further information in this topic, please see: <http://www.ghgprotocol.org/scope-3-technical-calculation-guidance>

7. **Contract Equity Program:**

- a. Every bidder must fill out, sign, and submit the appropriate sections of the Contract Equity Program and Equal Employment Opportunity documents located at the hyperlink contained in the last page of this Exhibit A. Special attention should be given to completing Form P-25, "Contractor Employment Data and Certification". Any bidder needing assistance in completing these forms should contact the District's Contract Equity Office at (510) 287-0114 prior to submitting an RFQ response.



## REFERENCES

### RFQ No. 2309 – BULK CHEMICALS FOR WATER AND WASTEWATER

**Bidder Name:** \_\_\_\_\_

**Bidder must provide a minimum of five (5) references.**

Company Name:	Contact Person:
Address:	Telephone Number:
City, State, Zip:	E-mail Address:
Services Provided / Date(s) of Service:	

Company Name:	Contact Person:
Address:	Telephone Number:
City, State, Zip:	E-mail Address:
Services Provided / Date(s) of Service:	

Company Name:	Contact Person:
Address:	Telephone Number:
City, State, Zip:	E-mail Address:
Services Provided / Date(s) of Service:	

Company Name:	Contact Person:
Address:	Telephone Number:
City, State, Zip:	E-mail Address:
Services Provided / Date(s) of Service:	

Company Name:	Contact Person:
Address:	Telephone Number:
City, State, Zip:	E-mail Address:
Services Provided / Date(s) of Service:	



## EXCEPTIONS, CLARIFICATIONS, AMENDMENTS

### RFQ No. 2309 – BULK CHEMICALS FOR WATER AND WASTEWATER

Bidder Name: \_\_\_\_\_

List below requests for clarifications, exceptions, and amendments, if any, to the RFQ and associated RFQ Documents, and submit with bidder's RFQ response. **The District is under no obligation to accept any exceptions and such exceptions may be a basis for RFQ response disqualification.**

Reference to:			Description
Page No.	Section	Item No.	
p. 23	D	1.c.	<i>Bidder takes exception to...</i>

\*Print additional pages as necessary



## CONTRACT EQUITY PROGRAM & EQUAL EMPLOYMENT OPPORTUNITY

The District's Board of Directors adopted the Contract Equity Program (CEP) to enhance equal opportunities for business owners of all races, ethnicities, and genders who are interested in doing business with the District. The program has contracting objectives, serving as the minimum level of expected contract participation for the three availability groups: white-men owned businesses, white-women owned businesses, and ethnic minority owned businesses. The contracting objectives apply to all contracts that are determined to have subcontracting opportunities, and to all contractors regardless of their race, gender, or ethnicity.

All Contractors and their subcontractors performing work for the District must be Equal Employment Opportunity (EEO) employers and shall be bound by all laws prohibiting discrimination in employment. There shall be no discrimination against any person, or group of persons, on account of race, color, religion, creed, national origin, ancestry, gender including gender identity or expression, age, marital or domestic partnership status, mental disability, physical disability (including HIV and AIDS), medical condition (including genetic characteristics or cancer), genetic information, or sexual orientation.

**Contractor and its subcontractors shall abide by the requirements of 41 CFR §§ 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities and prohibit discrimination against all individuals based on their race, color, religion, sex, sexual orientation, gender identity, or national origin in the performance of this contract. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability.**

All Contractors shall include the nondiscrimination provisions above in all subcontracts.

Please include the required completed forms with your bid.

Non-compliance with the Guidelines may deem a bid non-responsive, and therefore, ineligible for contract award. Your firm is responsible for:

- 1) Reading and understanding the CEP guidelines.
- 2) Filling out and submitting with your bid the appropriate forms.

The CEP guidelines and forms can be found at the following direct link:

**[Contract Equity Guidelines and Forms](#)**

The CEP guidelines and forms can also be downloaded from the District website at the following link:

**<http://ebmud.com/business-center/contract-equity-program/>**

If you have questions regarding the Contract Equity Program, please call (510) 287-0114.



## EXHIBIT B

# INSURANCE REQUIREMENTS

BIDDER shall take out and maintain during the life of the Agreement all insurance required and BIDDER shall not commence work until such insurance has been approved by DISTRICT. The proof of insurance shall be on forms provided by DISTRICT directly following these Insurance Requirements.

BIDDERS are not required to submit completed insurance verification documents with their bid but will be required to submit them upon notification of award. By signing Exhibit A – RFP Response Packet, the BIDDER agrees to meet the minimum insurance requirements stated in the RFP.

The following provisions are applicable to all required insurance:

- A. Prior to the beginning of and throughout the duration of Services, and for any additional period of time as specified below, CONTRACTOR shall, at its sole cost and expense, maintain insurance in conformance with the requirements set forth below.
- B. CONTRACTOR shall provide Verification of Insurance as required by this Agreement by providing the completed Verification of Insurance as requested below signing and submitting this Exhibit B to the DISTRICT. The Exhibit B may be signed by an officer of the CONTRACTOR (Agent) or by the Insurance Broker for the CONTRACTOR. CONTRACTOR shall update Exhibit B throughout the specified term of the insurance required by this Agreement by resubmitting the completed Exhibit B prior to the expiration date of any of the required insurance. The updated Exhibit B shall become a part of the Agreement but shall not require a change order to the Agreement. The Notice to Proceed shall not be issued, and CONTRACTOR shall not commence Services until such insurance has been accepted by the DISTRICT.
- C. CONTRACTOR shall carry and maintain the minimum insurance requirements as defined in this Agreement. CONTRACTOR shall require any subcontractor to carry and maintain the minimum insurance required in this Agreement to the extent they apply to the scope of the services to be performed by subcontractor.
- D. Acceptance of verification of Insurance by the DISTRICT shall not relieve CONTRACTOR of any of the insurance requirements, nor decrease liability of CONTRACTOR.
- E. The insurance required hereunder may be obtained by a combination of primary, excess and/or umbrella insurance, and all coverage shall be at least as broad as the requirements listed in this Agreement.
- F. Any deductibles, self-insurance, or self-insured retentions (SIRs) applicable to the required insurance coverage must be declared to and accepted by the DISTRICT.
- G. At the option and request of the DISTRICT, CONTRACTOR shall provide documentation of its financial ability to pay the deductible, self-insurance, or SIR.
- H. Any policies with a SIR shall provide that any SIR may be satisfied, in whole or in part, by the DISTRICT or the additional insured at its sole and absolute discretion.

- I. Unless otherwise accepted by the DISTRICT, all required insurance must be placed with insurers with a current A.M. Best's rating of no less than A- V.
- J. CONTRACTOR shall defend the DISTRICT and pay any damages as a result of failure to provide the waiver of subrogation from the insurance carrier.
- K. For any coverage that is provided on a claims-made coverage form (which type of form is permitted only where specified) the retroactive date must be shown and must be before the date of this Agreement, and before the beginning of any Services related to this Agreement.
- L. Insurance must be maintained, and updated Verification of Insurance be provided to the DISTRICT before the expiration of insurance by having CONTRACTOR's insurance broker or agent update, sign and return Exhibit B to the DISTRICT's contract manager. For all claims-made policies the updated Verification of Insurance must be provided to the DISTRICT for at least three (3) years after expiration of this Agreement.
- M. If claims-made coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the effective date of this Agreement or the start of any Services related to this Agreement, CONTRACTOR must purchase an extended reporting period for a minimum of three (3) years after expiration of the Agreement.
- N. If requested by the DISTRICT, a copy of the policies' claims reporting requirement must be submitted to the DISTRICT for review.
- O. Where additional insured coverage is required, the additional insured coverage shall be "primary and non-contributory," and will not seek contribution from the DISTRICT's insurance or self-insurance.
- P. CONTRACTOR agrees to provide immediate Notice to the DISTRICT of any loss or claim against CONTRACTOR arising out of, pertaining to, or in any way relating to this Agreement, or Services performed under this Agreement. The DISTRICT assumes no obligation or liability by such Notice but has the right (but not the duty) to monitor the handling of any such claim or claims if they are likely to involve the DISTRICT.
- Q. CONTRACTOR agrees, upon request by the DISTRICT, to provide complete, certified copies of any policies and endorsements within 10 days of such request (copies of policies may be redacted to eliminate premium details.)
- R. It is CONTRACTOR's responsibility to ensure its compliance with the insurance requirements. Any actual or alleged failure on the part of the DISTRICT to obtain proof of insurance required under this Agreement shall not in any way be construed to be a waiver of any right or remedy of the DISTRICT, in this or any regard.
- S. Notice of Cancellation/Non-Renewal/Material Reduction The insurance requirements hereunder are mandatory, and the DISTRICT may, at its sole and absolute discretion, terminate the services provided by CONTRACTOR, should CONTRACTOR breach its obligations to maintain the required coverage and limits set forth in this Agreement. No coverage required hereunder shall be cancelled, non-renewed or materially reduced in coverage or limits without the DISTRICT being provided at least thirty (30) days prior written notice, other than cancellation for the non-payment of premiums, in which event the DISTRICT shall be provided ten (10) days prior written notice. Replacement of coverage with another policy or insurer, without any lapse in coverage or any reduction of the stated requirements does not require notice beyond

submission to the DISTRICT of an updated Verification of Insurance which shall be met by having the CONTRACTOR's insurance broker or agent update, sign and return this EXHIBIT B.

**I. Workers' Compensation and Employer's Liability Insurance Coverage**

- A. Workers' Compensation insurance including Employer's Liability insurance with minimum limits as follows:
- Coverage A. Statutory Benefits Limits
  - Coverage B. Employer's Liability of not less than:
    - Bodily Injury by accident: \$1,000,000 each accident
    - Bodily Injury by disease: \$1,000,000 each employee
    - Bodily Injury by disease: \$1,000,000 policy limit
- B. CONTRACTOR's insurance shall be primary, and any insurance or self-insurance procured or maintained by the DISTRICT shall not be required to contribute to it.
- C. If there is an onsite exposure of injury to CONTRACTOR, subcontractor, and/or subcontractor's employees under the U.S. Longshore and Harbor Workers' Compensation Act, the Jones Act, or under laws, regulations or statutes applicable to maritime employees, coverage is required for such injuries or claims.
- D. If CONTRACTOR is self-employed, a sole proprietorship or a partnership, with no employees, and is exempt from carrying Workers' Compensation Insurance, CONTRACTOR must return the completed Verification of Insurance confirming that CONTRACTOR has no employees and is exempt from the State of California Workers' Compensation requirements.
- E. If CONTRACTOR is self-insured with respect to Workers' Compensation coverage, CONTRACTOR shall provide to the DISTRICT a Certificate of Consent to Self-Insure from the California Department of Industrial Relations. Such self-insurance shall meet the minimum limit requirements and shall waive subrogation rights in favor of the DISTRICT as stated below in section "F."
- F. Waiver of Subrogation. Workers' Compensation policies, including any applicable excess and umbrella insurance, must contain a waiver of subrogation endorsement providing that CONTRACTOR and each insurer waive any and all rights of recovery by subrogation, or otherwise, against the DISTRICT, its directors, board, and committee members, officers, officials, employees, agents, and volunteers. CONTRACTOR shall defend and pay any and all damages, fees, and costs, of any kind arising out of, pertaining to, or in any way relating to CONTRACTOR's failure to provide waiver of subrogation from the insurance carrier.

## INSURANCE VERIFICATION DOCUMENTS

### Verification of Workers' Compensation and Employer's Liability Insurance Coverage

☐ By checking the box and signing below, I hereby verify that the CONTRACTOR is exempt from the State of California's requirement to carry workers' compensation insurance.

As the CONTRACTOR's insurance broker/agent, I hereby verify that I have reviewed and confirmed that the CONTRACTOR carries workers' compensation insurance as required by this Agreement, including the relevant provisions applicable to all required insurance.

Self-Insured Retention Amount: \$ \_\_\_\_\_

Policy Limit: \$ \_\_\_\_\_

Policy Number: \_\_\_\_\_

Policy Period: from: \_\_\_\_\_ to: \_\_\_\_\_

Insurance Carrier Name: \_\_\_\_\_

Insurance Broker or Agent: Print Name: \_\_\_\_\_

Insurance Broker or Agent's Signature: \_\_\_\_\_

## **II. Commercial General Liability Insurance (“CGL”) Coverage**

- A. CONTRACTOR’s insurance shall be primary, and any insurance or self-insurance procured or maintained by the DISTRICT shall not be required to contribute to it.
- B. The insurance requirements under this Agreement shall be the greater of (1) the minimum coverage and limits specified in this Agreement; or (2) the broader coverage and maximum limits of coverage of any insurance policies or proceeds available to the Named Insured. It is agreed that these insurance requirements shall not in any way act to reduce coverage that is broader or that includes higher limits than the minimums required herein. No representation is made that the minimum insurance requirements of this Agreement are sufficient to cover the obligations of the CONTRACTOR.
- C. Minimum Requirements. CGL insurance with minimum per occurrence and aggregate limits as follows:
- |                                    |  |
|------------------------------------|--|
| Bodily Injury and Property Damage  | \$2,000,000 per occurrence & aggregate |
| Personal Injury/Advertising Injury | \$2,000,000 per occurrence & aggregate |
| Products/Completed Operations      | \$2,000,000 per occurrence & aggregate |
- D. Coverage must be on an occurrence basis.
- E. Coverage for Products, and Completed Operations, and Ongoing Operations must be included in the insurance policies and shall not contain any “prior work” coverage limitation or exclusion applicable to any Services performed by CONTRACTOR and/or subcontractor under this Agreement.
- F. Insurance policies and Additional Insured Endorsement(s) Coverage shall be included for all premises and operations in any way related to this Agreement.
- G. There will be no exclusion for explosions, collapse, or underground liability (XCU).
- H. Insurance policies and Additional Insured Endorsement(s) shall not exclude liability and damages to work arising out of, pertaining to, or in any way relating to services performed by Subcontractor on CONTRACTOR’s behalf.
- I. Contractual liability coverage shall be included and shall not limit, by any modification or endorsement, coverage for liabilities assumed by CONTRACTOR under this Agreement as an “insured contract.”
- J. Waiver of Subrogation. The policy shall be endorsed to include a Waiver of Subrogation ensuring that the CONTRACTOR and its insurer(s) waive any rights of recovery by subrogation, or otherwise, against the DISTRICT, its directors, board, and committee members, officers, officials, agents, volunteers, and employees. CONTRACTOR shall defend and pay any and all damages, fees, and costs, of any kind, arising out of, pertaining to, or in any way resulting from CONTRACTOR’s failure

to provide the waiver of subrogation from its insurance carrier(s).

- K. "Independent CONTRACTOR's Liability" shall not limit coverage for liability and/or damages arising out of, pertaining to, or in any way resulting from Services provided under this Agreement.

To the fullest extent permitted by law, the DISTRICT, its directors, board, and committee members, officers, officials, employees, agents, and volunteers must be covered as Additional Insureds on a primary and noncontributory basis on all underlying, excess and umbrella policies that shall be evidenced in each case by an endorsement. The Additional Insureds must be covered for liability arising in whole, or in part, from any premises, Products, Ongoing Operations, and Completed Operations by or on behalf of CONTRACTOR, in any way related to Services performed under this Agreement.

- L. A severability of interest provision must apply for all the Additional Insureds, ensuring that CONTRACTOR's insurance shall apply separately to each insured against whom a claim is made, or suit is brought, except with respect to the policies' limit(s).

### **III. Verification of Commercial General Liability (CGL) Insurance Coverage**

**As the CONTRACTOR'S insurance broker/agent, I hereby verify that I have reviewed and confirmed that the CONTRACTOR carries Commercial General Liability insurance, as required by this Agreement, including the relevant provisions applicable to all required insurance:**

**Self-Insured: Amount: \$**\_\_\_\_\_

**Policy Limit: Per Occurrence: \$**\_\_\_\_\_ **Aggregate: \$**\_\_\_\_\_

**Policy Number:** \_\_\_\_\_

**Policy Period: from:**\_\_\_\_\_ **to:** \_\_\_\_\_

**Insurance Carrier Name:**\_\_\_\_\_

**Insurance Broker or Agent: Print Name:**\_\_\_\_\_

**Insurance Broker or Agent's Signature:** \_\_\_\_\_

#### **IV. Business Auto Liability Insurance Coverage**

CONTRACTOR's insurance shall be primary, and any insurance or self-insurance procured or maintained by the DISTRICT shall not be required to contribute to it.

A. The insurance requirements under this Agreement shall be the greater of (1) the minimum coverage and limits specified in this Agreement; or (2) the broader coverage and maximum limits of coverage of any insurance policies or proceeds available to the Named Insured. It is agreed that these insurance requirements shall not in any way act to reduce coverage that is broader or that includes higher limits than the minimums required herein. No representation is made that the minimum insurance requirements of this Agreement are sufficient to cover the obligations of the CONTRACTOR.

B. Minimum Requirements. Auto insurance with minimum coverage and limits as follows:

Each Occurrence Limit (per accident) and in the Aggregate: \$2,000,000

Bodily Injury and Property Damage: \$2,000,000

C. Coverage must include either "owned, non-owned, and hired" autos or "any" automobile

This provision ensures the policy covers losses arising out of use of company-owned vehicles ("owned autos"), employee's personal autos ("non-owned autos" meaning not owned by company/insured) or autos that are rented or leased ("hired autos").

D. If CONTRACTOR is transporting hazardous materials or contaminants, evidence of the Motor Carrier Act Endorsement-hazardous materials clean-up (MCS-90, or its equivalent) must be provided.

E. If CONTRACTOR's Scope of Services under this Agreement exposes a potential pollution liability risk related to transport of potential pollutants, seepage, release, escape or discharge of any nature (threatened or actual) of pollutants into the environment arising out of, pertaining to, or in any way related to CONTRACTOR's and/or Subcontractor's performance under this Agreement, then Auto Liability Insurance policies must be endorsed to include Transportation Pollution Liability insurance. Alternatively, coverage may be provided under the CONTRACTOR's Pollution Liability Policies if such policy has no exclusions that would restrict coverage under this Agreement. Coverage shall also include leakage of fuel or other "pollutants" needed for the normal functioning of covered autos.

F. To the fullest extent permitted by law, the DISTRICT, its directors, board, and committee members, officers, officials, employees, agents, and volunteers must be covered as Additional Insureds on a primary and noncontributory basis on all underlying and excess and umbrella policies. The Additional Insureds must be covered for liability arising in whole, or in part, from any premises, Products, Ongoing Operations, and Completed Operations by or on behalf of CONTRACTOR, in any way related to Services performed under this Agreement.

- G. A severability of interest provision must apply for all the Additional Insureds, ensuring that CONTRACTOR's insurance shall apply separately to each insured against whom a claim is made, or suit is brought, except with respect to the insurer's limits of liability.

**Verification of Business Auto Liability Insurance Coverage**

**As the CONTRACTOR'S insurance broker/agent, I hereby verify that I have reviewed and confirmed that the CONTRACTOR carries Business Automobile Liability insurance, as required by this Agreement, including the relevant provisions applicable to all required insurance:**

**Self-Insured: Amount: \$** \_\_\_\_\_

**Policy Limit: Per Accident/Occurrence \$** \_\_\_\_\_ **Aggregate: \$** \_\_\_\_\_

**Policy Number:** \_\_\_\_\_

**Policy Period: from:** \_\_\_\_\_ **to:** \_\_\_\_\_

**Insurance Carrier Name:** \_\_\_\_\_

**Insurance Broker or Agent: Print Name:** \_\_\_\_\_

**Insurance Broker or Agent's Signature:** \_\_\_\_\_

## **V. Pollution Liability Insurance Coverage**

- A. CONTRACTOR's insurance shall be primary, and any insurance or self-insurance procured or maintained by the DISTRICT shall not be required to contribute to it.
- B. The insurance requirements under this Agreement shall be the greater of (1) the minimum coverage and limits specified in this Agreement; or (2) the broader coverage and maximum limits of coverage of any insurance policies or proceeds available to the Named Insured. It is agreed that these insurance requirements shall not in any way act to reduce coverage that is broader or that includes higher limits than the minimums required herein. No representation is made that the minimum insurance requirements of this Agreement are sufficient to cover the obligations of the CONTRACTOR.
- C. Minimum Requirements: Pollution Liability Insurance with minimum limits, as follows:
  - Each Claim or Occurrence Limit: \$2,000,000;
  - Aggregate Limit: \$2,000,000.
- D. Coverage must be included for bodily injury and property damage, including coverage for loss of use and/or diminution in property value, and for clean-up costs arising out of, pertaining to, or in any way related to the actual, alleged or threatened discharge, dispersal, seepage, migration, release or escape of contaminants or pollutants, arising out of, pertaining to, or in any way resulting from any Services performed by CONTRACTOR under this Agreement; including any transportation of hazardous wastes, hazardous materials, or contaminants.
- E. If Coverage is written on a claims-made form, the following shall apply:
  - 1. The retroactive date must be shown and must be before the date of the Agreement or the beginning of the Services.
  - 2. Insurance must be maintained, and evidence of insurance must be provided for a minimum of three (3) years after completion of the Services.
  - 3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the effective date of the Agreement, CONTRACTOR must purchase an extended period of coverage for a minimum of three (3) years after completion of the Services.
- F. Insurance shall include prior acts coverage sufficient to cover the services under this Agreement.

**Verification of Pollution Liability Insurance Coverage**

As the CONTRACTOR'S insurance broker/agent, I hereby verify that I have reviewed and confirmed that the CONTRACTOR carries Pollution Liability insurance, as required by this Agreement, including the relevant provisions applicable to all required insurance.

Self-Insured: Amount: \$ \_\_\_\_\_

Policy Limit: Per Claim \$ \_\_\_\_\_ Aggregate: \$ \_\_\_\_\_

Policy Number: \_\_\_\_\_

Policy Period: from: \_\_\_\_\_ to: \_\_\_\_\_

Insurance Carrier Name: \_\_\_\_\_

Insurance Broker or Agent: Print Name: \_\_\_\_\_

Insurance Broker or Agent's Signature: \_\_\_\_\_

# EXHIBIT C

## GENERAL REQUIREMENTS

Effective: June 9, 2021  
Supersedes: September 1, 2021

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#### 1. DEFINITIONS

The following terms shall be given the meaning shown, unless context requires otherwise or a unique meaning is otherwise specified.

- a. **"Change Order"** A Change Order is a written instrument used for modifying the contract with regards to the scope of Work, contract sum, and/or Contract Time. An approved

Change Order is a Change Order signed by the District. An executed Change Order is a Change Order signed by both the District and the Contractor.

- b. **“Contract”** means the agreement between the District and Contractor as memorialized in the Contract Documents.
- c. **“Business Entity”** means any individual, business, partnership, joint venture, corporation, sole proprietorship, or other private legal entity recognized by statute.
- d. **“Buyer”** means the District’s authorized contracting official.
- e. **“Contract Documents”** comprise the entire agreement between the District and the Contractor and can include the District’s contract form if used, any purchase order, RFP, RFQ or Contractor response packet, and any addenda, appendices and District approved changes or amendments. The Contract Documents are intended to be complementary and include all items necessary for the Contractor’s proper execution and completion of the Work. Any part of the Work not shown or mentioned in the Contract Documents that is reasonably implied, or is necessary or usual for proper performance of the Work, shall be provided by the Contractor at its expense.
- f. **“Contractor”** means the Business Entity with whom the District enters into a contractual agreement. Contractor shall be synonymous with “supplier”, “vendor”, “consultant” or other similar term.
- g. **“Day”** unless otherwise specified, days are calendar days, measured from midnight to the next midnight.
- h. **“District”** means the East Bay Municipal Utility District, its employees acting within the scope of their authority, and its authorized representatives.
- i. **“Goods”** means off the shelf software and all types of tangible personal property, including but not limited to materials, supplies, and equipment.
- j. **“Project Manager”** shall be the District designated individual responsible for administering and interpreting the terms and conditions of the Contract Documents, for matters relating to the Contractor’s performance under the Contract with the District, and for liaison and coordination between the District and Contractor.
- k. **“Work”** means all labor, tasks, materials, supplies, and equipment required to properly fulfill the Contractor’s obligations as required in the Contract Documents.
- l. **“Work Day”** Unless otherwise specified, work day includes all days of the year except Saturdays, Sundays and District holidays.

## 2. BOND

- a. When required in the District's bid or proposal solicitation documents, the Contractor to whom award is made shall furnish a good and approved faithful performance bond and/or payment bond within ten business days after receiving the forms for execution.
- b. The bonds shall be executed by a sufficient, admitted surety insurer (i.e.: as listed on website [http://interactive.web.insurance.ca.gov/webuser/idb\\_co\\_list\\$.startup](http://interactive.web.insurance.ca.gov/webuser/idb_co_list$.startup)) admitted to transact such business in California by the California Department of Insurance. After acceptance of the bond(s) by the District, a copy of the bond(s) will be returned to the Contractor.
- c. If, during the continuance of the Contract, any of the sureties, in the opinion of the District, are or become irresponsible, the District may require other or additional sureties, which the Contractor shall furnish to the satisfaction of the District within ten days after notice. If the Contractor fails to provide satisfactory sureties within the ten-day period, the Contract may be terminated for cause under Article 18.

### **3. CONTRACTOR'S FINANCIAL OBLIGATION**

The Contractor shall promptly make payments to all persons supplying labor and materials used in the execution of the contract.

### **4. SAMPLES OR SPECIMENS**

The Contractor shall submit samples or prepare test specimens of such materials to be furnished or used in the work as the Project Manager may require.

### **5. MATERIAL AND WORKMANSHIP**

- a. All goods and materials must be new and of the specified quality and equal to approved sample, if samples have been required. In the event any goods or materials furnished or services provided by the Contractor in the performance of the Contract fail to conform to the requirements, or to the sample submitted by the Contractor, the District may reject the same, and it shall become the duty of the Contractor to reclaim and remove the item promptly or to correct the performance of services, without expense to the District, and immediately replace all such rejected items with others conforming to the Contract. All work shall be done and completed in a thorough, workmanlike manner, notwithstanding any omission from these specifications or the drawings, and it shall be the duty of the Contractor to call attention to apparent errors or omissions and request instructions before proceeding with the work. The Project Manager may, by appropriate instructions, correct errors and supply omissions, which instructions shall be binding upon the Contractor as though contained in the original Contract Documents.
- b. All materials furnished and all Work must be satisfactory to the Project Manager. Work, material, or machinery not in accordance with the Contract Documents, in the opinion of the Project Manager, shall be made to conform.

**6. DEFECTIVE WORK**

The Contractor shall replace at its own expense any part of the work that has been improperly executed, as determined by the Project Manager. If Contractor refuses or neglects to replace such defective work, it may be replaced by the District at the expense of the Contractor, and its sureties shall be liable therefor.

**7. WARRANTY**

Contractor expressly warrants that all goods furnished will conform strictly with the specifications and requirements contained herein and with all approved submittals, samples and/or models and information contained or referenced therein, all affirmations of fact or promises, and will be new, of merchantable quality, free from defects in materials and workmanship, including but not limited to leaks, breaks, penetrations, imperfections, corrosion, deterioration, or other kinds of product deficiencies. Contractor expressly warrants that all goods to be furnished will be fit and sufficient for the purpose(s) intended. Contractor expressly warrants that all goods shall be delivered free from any security interest, lien or encumbrance of any kind, and free from any claim of infringement, copyright or other intellectual property violation, or other violation of laws, statutes, regulations, ordinances, rules, treaties, import restrictions, embargoes or other legal requirements. Contractor guarantees all products and services against faulty or inadequate design, manufacture, negligent or improper transport, handling, assembly, installation or testing, and further guaranties that there shall be strict compliance with all manufacturer guidelines, recommendations, and requirements, and that Contractor guaranties that it will conform to all requirements necessary to keep all manufacturer warranties and guarantees in full force and effect. These warranties and guarantees are inclusive of all parts, labor and equipment necessary to achieve strict conformance, and shall take precedence over any conflicting warranty or guarantee. These warranties and guaranties shall not be affected, limited, discharged or waived by any examination, inspection, delivery, acceptance, payment, course of dealing, course of performance, usage of trade, or termination for any reason and to any extent. In the absence of any conflicting language as to duration, which conflicting language will take precedence as being more specific, Contractor's aforesaid warranties and guarantees shall be in full force and effect for a period of one year from the date of acceptance by the District, but shall continue in full force and effect following notice from District of any warranty or guarantee issue, until such issue has been fully resolved to the satisfaction of District.

**8. NOT USED**

**9. SAFETY AND ACCIDENT PREVENTION**

In performing work under the Contract on District premises, Contractor shall conform to any specific safety requirements contained in the Contract or as required by law or regulation. Contractor shall take any additional precautions as the District may reasonably require for safety and accident prevention purposes. Any violation of such rules and requirements, unless promptly corrected, shall be grounds for termination of this Contract or Contractor's right to precede in accordance with the default provisions of the Contract Documents.

**10. CHARACTER OF WORKFORCE**

The Contractor shall employ none but skilled competent qualified personnel to perform the Work, and shall maintain discipline and order in the conduct of the Work at all times.

## **11. PREVAILING WAGES & DIR REGISTRATION**

- a. Please see [www.dir.ca.gov](http://www.dir.ca.gov) for further information regarding the below.
- b. All Contractors and Subcontractors of any tier bidding on, or offering to perform work on a public works project shall first be registered with the State Department of Industrial Relations (DIR) pursuant to Section 1725.5 of the Labor Code. No bid will be accepted nor any contract entered into without proof of the Contractor and Subcontractors' current registration with the DIR (LC § 1771.1).
- c. All public works projects awarded after January 1, 2015, are subject to compliance monitoring and enforcement by the DIR (LC § 1771.4) and all Contractors are required to post job site notices, "as prescribed by regulation" (LC § 1771.4).
- d. To the extent applicable, pursuant to Section 1773 of the Labor Code, the District has obtained from the Director of Industrial Relations of the State of California, the general prevailing rates of per diem wages and the general prevailing rates for holiday and overtime work in the locality in which the Work is to be performed, for each craft, classification, or type of worker needed to execute the contract. Pursuant to Section 1773.2 of the Labor Code, a copy of the prevailing wage rates is on file with the District and available for inspection by any interested party at [www.dir.ca.gov](http://www.dir.ca.gov).
- e. The holidays upon which such rates shall be paid shall be all holidays recognized in the collective bargaining agreement applicable to the particular craft, classification, or type of worker employed on the Work.
- f. The Contractor shall post a copy of the general prevailing rate of per diem wages at the jobsite pursuant to Section 1773.2 of the Labor Code.
- g. Pursuant to Section 1774 of the Labor Code, the Contractor and any of its Subcontractors shall not pay less than the specified prevailing rate of wages to all workers employed in the execution of the contract.
- h. As set forth with more specificity in Section 1773.1 of the Labor Code, "per diem" wages include employer payments for health and welfare, pension, vacation, travel, subsistence and, in certain instances, apprenticeship or other training programs, and shall be paid at the rate and in the amount spelled out in the pertinent prevailing wage determinations issued by the Director of Industrial Relations.
- i. The Contractor shall, as a penalty to the State or the District, forfeit not more than the maximum set forth in Section 1775 of the Labor Code for each calendar day, or portion thereof, for each worker paid less than the prevailing rates for the work or craft in which the worker is employed under the contract by the Contractor or by any Subcontractor under him. The difference between the prevailing wage rates and the amount paid to

each worker for each calendar day or portion thereof for which such worker was paid less than the stipulated prevailing wage rate shall be paid to such worker by the Contractor.

- j. The specified wage rates are minimum rates only and the District will not consider and shall not be liable for any claims for additional compensation made by the Contractor because of its payment of any wage rate in excess of the general prevailing rates. All disputes in regard to the payment of wages in excess of those specified herein shall be adjusted by the Contractor at its own expense.
- k. General prevailing wage determinations have expiration dates with either a single asterisk or a double asterisk. Pursuant to California Code of Regulations, Title 8, Section 16204, the single asterisk means that the general prevailing wage determination shall be in effect for the specified contract duration. The double asterisk means that the predetermined wage modification shall be paid after the expiration date. No adjustment in the Contract Sum will be made for the Contractor's payment of these predetermined wage modifications.

## **12. PAYROLL RECORDS & ELECTRONIC SUBMISSION**

If prevailing wages apply, Contractor and each Subcontractor, as appropriate, shall comply with the following:

- a. Contractor and each Subcontractor shall keep an accurate payroll record, showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker or other employee employed in connection with the Work. The payroll records shall be certified and shall be available for inspection in accordance with the provisions of Section 1776 of the Labor Code. Certified payroll records shall be on the forms provided by the DIR or contain the same information required on the Department's form.
- b. The Contractor shall submit for each week in which any contract Work is performed a copy of all payroll records to the Project Manager. The Contractor shall be responsible for submission of copies of payroll records of all Subcontractors.
- c. The Contractor or Subcontractor shall certify the payroll records as shown on the DIR form. In addition, the records shall be accompanied by a statement signed by the Contractor or Subcontractor certifying that the classifications truly reflect the Work performed and that the wage rates are not less than those required to be paid.
- d. For public works projects awarded on or after April 1, 2015, or that are still ongoing after April 1, 2016, no matter when awarded, each Contractor and Subcontractor shall furnish the certified payroll related records as more specifically described above and in Labor Code section 1776 directly to the Labor Commissioner (see LC § 1771.4). These records shall be provided to the Labor Commissioner at least monthly or more frequently if required by the terms of the Contract. For exception on projects covered by collective bargaining agreements like a PLA, please see Labor Code section 1771.4.

- e. In the event of noncompliance with the requirements of Section 1776 of the Labor Code, the Contractor shall have 10 days in which to comply subsequent to receipt of written notice specifying in what respects such Contractor must comply with said Section. Should noncompliance still be evident after such 10-day period, the Contractor shall, as a penalty to the State or the District, forfeit the amount set forth in Section 1776 of the Labor Code for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement, such penalties shall be withheld from progress payments then due.
- f. The Contractor and every Subcontractor shall post at the workplace and comply with all required wage related workplace postings. Copies of the required postings may be downloaded or ordered electronically from the Department of Industrial Relations website at <http://www.dir.ca.gov/wpnodb.html>.

### **13. HOURS OF LABOR**

Pursuant to the provisions of Sections 1810, et seq. of the Labor Code and any amendments thereof:

- a. Eight hours of labor constitutes a legal day's Work under the contract.
- b. The time of service of any worker employed upon the work shall be limited and restricted to eight hours during any one calendar day, and forty hours during any one calendar week except as provided in Article 13.iv below.
- c. The Contractor shall, as a penalty to the State or the District, forfeit the amount set forth in Section 1813 of the Labor Code for each worker employed in the execution of the contract by the Contractor or by any Subcontractor for each calendar day during which such worker is required or permitted to work more than eight hours in any calendar day and forty hours in any one calendar week in violation of this Article and the provisions of Labor Code, Sections 1810, et seq.
- d. Work performed by employees of the Contractor in excess of eight hours per day, and forty hours during any one calendar week, shall be permitted upon compensation for all hours worked in excess of eight hours per day at not less than one and one-half times the basic rate of pay.
- e. The Contractor and every Subcontractor shall keep an accurate record showing the name of and the actual hours worked each calendar day and each calendar week by each worker employed by him in connection with the Work; the record shall be kept open at all reasonable hours to the inspection of the District and to the Division of Labor Standards Enforcement of the State of California.

### **14. EMPLOYMENT OF APPRENTICES**

- a. In the performance of the contract, the Contractor and any Subcontractor shall comply with the provisions concerning the employment of apprentices in Section 1777.5 of the Labor Code and any amendments thereof.
- b. In the event the Contractor or any Subcontractor willfully fails to comply with the aforesaid section, such Contractor or Subcontractor shall be subject to the penalties for noncompliance in Labor Code, Section 1777.7.

## **15. CHANGES**

- a. Changes in the Work can only be made in writing signed by an authorized employee of the District. If the change causes an increase or decrease in the contract sum, or a change in the time for performance under the Contract, an adjustment may be made as determined by the Project Manager.
- b. The District reserves the right to make changes in the design of materials, equipment, or machinery, to make alterations or additions to or deviations or subtractions from the Contract and any specifications and drawings, to increase or decrease the required quantity of any item or portion of the Work or to omit any item or portion of the Work, as may be deemed by the Project Manager to be necessary or advisable and to order such extra work as may be determined by the Project Manager to be required for the proper execution and completion of the whole Work contemplated. Any such changes will be ordered in writing by the Project Manager. The determination of the Project Manager on all questions relating to changes, including extra work, shall be conclusive and binding.
- c. Prior to issuing an amendment or change to the Contract, the Project Manager may request that the Contractor submit a proposal covering the changes. Within 10 business days of receiving the request, the Contractor shall submit its proposal to the Project Manager of all costs associated with the proposed amendment or change and any request for an extension of Contract time. Contractor's proposal shall include detailed estimates with cost breakdowns, including labor, material, equipment, overhead, and profit. Labor shall be broken down into hours and rate per hour. If applicable, the proposal shall include a breakdown for off-site labor (including factory labor, engineering, etc.). The Contractor's proposal shall include an analysis of schedule impact when the Contractor is requesting an adjustment in contract time. The Contractor shall be responsible for any delay associated with its failure to submit its change proposal within the time specified. If the Project Manager decides not to issue an amendment or change after requesting a proposal from the Contractor, the Contractor will be notified in writing. The Contractor is not entitled to reimbursement for Change Order preparation costs if the Contractor's proposal is not accepted by the Project Manager.
- d. If the Contractor agrees with the terms and conditions of the approved Change Order, the Contractor shall indicate its acceptance by signing the original copy and returning it to the Project Manager within 10 Work Days after receipt or with reasonable promptness and in such sequence as to not delay the Work or activities of the District or of separate contractors, whichever is sooner. If notice of any change is required to be given to a surety by the provisions of any bond, the Contractor shall provide notice and the amount of each applicable bond shall be adjusted separately. Payment in

accordance with the terms and conditions set forth in the executed Change Order shall constitute full compensation for all Work included in the Change Order and the District will be released from any and all claims for direct, indirect, and impact expenses and additional time impact resulting from the Work. If the Contractor disagrees with the terms and conditions of the approved Change Order, the Contractor shall indicate specific areas of disagreement and return the approved Change Order to the Project Manager with a detailed written dispute. No payment will be made on the disputed work until the approved Change Order is returned to the Project Manager. However, whether or not the Contractor agrees with the terms and conditions of an approved Change Order, the Contractor shall immediately revise its sequence of operations as required to facilitate timely completion of the changed work and shall proceed with the revised work sequence.

- e. The Project Manager may, after having received a written cost quotation from the Contractor, order the Contractor, in writing, to proceed with the work prior to issuance of an approved Change Order through a change directive. The change directive will authorize the Contractor to proceed with the work subject to the cost quotation submitted by the Contractor. Within five days following receipt of the change directive, the Contractor shall submit a detailed change proposal documenting the amount of compensation. The Project Manager will review the change proposal and, at its option, will either issue an approved Change Order for the work or direct the Contractor to perform the work through Force Account. Until the method of compensation is determined and the approved Change Order is received, the Contractor shall keep full and complete time and material records of the cost of the ordered work and shall permit the Project Manager to have access to such records. An approved Change Order shall supersede any previously issued written change directive covering the same Work.

## **16. EFFECT OF EXTENSIONS OF TIME**

The granting, or acceptance, of extensions of time to complete the Work or furnish the labor, supplies, materials or equipment, or any one of the aforementioned, will not operate as a release of Contractor or the surety on Contractor's faithful performance bond.

## **17. DELAYS**

- a. The Contractor shall take reasonable precautions to foresee and prevent delays to the Work. When the Contractor foresees a delay event, and upon the occurrence of a delay event, the Contractor shall immediately notify the Project Manager of the probability or the actual occurrence of a delay, and its cause. With respect to all delays (compensable, excusable or inexcusable), the Contractor shall reschedule the Work and revise its operations, to the extent possible, to mitigate the effects of the delay. Within 15 days from the beginning of a delay the Contractor shall provide the Project Manager with a detailed written description of the delay, its cause, its impact and the Contractor's mitigation plans. Failure to provide the notification required above waives the Contractor's right to any additional time or compensation resulting from the delay for whatever cause. The Project Manager will investigate the facts and ascertain the extent of the delay, and the Project Manager's findings thereon shall be final and conclusive, except in the case of gross error. An extension of time must be approved by the Project Manager to be effective, but an extension of time, whether with or without consent of

the sureties, shall not release the sureties from their obligations, which shall remain in full force until the discharge of the contract.

- b. For inexcusable delays (delays caused by circumstances within the Contractor's control, the control of its subcontractors or supplies of any tier, or within the scope of the Contractor's contract responsibilities) the Contractor shall not be entitled to an extension of time or additional compensation for any loss, cost, damage, expense or liability resulting directly or indirectly from the inexcusable delay.
- c. For excusable delays (delays to completion of the Work within the time limits set forth in the Contract Documents directly caused by events beyond the control of both the Contractor and the District, which delay is not concurrent with an inexcusable delay and which could not have been avoided by the Contractor through reasonable mitigation measures the Project Manager will grant the Contractor an extension of time in an amount equal to the period of Excusable Delay based on the analysis of schedule impact and delay analysis diagram, which shall be the Contractor's sole and exclusive remedy for such delay. Excusable Delays shall include labor strikes, adverse weather as defined in Article 8.5, and Acts of God.
- d. For compensable delays (delays to completion of the Work within the time limits set forth in the Contract Documents that could not be avoided by Contractor mitigation, caused directly and solely by the District or by causes within the exclusive control of the District, and which were not concurrent with any other type of delay) the Project Manager will grant the Contractor an extension of the time to perform under the Contract and compensation in an amount that represents the Contractor's actual direct costs incurred as a direct result of the compensable delay. The Contractor may recover its direct costs only and may not recover (and waives) all other types of indirect, consequential, special and incidental damages.
- e. For concurrent delays (two or more independent causes of delay directly preventing the Contractor from completing the Work within the time limits set forth in the Contract Documents where the delays occur at the same time during all or a portion of the delay period being considered, and where each of the delays would have caused delay to the

Contractor even in the absence of any of the other delays, and none of the delays could have been avoided by Contractor mitigations) the following rules apply:

- i. One or more of the concurrent delays are excusable or compensable, then the period of concurrent delay will be treated as an excusable delay; and
- ii. All of the concurrent delays are inexcusable, then the period of concurrent delay will be inexcusable.

## **18. TERMINATION**

### **a. Termination by the District for Cause:**

- i. District may terminate the Contractor's right to proceed under the Contract, in whole or in part, for cause at any time after the occurrence of any of the following events, each of which constitutes a default:
  1. The Contractor becomes insolvent or files for relief under the bankruptcy laws of the United States.
  2. The Contractor makes a general assignment for the benefit of its creditors or fails to pay its debts as the same become due.
  3. A receiver is appointed to take charge of the Contractor's property.
  4. The Contractor fails to supply skilled supervisory personnel, an adequate number of properly skilled workers, proper materials, or necessary equipment to prosecute the Work in accordance with the Contract Documents.
  5. The Contractor fails to make progress so as to endanger performance of the Work within the contractually required time.
  6. The Contractor disregards legal requirements of agencies having jurisdiction over the Work, the Contractor, or the District.
  7. The Contractor fails to provide the District with a written plan to cure a District identified default within five business days after the District's request for a plan to cure; the District does not accept the Contractor's plan for curing its default; or the Contractor does not fully carry out an accepted plan to cure.

8. The Contractor abandons the Work. Abandonment is conclusively presumed when the District requests a written plan to cure a default and the Contractor does not submit the plan within five business days of the District's request.

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9. The Contractor materially fails to meet its obligations in accordance with the Contract Documents.
10. The Contractor is in default of any other material obligation under the Contract Documents.

- ii. If any of the above events occur, the District may, in its discretion, require that the Contractor submit a written plan to cure its default, which plan must be provided to the District within 5 business days of the request and must include a realistic, executable plan for curing the noted defaults.
- iii. Upon any of the occurrences referred to in Article 18.a.i. above, the District may, at its election and by notice to the Contractor, terminate the Contract in whole or in part; accept the assignment of any or all of the subcontracts; and then complete the Work by any method the District may deem expedient. If requested by the District, the Contractor shall remove any part or all of the Contractor's materials, supplies, equipment, tools, and machinery from the site of the Work within seven days of such request; and, if the Contractor fails to do so, the District may remove or store, and after 90 days sell, any of the same at the Contractor's expense.
- iv. No termination or action taken by the District after termination shall prejudice any other rights or remedies of the District provided by law or by the Contract Documents.
- v. Conversion: If, after termination for other than convenience, it is determined that the Contractor was not in default or material breach, or that the default or material breach was excusable, the rights and obligations of the parties shall be the same as if the termination had been issued for convenience pursuant to Article 18.b. below.

b. Termination by the District for Convenience:

- i. The District may, at its option, and for its convenience, terminate the Contract at any time by giving written notice to the Contractor specifying the effective date of termination. Upon such termination, the Contractor agrees to comply with the notice and further agrees to waive any claims

for damages, including loss of anticipated profits, on account of the termination; and, as the sole right and remedy of the Contractor, the District shall pay the Contractor as set forth below.

ii. Upon receipt of a notice of termination for convenience, the Contractor shall, unless the notice directs otherwise, do the following:

1. Immediately discontinue its performance of the Contract to the extent specified in the notice.
2. Place no further orders or subcontracts for materials, equipment, services, or facilities, except as may be necessary for completion of a portion of the Work that is not discontinued or that is necessary for an orderly cessation of the Work.
3. Promptly cancel, on the most favorable terms reasonably possible, all subcontracts to the extent they relate to the performance of the discontinued portion of the Work.
4. Thereafter, do only such Work as may be necessary to preserve and protect Work already in progress and to protect materials, plants, and equipment in transit to or on the site of performance.

iii. Upon such termination for convenience, the District will pay to the Contractor the sum of the following:

1. The amount of the contract sum allocable to the portion of the Work properly performed by the Contractor as of the effective date of termination, less sums previously paid to the Contractor.
2. Previously unpaid costs of any items delivered to the project site that were already fabricated for subsequent incorporation into the Work.
3. Any proven losses with respect to materials and equipment directly resulting from the termination.
4. Reasonable demobilization costs.

iv. The above reimbursement is the sole and exclusive remedy to which the Contractor is entitled in the event the contract is terminated for convenience; and the Contractor expressly waives any other claims, damages, demands, compensation or recovery related to this contract or

project. The Contractor agrees to sign a general release incorporating this waiver.

- c. Effect of Termination: Upon termination, the obligations of the Contract shall continue as to portions of the Work already performed and, subject to the Contractor's obligations under Article 18.b.ii, as to bona fide obligations assumed by the Contractor prior to the date of termination.
- d. Force Majeure: If the contract is suspended or terminated by the District because Contractor's performance is prevented or delayed by an event including an irresistible, superhuman cause, or by the act of public enemies of the State of California or of the United States ("Force Majeure"), the Contractor will be paid for Work performed prior to the Force Majeure event at either (i) the unit prices named in the Contract; or (ii) in the event no unit prices are named, a sum equal to the percentage of the total contract amount that matches the percentage of the total contract Work performed prior to the Force Majeure event.

## **19. DAMAGES**

All losses or damages to material or equipment to be furnished pursuant to the Contract

Documents occurring prior to receipt and final acceptance of the Work shall be sustained by the Contractor. The Contractor shall sustain all losses arising from unforeseen obstructions or difficulties, either natural or artificial, encountered in the prosecution of the Work, or from any action of the elements prior to final acceptance of the work, or from an act or omission on the part of the Contractor not authorized by the Contract Documents.

## **20. ORDER OF PRECEDENCE**

- a. In the case of conflicts, errors, or discrepancies in any of the Contract Documents, the order of precedence is as follows. Within the same order of precedence, specific requirements shall take precedence over general requirements.
  - i. Approved Change Orders.
  - ii. Addenda.
  - iii. RFQ or RFP.
  - iv. Referenced Standard Specifications and Drawings.
  - v. Contractor's Response Packet.
- b. With reference to drawings:
  - i. Numerical dimensions govern over scaled dimensions.
  - ii. Detailed drawings govern over general drawings.
  - iii. Addenda/Change Order drawings govern over contract drawings.
  - iv. Contract drawings govern over standard drawings.

- v. Notes apply only to the drawing where the notes appear, unless classified as “typical” or intended to apply elsewhere in which case they apply to all drawings where the conditions or circumstance noted occurs.
- vi. Typical details apply to all drawings unless a specific different detail is shown.

## **21. INDEMNIFICATION**

Contractor expressly agrees to defend, indemnify, and hold harmless DISTRICT and its Directors, officers, agents and employees from and against any and all loss, liability, expense, claims, suits, and damages, including attorneys’ fees, arising out of or resulting from Contractor's, its associates’, employees’, subconsultants’, or other agents’ negligent acts, errors or omissions, or willful misconduct, in the operation and/or performance under this Agreement.

## **22. PROHIBITION OF ASSIGNMENT**

The Contractor shall not assign, transfer, or otherwise dispose of any of its rights, duties or obligations under this Contract. This prohibition does not apply to the District. The District retains the right to assign this Contract in whole or in part at any time upon reasonable terms.

## **23. NEWS RELEASES**

The Contractor, its employees, subcontractors, and agents shall not refer to the District, or use any logos, images, or photographs of the District for any commercial purpose, including, but not limited to, advertising, promotion, or public relations, without the District's prior written consent. Such written consent shall not be required for the inclusion of the District's name on a customer list.

## **24. SEVERABILITY**

Should any part of the Contract be declared by a final decision by a court or tribunal of competent jurisdiction to be unconstitutional, invalid or beyond the authority of either party to enter into or carry out, such decision shall not affect the validity of the remainder of the Contract, which shall continue in full force and effect, provided that the remainder of the Contract can be interpreted to give effect to the intentions of the parties.

## **25. COVENANT AGAINST GRATUITIES**

The Contractor warrants that no gratuities (in the form of entertainment, gifts, or otherwise) were offered or given by the Contractor, or any agent or representative of the Contractor, to any officer or employee of the District with a view toward securing the Contract or securing favorable treatment with respect to any determinations concerning the performance of the Contract. For breach or violation of this warranty, the District shall have the right to terminate the Contract, either in whole or in part, and any loss or damage sustained by the District in procuring on the open market any items which Contractor agreed to supply shall be borne and paid for by the Contractor. The rights and remedies of the District provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or in equity.

**26. RIGHTS AND REMEDIES OF THE DISTRICT**

The rights and remedies of the District provided herein shall not be exclusive and are in addition to any other rights and remedies provided by law or under the Contract.

**27. WAIVER OF RIGHTS**

Any action or inaction by the District or the failure of the District on any occasion, to enforce any right or provision of the Contract, shall not be construed to be a waiver by the District of its rights and shall not prevent the District from enforcing such provision or right on any future occasion. Rights and remedies are cumulative and are in addition to any other rights or remedies that the District may have at law or in equity.

**28. CONFIDENTIALITY**

Contractor agrees to maintain in confidence and not disclose to any person or entity, without the District's prior written consent, any trade secret or confidential information, knowledge or data relating to the products, process, or operation of the District. Contractor further agrees to maintain in confidence and not to disclose to any person or entity, any data, information, technology, or material developed or obtained by Contractor during the term of the Contract. The covenants contained in this paragraph shall survive the termination of this Contract for whatever cause.



## EXHIBIT D

# IRAN CONTRACTING ACT CERTIFICATION

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Pursuant to Public Contract Code (PCC) § 2204, an Iran Contracting Act Certification is required for solicitations of goods or services of \$1,000,000 or more.

To submit a bid or proposal to East Bay Municipal Utility District (District), you must complete **ONLY ONE** of the following two paragraphs. To complete paragraph 1, check the corresponding box **and** complete the certification for paragraph 1. To complete paragraph 2, check the corresponding box and attach a copy of the written permission from the District.

- ☐ 1. We are not on the current list of persons engaged in investment activities in Iran created by the California Department of General Services ("DGS") pursuant to PCC § 2203(b), and we are not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

### CERTIFICATION FOR PARAGRAPH 1:

I, the official named below, CERTIFY UNDER PENALTY OF PERJURY, that I am duly authorized to legally bind the BIDDER/bidder to the clause in paragraph 1. This certification is made under the laws of the State of California.

Firm: \_\_\_\_\_

By: \_\_\_\_\_ Date: \_\_\_\_\_  
(Signature of Bidder)

Title: \_\_\_\_\_

Signed at: \_\_\_\_\_ County, State of: \_\_\_\_\_

**OR**

- ☐ 2. We have received written permission from the District to submit a bid or proposal pursuant to PCC § 2203(c) or (d). *A copy of the written permission from the District is included with our bid or proposal.*

# EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

## SCHEDULE I – LIQUID SODIUM HYPOCHLORITE FOR WATER

### SPECIFICATIONS FOR WATER

#### 1.1 THE REQUIREMENT

Under this schedule, the Contractor must furnish liquid sodium hypochlorite f.o.b. destination in accordance with AWWA B300-10.

#### 1.2.1 SPECIFICATION OF MATERIAL

Hypochlorite supplied under this contract shall be tested and certified as meeting these specifications and those of the American National Standards Institute/National Sanitation Foundation Standard 60 (ANSI/NSF Standard 60), Drinking Water Treatment Chemicals – Health Effects. It is the responsibility of the Contractor to inform the District that NSF certification has been revoked or lapsed within 24 hours of the time the Contractor received verbal or written notification. Loss of certification shall constitute sufficient grounds for immediate termination of the contract for cause.

Hypochlorite delivered under this contract shall have a minimum of 12.0 percent and a maximum of 16 weight percent NaOCl.

Hypochlorite delivered under this contract shall have a minimum of 1.19 and a maximum of 1.26 specific gravity at 20 degrees C.

Hypochlorite delivered under this contract shall have a maximum of 0.86 weight percent of NaOH.

Hypochlorite delivered under this contract shall meet the following contaminant concentration limits:

Iron	< 1.0 mg/L
Copper	< 0.2 mg/L
Bromate	<24 mg/L
Mercury	< 0.05 mg/L
Nickel	< 0.1 mg/L
Cobalt	< 0.1 mg/L
Chlorate	< 2,000 mg/L

Hypochlorite supplied under this contract shall be free of visible sediment.

Hypochlorite delivered under this contract shall be no older than three (3) days at the time of delivery.

1000 ml of the hypochlorite supplied under this contract shall pass through a 0.8 micron filter (Millipore, type AA) under vacuum (25 inches Hg) within five minutes. Water Treatment operators will perform this test routinely prior to accepting any delivery.

Hypochlorite supplied under this contract shall not cause excessive scaling of feed lines when combined with carriage water. Excessive scaling is defined as “any plugging of, or precipitation in, the hypochlorite solution lines that causes disruption of flow or an increase in back pressure.”

Contractor must be capable of making deliveries within three (3) working days after receipt of order. In an emergency, the Contractor may be required to deliver within 24 hours.

# EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

## 1.3 CERTIFICATION

Bidders shall submit with their bids an analysis of the material proposed to be delivered to the District. The analysis shall be performed by an environmental laboratory that is certified by one of the following methods to report regulatory data:

- a. Through an individual state program where the Environmental Protection Agency (EPA) has approved the state certification program and delegated primacy to the state.
- b. Through a national program, National Environmental Laboratory Accreditation Program (NELAP).
- c. Through direct accreditations by EPA in states that do not have a state Certification program where EPA retains primacy.

The laboratory shall provide all results required in these specifications to confirm compliance.

The analytical method used for anions shall be EPA 300.1, and the method for metals shall be EPA 200.8. In addition to the analysis done at the time of bid submission, contractor shall collect one sample of the product quarterly and have it analyzed for the compounds listed in Section 1.2 and submit the results to the District. Charges for the laboratory report shall be included in the bid price.

## 1.4 SAMPLING AND TESTING

Sampling and testing shall be in accordance with EPA and AWWA B300-10 standards and in accordance with the document titled "The Weight Percent Determination of Sodium Hypochlorite, Sodium Hydroxide, Sodium Carbonate, and Sodium Chlorate in Liquid Bleach" distributed by Powell Fabrication and Manufacturing, Inc.

At the sole option of the District, the Contractor's delivery personnel (driver) may be asked to collect a sample of hypochlorite before the shipment is unloaded. In this case, the District will supply the sample container and the driver shall collect the sample from the tank truck and turn it over to the District. The sample shall be considered representative of the lot.

The District reserves the right to subject samples of the hypochlorite to analysis to ensure that it meets these specifications. If the hypochlorite does not meet specifications, the District has the option of requiring the Contractor to remove and replace any and all rejected hypochlorite immediately upon notification. No payment shall be made for hypochlorite that is rejected.

Any lot tested by the District that fails to comply with the specifications shall constitute grounds for rejection of that lot. Repeated failures by Contractor to comply with the specifications shall constitute grounds for termination of the contract by the District for cause.

## 1.5 DELIVERY REQUIREMENTS AND LOCATIONS

- A. In an emergency, the Contractor may be required to deliver within 24 hours.
- B. The Contractor shall be responsible for any spills resulting from the failure of its or its subcontractor's delivery equipment or from failure of attendant delivery personnel in the proper performance of their duties. Proper performance shall require attendant delivery personnel's constant inspection and observation of unloading operations and knowledgeable response to problems or emergencies which would most commonly be expected to occur.

The District reserves the right to refuse any and all deliveries made with equipment which is poorly maintained.

- C. The tanks or trailers shall be clean and free of residue from previous loads which might contaminate the Contractor product or impede the unloading process. It is the Contractor's responsibility to verify the cleanliness of the transporting equipment before loading. All appurtenant valves, pumps, and discharge hoses used for the delivery of sodium hypochlorite shall be clean and free from contaminating material. All material used in the manufacturing and

## EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

delivery will be chemically compatible with sodium hypochlorite. The District may reject a load if the equipment is not properly cleaned.

- D. The Contractor shall furnish a District-approved, leak-free connection device between his pumper and the District's intake receptacle. The Contractor shall observe the entire filling operation at each water treatment plant and shall immediately report any spills caused during the filling operations to the on-duty Water Treatment Plant Operator. The contractor shall take immediate and appropriate actions to cleanup any spilled liquid sodium hypochlorite, and shall, at no charge to the District, haul away and lawfully dispose of spilled waste material. District property shall not be used for such disposal. If the spill is not cleaned up, the District will hire a certified hazardous material handling company to clean up the spill, and the cost for such service will be charged to the Contractor and deducted from amounts due to the Contractor.
- E. Bulk quantities of product shall be secured by employing a uniquely-numbered tamper-evident seal(s). The seal number shall be recorded and disclosed on shipping documents such as the bill of lading. Seals shall be inspected upon receipt of product by the District, and evidence of tampering or removal may be cause for refusal of the load.
- F. Deliveries shall be made within two (2) calendar days, including weekends and holidays, after receipt of order. Delivery hours are between 7:00 a.m. and 3:00 p.m. Entry to the Water Treatment Plants for chemical deliveries before or after normal business hours (7:00 a.m. to 3:00 p.m.) is prohibited.

Operators receiving calls from drivers on route after normal business hours are authorized to refuse deliveries until normal business hours.

Delivery shall be made to:

1. Six (6) 6,000-gallon tanks, Orinda Water Treatment Plant, 190 Camino Pablo, Orinda, CA;
2. Two (2) 5,000-gallon tanks, San Pablo Water Treatment Plant, 300 Berkeley Park Blvd., Kensington, CA;
3. Two (2) 10,000-gallon tanks, Upper San Leandro Water Treatment Plant, 7700 Greenly Avenue, Oakland, CA;
4. Two (2) 10,000-gallon tanks, Sobrante Water Treatment Plant, 5500 Amend Road, El Sobrante, CA;
5. Two (2) 12,000-gallon tanks, Pardee Water Treatment, 3535 Pardee Dam Road, Valley Springs, CA;
6. Four (4) 5,000-gallon tanks, Bixler Water Treatment, Orwood Road at Bixler Road, Bixler, CA;
7. Five (5) 12,000-gallon tanks, Walnut Creek Treatment Plant, 2201 Larkey Lane, Walnut Creek, CA.
8. Two (2) 4,000-gallon tanks, Lafayette Water Treatment Plant, 3848 Mt. Diablo Boulevard, Lafayette, CA.

### 1.6 ANALYSIS REPORT

An analysis report shall be submitted for each sodium hypochlorite delivery to the District. This analysis shall include the date of manufacture of the load delivered and shall contain the following data:

Percent by Weight and Pounds Per Gallon:

Active Chlorine  
Excess NaOH  
Excess NaCO<sub>3</sub>

No deliveries will be accepted by the District unless accompanied by said analysis report for the specific batch or lot of chemical delivered.

Charges for the certified laboratory report shall be included in the bid price.

# EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

## 1.7 TAXABILITY

Sales or use taxes are not applicable to this material, per California Department of Tax and Fee Administration's Sales and Use Annotation 275.0280 Chemicals.

## SCHEDULE II – LIQUID SODIUM HYPOCHLORITE

### SPECIFICATIONS FOR WASTEWATER

## 2.1 THE REQUIREMENT

Under this schedule, it is required that sodium hypochlorite be furnished in accordance with these specifications.

## 2.2 SPECIFICATIONS OF MATERIAL

The sodium hypochlorite shall be liquid, shall be in accordance with AWWA Standard B300-04, shall be certified to NSF/ANSI Standard 60, and shall meet the following specifications:

Parameter	Specification
% sodium hypochlorite by weight	12.5 – 15
Specific gravity	~1.195
% free alkalinity (as NaOH) by weight	0.2% minimum, 1% maximum
Appearance	Clear yellowish-green liquid
Available Chlorine	11.9-14.25

## 2.3 CERTIFICATION

Bidders shall submit with their bids an analysis of the material proposed to be delivered to the District. The analysis shall be performed by an environmental laboratory that is certified by one of the following methods to report regulatory data:

- Through an individual state program where the Environmental Protection Agency (EPA) has approved the state certification program and delegated primacy to the state.
- Through a national program, National Environmental Laboratory Accreditation Program (NELAP).
- Through direct accreditations by EPA in states that do not have a state Certification program where EPA retains primacy.

The laboratory shall provide all results required in these specifications to confirm compliance.

The analysis shall include those specific contaminants listed under PURITY REQUIREMENTS in the specifications. Impurity limitations imposed by reference to AWWA Specifications apply unless specifically superseded under PURITY REQUIREMENTS of the specifications. **FAILURE TO SUBMIT CHEMICAL ANALYSES WITH THE BID MAY RESULT IN THE BID BEING DEEMED NONRESPONSIVE.**

## 2.4 PURITY REQUIREMENTS

The sodium hypochlorite shall not exceed the following concentrations of impurities:

Parameter	Maximum Allowable Value
Iron	2 ppm
Copper	0.1 ppm
Nickel	0.1 ppm

## EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

Manganese	0.1 ppm
Insolubles	0.15 % by weight
Suspended Solids Quality Test using Vacuum Filtration	3 minutes

### 2.5 DELIVERY REQUIREMENTS AND LOCATIONS

Bulk deliveries shall be f.o.b. destination to the locations listed below and at the **approximate** frequency indicated below. Under normal conditions, deliveries shall be made within two (2) days, including weekends and holidays, after receipt of order. However, under conditions such as high demand, peak flow, low inventory, or any other critical-need situation as defined by the District, deliveries shall be made within 24 hours of receipt of order. See Section 13.9 Parts A and C for additional delivery instructions applicable to wastewater facilities.

Weigh-in and weigh-out of delivery trucks, using a certified weigh station, is required for deliveries of this material to the District. Any charges for such weigh-ins and weigh-outs shall be included in the bidding price and not as a separate charge to the District. Weight tags proving loaded weight and empty weight for each load delivered shall be furnished to this address: "EBMUD Wastewater, Wastewater Operations Section (MS 59), P.O. Box 24055, Oakland, CA 94623-1055."

Any spills caused during the filling operations shall be reported immediately to the on-duty Plant Operator. The Contractor shall take immediate and appropriate actions to clean up any spilled sodium hypochlorite. If the spill is not cleaned up, the District will hire a certified hazardous material handling company to clean up the spill and the cost for such service will be charged to the Contractor, his surety, or deducted from amounts due to the Contractor.

#### **One to Three Times per Day (Normal) to 15 Times per Day (Peak, assuming 4000 gal per delivery)**

Main Wastewater Treatment Plant  
2020 Wake Avenue  
Oakland, CA  
Three (3) - 69,000-gallon storage tanks  
Delivery hours: 24/7/365

#### **Weekly**

North Richmond Water Reclamation Plant  
105 Brookside Drive  
Richmond, CA  
One (1) - 5,400-gallon storage tank  
Delivery hours: 7:00 a.m. – 1:00 p.m.

#### **Twice Monthly**

District Pumping Station C (Krusi Park)  
Otis Drive and Court Street  
Alameda, CA  
One (1) - 3,500-gallon storage tank  
Delivery hours: 7:00 a.m. - Noon

District Pump Station M  
Packet Landing Road  
Bay Farm Island  
Alameda, CA  
One (1) - 4,000-gallon storage tank  
Delivery hours: 9:00 a.m. – 11:00 a.m.

District Pump Station R

# EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

1001 West Red Line Avenue  
Alameda, CA  
One (1) – 6,000-gallon tank  
Delivery hours: 7:00 a.m. – 12:00 Noon

District Pump Station F  
2000 Webster Street  
Alameda, CA  
One (1) – 6,000 gallon storage tank  
Delivery hours: 7:00 a.m. – 8:00 a.m.

## 2.6 CERTIFICATE REQUIRED WITH DELIVERIES

- A. A certificate from the manufacturer shall be submitted for each delivery of product to the District, and shall contain the following:
- Percent by weight and equivalent pounds per unit of available active ingredient based on gravity/temperature correction.
  - Certificate of Analysis.
- B. No deliveries will be accepted by the District unless accompanied by said Certificate for the specific batch or lot of chemicals delivered.
- C. Charges for compliance with this Section shall be included in the bid price.

## 2.7 MINIMUM ORDER

Deliveries shall be available in minimum quantities of 1,000 gallons.

## 2.8 TAXABILITY

Sales or use taxes are applicable to this material but should not be included in the bid price.

## **SCHEDULE III – LIQUID SODIUM HYPOCHLORITE**

### **SPECIFICATIONS FOR WET WEATHER STATIONS**

#### 3.1 THE REQUIREMENT

Under this schedule, it is required that sodium hypochlorite be furnished in accordance with these specifications.

#### 3.2 SPECIFICATIONS OF MATERIAL

The sodium hypochlorite shall be liquid and shall contain between 12.5 and 15% sodium hypochlorite by weight with 11.9 to 14.25% available chlorine. It shall be in accordance with AWWA Standard B300-04 and shall be certified to NSF/ANSI Standard 60, except that it shall contain an additional 3% sodium hydroxide.

#### 3.3 CERTIFICATION

Bidders shall submit with their bids an analysis of the material proposed to be delivered to the District. The analysis shall be performed by an environmental laboratory that is certified by one of the following methods to report regulatory data:

## EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

- a. Through an individual state program where the Environmental Protection Agency (EPA) has approved the state certification program and delegated primacy to the state.
- b. Through a national program, National Environmental Laboratory Accreditation Program (NELAP).
- c. Through direct accreditations by EPA in states that do not have a state Certification program where EPA retains primacy.

The laboratory shall provide all results required in these specifications to confirm compliance.

The analysis shall include those specific contaminants listed under PURITY REQUIREMENTS in the specifications. Impurity limitations imposed by reference to AWWA Specifications apply unless specifically superseded under PURITY REQUIREMENTS of the specifications. **FAILURE TO SUBMIT CHEMICAL ANALYSES WITH THE BID MAY RESULT IN THE BID BEING DEEMED NONRESPONSIVE.**

### 3.4 PURITY REQUIREMENTS

The sodium hypochlorite shall not exceed the following concentrations of impurities:

Parameter	Maximum Allowable Value
Iron	2 ppm
Copper	0.1 ppm
Nickel	0.1 ppm
Manganese	0.1 ppm
Insolubles	0.15 % by weight
Suspended Solids Quality Test using Vacuum Filtration	3 minutes

### 3.5 DELIVERY REQUIREMENTS AND LOCATIONS

Bulk deliveries shall be f.o.b. destination to the locations listed below and at the **approximate** frequency indicated below. Under normal conditions, deliveries shall be made within two (2) days, including weekends and holidays, after receipt of order. However, under conditions such as high demand, peak flow, low inventory, or any other critical-need situation, as defined by the District, deliveries shall be made within 24 hours of receipt of order. See Section 13.9 Parts A and C for additional delivery instructions applicable to wastewater facilities.

Weigh-in and weigh-out of delivery trucks, using a certified weigh station, is required for deliveries of this material to the District. Any charges for such weigh-ins and weigh-outs shall be included in the bidding price and not as a separate charge to the District. Weight tags proving loaded weight and empty weight for each load delivered shall be furnished to this address: "EBMUD Wastewater, Wastewater Operations Section (MS 59), P.O. Box 24055, Oakland, CA 94623-1055."

Any spills caused during the filling operations shall be reported immediately to the on-duty Plant Operator. The Contractor shall take immediate and appropriate actions to clean up any spilled sodium hypochlorite. If the spill is not cleaned up, the District will hire a certified hazardous material handling company to clean up the spill and the cost for such service will be charged to the Contractor, his surety, or deducted from amounts due to the Contractor.

#### **During winter months only, with delivery anytime**

Pt. Isabel Wet Weather Treatment Facility  
2755 Isabel Street  
Richmond, CA  
Three (3) – 13,000 – gallon storage tanks

Oakport Wet Weather Station  
5597 Oakport Street

# EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

Oakland, CA  
Three (3) – 9,200 – gallon storage tanks

San Antonio Creek Wet Weather Treatment Facility  
215 Fifth Avenue  
Oakland, CA  
Two (2) – 5,000 – gallon storage tanks

## 3.6 CERTIFICATE REQUIRED WITH DELIVERIES

- A. A certificate from the manufacturer shall be submitted for each delivery of product to the District, and shall contain the following:
- Percent by weight and equivalent pounds per unit of available active ingredient based on gravity/temperature correction.
  - Certificate of Analysis.
- B. No deliveries will be accepted by the District unless accompanied by said Certificate for the specific batch or lot of chemicals delivered.
- C. Charges for compliance with this Section shall be included in the bid price.

## 3.7 MINIMUM ORDER

Deliveries shall be available in minimum quantities of 1,000 gallons. See Section 13.9 for Delivery by Tank Truck or Trailer.

## 3.8 TAXABILITY

Sales or use taxes are applicable to this material but should not be included in the bid price.

## **SCHEDULE IV – CAUSTIC SODA**

### **SPECIFICATIONS FOR WATER**

#### 4.1 REQUIREMENT

Under this schedule, it is required that caustic soda be furnished in accordance with these specifications.

#### 4.2 SPECIFICATIONS OF MATERIAL

The liquid caustic soda supplied under these specifications shall comply with AWWA Standard B501-08 for caustic soda except for the following solution concentration specification.

Liquid caustic soda supplied under this contract shall be tested and certified as meeting these specifications and those of the American national Standards Institute/National Sanitation Foundation Standard 60 (ANSI/NSF Standard 60) for Drinking Water Treatment Chemicals – Health Effects. It is the responsibility of the Contractor to inform the District that NSF certification has been revoked or lapsed within 24 hours of the time the Contractor received verbal or written notification. Loss of certification shall constitute sufficient grounds for immediate termination of the contract for cause.

Liquid caustic soda supplied under these specifications shall contain approximately 50% sodium hydroxide (NaOH).

# EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

## 4.3 PURITY REQUIREMENTS

Sodium hydroxide (NaOH) shall not contain mercury (Hg) in excess of 4 mg/Kg (4 ppm). Sampling, preparation, and analysis shall be in accordance with NSF Standard 60.

## 4.4 CERTIFICATION

Bidders shall submit with their bids an analysis of the material proposed to be delivered to the District. The analysis shall be performed by an environmental laboratory that is certified by one of the following methods to report regulatory data:

- a. Through an individual state program where the Environmental Protection Agency (EPA) has approved the state certification program and delegated primacy to the state.
- b. Through a national program, National Environmental Laboratory Accreditation Program (NELAP).
- c. Through direct accreditations by EPA in states that do not have a state Certification program where EPA retains primacy.

The laboratory shall provide all results required in these specifications to confirm compliance.

## 4.5 DELIVERY REQUIREMENTS AND LOCATIONS

- A. The Contractor shall be responsible for any spills resulting from the failure of its or its subcontractor's delivery equipment or from failure of attendant delivery personnel in the proper performance of their duties. Proper performance shall require attendant delivery personnel's constant inspection and observation of unloading operations and knowledgeable response to problems or emergencies which would most commonly be expected to occur.

The District reserves the right to refuse any and all deliveries made with equipment which is poorly maintained.

- B. The tanks used to transport the caustic soda shall be clean and free from residue from previous loads which might contaminate the Contractor's product or impede the unloading process. It shall be the Contractor's responsibility to verify the cleanliness of the transporting equipment before loading. The Contractor will be required to furnish a District-approved, leak-free connection device between the delivery vehicle and the District intake receptacle. The Contractor shall observe the entire filling operation and shall be responsible for any spillage due to such operation.
- C. Any spills caused during the filling operations shall be reported immediately to the on-duty Water Treatment Plant Operator. The Contractor shall take immediate and appropriate actions to clean up any spilled caustic soda, and shall, at no charge to the District, haul away and lawfully dispose of spilled waste material. District property shall not be used for such disposal. If the spill is not cleaned up, the District will hire a certified hazardous material handling company to clean up the spill and the cost for such service will be charged to the Contractor, his surety, or deducted from amounts due to the contractor. No leakage to the atmosphere or environment will be permitted.
- D. Bulk quantities of product shall be secured by employing a uniquely-numbered tamper-evident seal(s). The seal number shall be recorded and disclosed on shipping documents such as the bill of lading. Seals shall be inspected upon receipt of product by the District, and evidence of tampering or removal may be cause for refusal of the load.
- E. Deliveries shall be made within two (2) calendar days, including weekends and holidays, after receipt of order. Delivery hours are 24/7/365.

Delivery shall be made f.o.b. destination to:

1. Two (2) 6,500-gallon-capacity storage tanks, Sobrante Water Treatment Plant, 5150 Amend Road, El Sobrante, CA.

## EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

2. Two (2) 6,000-gallon-capacity storage tanks, Upper San Leandro Water Treatment Plant, 7700 Greenly Drive, Oakland, CA.
3. Two (2) 8,000-gallon-capacity storage tanks, San Pablo Water Treatment Plant, 300 Berkeley Park Boulevard, Kensington, CA.
4. Two (2) 8,000-gallon-capacity storage tank, Walnut Creek Water Treatment Plant, 2201 Larkey Lane, Walnut Creek, CA.
5. Two (2) 8,500-gallon-capacity storage tanks at Orinda Water Treatment Plant, 190 Camino Pablo, Orinda, CA.
6. Two (2) 6,000-gallon-capacity storage tanks, Lafayette Water Treatment Plant, 3848 Mt. Diablo Boulevard, Lafayette, CA.

### 4.6 CERTIFICATE REQUIRED WITH DELIVERIES

- A. A certificate from the manufacturer shall be submitted for each delivery of product to the District, and shall contain the following:
  - Percent by weight and equivalent pounds per unit of available active ingredient based on gravity/temperature correction.
  - Certificate of Analysis.
- B. No deliveries will be accepted by the District unless accompanied by said Certificate for the specific batch or lot of chemicals delivered.
- C. Charges for compliance with this Section shall be included in the bid price.

### 4.7 MINIMUM ORDER

Deliveries shall be in tank trucks or trailers with minimum deliveries of 2,000 gallons.

### 4.8 TAXABILITY

Sales or use taxes are not applicable to this material, per California Department of Tax and Fee Administration's Sales and Use Annotation 275.0280 Chemicals.

## **SCHEDULE V – CAUSTIC SODA**

### **SPECIFICATIONS FOR WASTEWATER**

#### 5.1 THE REQUIREMENT

Under this schedule, it is required that caustic soda be furnished f.o.b. destination in accordance with these specifications.

#### 5.2 SPECIFICATIONS OF MATERIAL

The liquid caustic soda supplied under these specifications shall comply with AWWA Standard B501-93 for caustic soda except for the following solution concentration specification.

Liquid caustic soda supplied under these specifications shall contain approximately 50% sodium hydroxide (NaOH).

# EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

## 5.3 CERTIFICATION

Bidders shall submit with their bids an analysis of the material proposed to be delivered to the District. The analysis shall be performed by an environmental laboratory that is certified by one of the following methods to report regulatory data:

- a. Through an individual state program where the Environmental Protection Agency (EPA) has approved the state certification program and delegated primacy to the state.
- b. Through a national program, National Environmental Laboratory Accreditation Program (NELAP).
- c. Through direct accreditations by EPA in states that do not have a state Certification program where EPA retains primacy.

The laboratory shall provide all results required in these specifications to confirm compliance.

The analysis shall include those specific contaminants listed under PURITY REQUIREMENTS in the specifications. Impurity limitations imposed by reference to AWWA Specifications apply unless specifically superseded under PURITY REQUIREMENTS of the specifications. **FAILURE TO SUBMIT CHEMICAL ANALYSES WITH THE BID MAY RESULT IN THE BID BEING DEEMED NONRESPONSIVE.**

## 5.4 PURITY REQUIREMENTS

Sodium hydroxide (NaOH) shall not contain mercury (Hg) in excess of 4 mg/Kg (4 ppm). Sampling, preparation, and analysis shall be in accordance with NSF Standard 60.

## 5.5 DELIVERY REQUIREMENTS AND LOCATION

Deliveries shall be made within two (2) days, including weekends and holidays, after receipt of order between the hours of 7:00 a.m. and 1:00 p.m. See Section 13.9 Parts A and C for additional delivery instructions applicable to wastewater facilities.

Weigh-in and weigh-out of delivery trucks, using a certified weigh station, is required for deliveries of this material to the District. Any charges for such weigh-ins and weigh-outs shall be included in the bidding price and not as a separate charge to the District. Weight tags proving loaded weight and empty weight for each load delivered shall be furnished to this address: "EBMUD Wastewater, Wastewater Operations Section (MS 59), PO Box 24055, Oakland, CA 94623-1055."

Delivery shall be made f.o.b. destination to:

North Richmond Water Reclamation Plant, 105 Brookside Drive, Richmond, CA 94801. There are two 6,000-gallon tanks.

## 5.6 CERTIFICATE REQUIRED WITH DELIVERIES

- A. A certificate from the manufacturer shall be submitted for each delivery of product to the District, and shall contain the following:
  - Percent by weight and equivalent pounds per unit of available active ingredient based on gravity/temperature correction.
  - Certificate of Analysis.
- B. No deliveries will be accepted by the District unless accompanied by said Certificate for the specific batch or lot of chemicals delivered.
- C. Charges for compliance with this Section shall be included in the bid price.

# EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

## 5.7 MINIMUM ORDER

Deliveries shall be in tank trucks or trailers with minimum deliveries of 2,000 gallons. Vendor to assume full truck loads. No need for partial deliveries.

## 5.11 TAXABILITY

Sales or use taxes are applicable to this material but should not be included in the bid price.

## SCHEDULE VI - SODIUM BISULFITE

### SPECIFICATIONS FOR WATER

## 6.1 THE REQUIREMENT

Under this schedule, it is required that sodium bisulfite be furnished in accordance with these specifications.

## 6.2 SPECIFICATIONS OF MATERIAL

Sodium bisulfite ( $\text{NaHSO}_2$ ) shall comply with the AWWA specification B601-05, except that:

- A. the sodium bisulfite solution concentration shall be between 23 and 27%  $\text{NaHSO}_3$  (by weight).
- B. the sodium bisulfite solution shall have a minimum available sulfur dioxide equivalent of 15% (as  $\text{SO}_2$ ).

Sodium Bisulfite supplied under this contract shall be tested and certified as meeting these specifications and those of the American National Standards Institute/National Sanitation Foundation Standard 60 (ANSI/NSF Standard 60) for Drinking Water Treatment Chemicals-Health Effects. It is the responsibility of the Contractor to inform the District that NSF certification has been revoked or lapsed within 24 hours of the time the Contractor received verbal or written notification. Loss of certification shall constitute sufficient grounds for immediate termination of the contract for cause.

## 6.3 PURITY REQUIREMENTS

The sodium bisulfite solution shall have no more than 90 ppm of suspended matter. Sampling, preparation, and analysis shall be in accordance with NSF Standard 60.

**Each delivery shall be accompanied by a certificate of compliance and certified analysis including equivalent pounds of  $\text{SO}_2$  per gallon, or delivery may be refused, and payment delayed.**

## 6.4 CERTIFICATION

Bidders shall submit with their bids an analysis of the material proposed to be delivered to the District. The analysis shall be performed by an environmental laboratory that is certified by one of the following methods to report regulatory data:

- a. Through an individual state program where the Environmental Protection Agency (EPA) has approved the state certification program and delegated primacy to the state.
- b. Through a national program, National Environmental Laboratory Accreditation Program (NELAP).
- c. Through direct accreditation by EPA in states that do not have a state Certification program where EPA retains primacy.

The laboratory shall provide all results required in these specifications to confirm compliance.

# EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

## 6.4 DELIVERY REQUIREMENTS AND LOCATION

- A. The Contractor shall be responsible for any spills resulting from the failure of its or its subcontractor's delivery equipment or from failure of attendant delivery personnel in the proper performance of their duties. Proper performance shall require attendant delivery personnel's constant inspection and observation of unloading operations and knowledgeable response to problems or emergencies which would most commonly be expected to occur.

The District reserves the right to refuse any and all deliveries made with equipment which is poorly maintained.

- B. The tanks or trailers should be rubber lined and shall be free and clean of residue from previous loads which might contaminate the Contractor's product or impede the unloading process. It shall be the Contractor's responsibility to verify the cleanliness of the transporting equipment before loading. The Contractor will be required to furnish a District-approved, leak-free connection device between his pumper and the District's intake receptacle.
- C. The Contractor shall observe the entire filling operation at each water treatment plant and shall immediately report any spills caused during the filling operations to the on-duty Water Treatment Plant Operator. The Contractor shall take immediate and appropriate actions to clean up any spilled sodium bisulfite, and shall, at no charge to the District, haul away and lawfully dispose of spilled waste material. District property shall not be used for such disposal. If the spill is not cleaned up, the District will hire a certified hazardous material handling company to clean up the spill, and the cost for such service will be charged to the contractor and deducted from amounts due to the contractor. No leakage to the atmosphere or environment will be permitted.
- D. Bulk quantities of product shall be secured by employing a uniquely-numbered tamper-evident seal(s). The seal number shall be recorded and disclosed on shipping documents such as the bill of lading. Seals shall be inspected upon receipt of product by the District, and evidence of tampering or removal may be cause for refusal of the load.
- E. Deliveries shall be made f.o.b. destination to the locations listed below and at the approximate frequency indicated:

Orinda Water Treatment Plant  
190 Camino Pablo  
Orinda, CA  
As ordered. Two (2) 6,300-gallon tanks.  
May deliver Monday-Friday, 7:00 a.m. – 3:00 p.m.

## 6.6 CERTIFICATE REQUIRED WITH DELIVERIES

- A. A certificate from the manufacturer shall be submitted for each delivery of product to the District, and shall contain the following:
- Percent by weight and equivalent pounds per unit of available active ingredient based on gravity/temperature correction.
  - Certificate of Analysis.
- B. No deliveries will be accepted by the District unless accompanied by said Certificate for the specific batch or lot of chemicals delivered.
- C. Charges for compliance with this Section shall be included in the bid price.

## 6.7 MINIMUM ORDER

Deliveries shall be available in quantities of 2,000 gallons, and 4,000 gallons.

# EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

## 6.8 TAXABILITY

Sales or use taxes are not applicable to this material, per California Department of Tax and Fee Administration's Sales and Use Annotation 275.0280 Chemicals.

### SCHEDULE VII - SODIUM BISULFITE

#### SPECIFICATIONS FOR WASTEWATER

## 7.1 THE REQUIREMENT

Under this schedule, it is required that sodium bisulfite be furnished in accordance with these specifications.

## 7.2 SPECIFICATIONS OF MATERIAL

The sodium bisulfite solution concentration shall be between 23% and 27% NaHSO<sub>3</sub> (by weight).

The sodium bisulfite solution shall have a minimum available sulfur dioxide equivalent of 15% (as SO<sub>2</sub>).

## 7.3 CERTIFICATION

Bidders shall submit with their bids an analysis of the material proposed to be delivered to the District. The analysis shall be performed by an environmental laboratory that is certified by one of the following methods to report regulatory data:

- a. Through an individual state program where the Environmental Protection Agency (EPA) has approved the state certification program and delegated primacy to the state.
- b. Through a national program, National Environmental Laboratory Accreditation Program (NELAP).
- c. Through direct accreditations by EPA in states that do not have a state Certification program where EPA retains primacy.

The laboratory shall provide all results required in these specifications to confirm compliance.

The analysis shall include those specific contaminants listed under PURITY REQUIREMENTS in the specifications. Impurity limitations imposed by reference to AWWA Specifications apply unless specifically superseded under PURITY REQUIREMENTS of the specifications. **FAILURE TO SUBMIT CHEMICAL ANALYSES WITH THE BID MAY RESULT IN THE BID BEING DEEMED NONRESPONSIVE.**

## 7.4 PURITY REQUIREMENTS

The sodium bisulfite solution shall be certified to NSF/ANSI 60 standards and have no more than 90 ppm of suspended matter.

**Each delivery shall be accompanied by a certificate of compliance and certified analysis including equivalent pounds of SO<sub>2</sub> per gallon, or delivery may be refused, and payment delayed.**

## 7.5 DELIVERY REQUIREMENTS AND LOCATIONS

Deliveries shall be made f.o.b. destination to the locations listed below and at the **approximate** frequency indicated. Under normal conditions, deliveries shall be made within two (2) days, including weekends and holidays, after receipt of order. However, under conditions such as high demand, peak flow, low inventory, or any other critical-need situation, as defined by the District, deliveries shall be made within 24 hours of receipt of order. See Section 13.9 Parts A and C for additional delivery instructions applicable to wastewater facilities.

## EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

Weigh-in and weigh-out of delivery trucks, using a certified weigh station, is required for deliveries of this material to the District. Any charges for such weigh-ins and weigh-outs shall be included in the bidding price and not as a separate charge to the District. Weight tags proving loaded weight and empty weight for each load delivered shall be furnished to this address: "EBMUD Wastewater, Wastewater Operations Section (MS 59), PO Box 24055, Oakland, CA 94623-1055."

Any spills caused during the filling operations shall be reported immediately to the on-duty Shift Supervisor. The Contractor shall take immediate and appropriate actions to clean up any spilled sodium bisulfite. If the spill is not cleaned up, the District will hire a certified hazardous material handling company to clean up the spill and the cost for such service will be charged to the Contractor, his surety, or deducted from amounts due to the Contractor.

**A. Three Times per Week (Dry Weather) to Five Times per Week (Wet Weather), 4 Times per Day (Peak)**

Main Wastewater Treatment Plant Dechlorination Facility  
350 Burma Road  
Oakland, CA  
Three (3) – 13,900 gallon storage tanks  
Delivery hours: 24/7/365

**B. During winter months only, "as needed", with delivery anytime**

Oakport Wet Weather Treatment Facility  
5597 Oakport Street  
Oakland, CA  
Two (2) - 7,500 gallon storage tanks

Pt. Isabel Wet Weather Treatment Facility  
2755 Isabel Street  
Richmond, CA  
Two (2) - 7,000 gallon storage tanks

San Antonio Creek Dechlorination Facility  
211 West Embarcadero  
Oakland, CA  
One (1) - 6,000 gallon storage tank

### 7.6 CERTIFICATE REQUIRED WITH DELIVERIES

- A. A certificate from the manufacturer shall be submitted for each delivery of product to the District, and shall contain the following:
- Percent by weight and equivalent pounds per unit of available active ingredient based on gravity/temperature correction.
  - Certificate of Analysis.
- B. No deliveries will be accepted by the District unless accompanied by said Certificate for the specific batch or lot of chemicals delivered.
- C. Charges for compliance with this Section shall be included in the bid price.

### 7.7 MINIMUM ORDER

Deliveries shall be available in quantities of 1,000 gallons, and 5,000 gallons.

# EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

## 7.8 TAXABILITY

Sales or use taxes are applicable to this material but should not be included in the bid price.

## SCHEDULE VIII – MAGNESIUM HYDROXIDE

### SPECIFICATIONS FOR WASTEWATER

## 8.1 THE REQUIREMENT

Under this schedule, it is required that Magnesium Hydroxide be furnished in accordance with these specifications.

## 8.2 SPECIFICATIONS OF MATERIALS

Parameter	Specification
% Magnesium Hydroxide by weight	60% to 65%
Specific gravity	1.55 to 1.61

## 8.3 CERTIFICATION

Bidders shall submit with their bids an analysis of the material proposed to be delivered to the District. The analysis shall be performed by an environmental laboratory that is certified by one of the following methods to report regulatory data:

- Through an individual state program where the Environmental Protection Agency (EPA) has approved the state certification program and delegated primacy to the state.
- Through a national program, National Environmental Laboratory Accreditation Program (NELAP).
- Through direct accreditations by EPA in states that do not have a state Certification program where EPA retains primacy.

The laboratory shall provide all results required in these specifications to confirm compliance.

The analysis shall include those specific contaminants listed under PURITY REQUIREMENTS in the specifications. Impurity limitations imposed by reference to AWWA Specifications apply unless specifically superseded under PURITY REQUIREMENTS of the specifications. **FAILURE TO SUBMIT CHEMICAL ANALYSES WITH THE BID MAY RESULT IN THE BID BEING DEEMED NONRESPONSIVE.**

## 8.4 PURITY REQUIREMENTS

Parameter	Maximum Allowable Value
CaO	< 4.0%
Available Magnesium Hydroxide	> 90%

## 8.5 DELIVERY REQUIREMENTS AND LOCATIONS

Bulk deliveries shall be f.o.b. destination to the locations listed below and at the approximate frequency indicated below. Under normal conditions, deliveries shall be within (2) days, including weekends and holidays, after receipt of order. However, under conditions such as high demand, peak flows, low inventory, or any other critical-need situation as defined by the District, deliveries shall be made within 24 hours of receipt of order. See Section 13.9 Parts A and C for additional delivery instructions applicable to wastewater facilities.

Weigh-in and weigh-out of delivery trucks, using a certified weigh station, is required for deliveries of this material to the District. Any charges for such weigh-ins and weigh-outs shall be included in the bidding price and not as a separate charge to the District. Weight tags proving loading weight and empty weight for each load delivered shall be furnished to this address: "EBMUD Wastewater, Wastewater Operations Section (MS 59), P.O. Box 24055, Oakland, CA 94623-1055".

## EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

Any spills caused during the filling operation shall be reported immediately to the on-duty Plant Operator. The Contractor shall take immediate and appropriate action to clean up any spilled Magnesium Hydroxide. If spill is not cleaned up, the District will hire a certified hazardous materials handling company to clean up the spill and the cost for such services will be charged to the Contractor, his surety, or deducted from amounts due to the Contractor.

### Twice Monthly

Main Wastewater Treatment Plant  
2020 Wake Avenue  
Oakland, CA  
Two (2) – 6,000-gallon storage tanks  
Delivery hours: 8:00 a.m. - noon

#### 8.6 CERTIFICATE REQUIRED WITH DELIVERIES

- A. A certificate from the manufacturer shall be submitted for each delivery of product to the District, and shall contain the following:
- Percent by weight and equivalent pounds per unit of available active ingredient based on gravity/temperature correction.
  - Certificate of Analysis.
- B. No deliveries will be accepted by the District unless accompanied by said Certificate for the specific batch or lot of chemical delivered.
- C. Charges for compliance with this section shall be included in the bid price.

#### 8.7 MINIMUM ORDER

Deliveries shall be available in minimum quantities of 1,000 gallons.

#### 8.8 TAXABILITY

Sales or use taxes are applicable to this material but should not be included in the bid price.

### **SCHEDULE IX – FERRIC CHLORIDE TO DISTRICT BULK TANKS**

#### **SPECIFICATIONS FOR WASTEWATER**

##### 9.1 THE REQUIREMENT

Under this schedule, it is required that ferric and/or ferrous chloride be furnished in accordance with these specifications.

##### 9.2 SPECIFICATIONS OF MATERIAL

Ferric chloride ( $\text{FeCl}_3$ ) solution shall be certified to NSF/ANSI Standard 60 specifications and be between 38 and 47% ferric chloride by weight. In addition, it shall conform to the purity requirements specified in Section 5.3, Purity Requirements.

Ferrous chloride ( $\text{FeCl}_2$ ) solution shall be certified to NSF/ANSI Standard 60 specifications and be between 25% and 30% ferrous chloride by weight. In addition it shall conform to the purity requirements specified in section 5.3, Purity Requirements.

# EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

## 9.3 CERTIFICATION

Bidders shall submit with their bids an analysis of the material proposed to be delivered to the District. The analysis shall be performed by an environmental laboratory that is certified by one of the following methods to report regulatory data:

- Through an individual state program where the Environmental Protection Agency (EPA) has approved the state certification program and delegated primacy to the state.
- Through a national program, National Environmental Laboratory Accreditation Program (NELAP).
- Through direct accreditations by EPA in states that do not have a state Certification program where EPA retains primacy.

The laboratory shall provide all results required in these specifications to confirm compliance.

The analysis shall include those specific contaminants listed under PURITY REQUIREMENTS in the specifications. Impurity limitations imposed by reference to AWWA Specifications apply unless specifically superseded under PURITY REQUIREMENTS of the specifications. **FAILURE TO SUBMIT CHEMICAL ANALYSES WITH THE BID MAY RESULT IN THE BID BEING DEEMED NONRESPONSIVE.**

## 9.4 PURITY REQUIREMENTS

### FERRIC CHLORIDE

Ferric Chloride (FeCl <sub>3</sub> ) wt. %	38-47%
Ferric Iron Fe (III) wt. %	13.1 – 14.5%
Ferrous Iron Fe (II) wt. %	<0.25%
Specific Gravity (68F)	1.40 avg
Free HCl wt. %	<0.5%
Water-Insoluble Matter – wt. %	<.01%

### Metal Analysis - no more than:

Arsenic	As	<5 mg/L
Barium	Ba	<1 mg/L
Beryllium	Be	<1 mg/L
Cadmium	Cd	<0.5 mg/L
Copper	Cu	<30 mg/L
Lead	Pb	<10 mg/L
Manganese	Mn	<500 mg/L
Mercury	Hg	<.01 mg/L
Molybdenum	Mo	<1 mg/L
Nickel	Ni	<1 mg/L
Selenium	Se	<1 mg/L
Silver	Ag	<1 mg/L
Zinc	Zn	<50 mg/L

### Miscellaneous

Total Organic Carbon	<30 mg/L
Radionucleides	ND (non-detectable)
Hexachlorobenzene	ND (non-detectable)

## 9.5 DELIVERY REQUIREMENTS AND LOCATION

Deliveries shall be made f.o.b. destination to the District's 6,300-gallon storage tank at the Wastewater Treatment Plant, 2020 Wake Avenue, Oakland, CA.

Under normal conditions deliveries shall be made within three (3) days, including weekends and holidays, after receipt of order. Under crucial need conditions such as high demand or low inventory, as defined by the District, deliveries shall be made within 24 hours of receipt of order. See Section 13.9 Parts A and C for additional delivery instructions applicable to wastewater facilities.

## EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

Weigh-in and weigh-out of delivery trucks, using a certified weigh station, is required for deliveries of this material to the District. Any charges for such weigh-ins and weigh-outs shall be included in the bidding price and not as a separate charge to the District. Weight tags proving loaded weight and empty weight for each load delivered shall be furnished to this address: "EBMUD Wastewater, Wastewater Operations Section (MS 59), PO Box 24055, Oakland, CA 94623-1055."

### 9.6 CERTIFICATE REQUIRED WITH DELIVERIES

- A. A certificate from the manufacturer shall be submitted for each delivery of product to the District, and shall contain the following:
- Percent by weight and equivalent pounds per unit of available active ingredient based on gravity/temperature correction.
  - Certificate of Analysis.
- B. No deliveries will be accepted by the District unless accompanied by said Certificate for the specific batch or lot of chemicals delivered.
- C. Charges for compliance with this Section shall be included in the bid price.

### 9.7 MINIMUM ORDER

Bulk deliveries of 4,000 gallons will be a minimum order.

### 9.8 PRICING

Pricing shall remain firm for the first six months of the contract term.

### 9.9 TAXABILITY

Sales or use taxes are applicable to this material but should not be included in the bid price.

## **SCHEDULE X - SULFURIC ACID (93%)**

### **SPECIFICATIONS FOR WASTEWATER**

#### 10.1 THE REQUIREMENT

Under this schedule, it is required that sulfuric acid (93%) be furnished in accordance with these specifications.

#### 10.2 SPECIFICATIONS OF MATERIAL

The sulfuric acid (93%) shall be used in a large water reclamation project. The material shall be analyzed in accordance with Standard Methods for Examination of Water and Wastewater, Section 304, Sulfuric Acid Concentration - Minimum 93% H<sub>2</sub>SO<sub>4</sub>.

#### 10.3 CERTIFICATION

Bidders shall submit with their bids an analysis of the material proposed to be delivered to the District. The analysis shall be performed by an environmental laboratory that is certified by one of the following methods to report regulatory data:

- a. Through an individual state program where the Environmental Protection Agency (EPA) has approved the state certification program and delegated primacy to the state.

## EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

- b. Through a national program, National Environmental Laboratory Accreditation Program (NELAP).
- c. Through direct accreditations by EPA in states that do not have a state Certification program where EPA retains primacy.

The laboratory shall provide all results required in these specifications to confirm compliance.

The analysis shall include those specific contaminants listed under PURITY REQUIREMENTS in the specifications. Impurity limitations imposed by reference to AWWA Specifications apply unless specifically superseded under PURITY REQUIREMENTS of the specifications. **FAILURE TO SUBMIT CHEMICAL ANALYSES WITH THE BID MAY RESULT IN THE BID BEING DEEMED NONRESPONSIVE.**

### 10.4 PURITY REQUIREMENTS

The material shall not exceed the following concentrations of impurities, as sampled and analyzed.

Iron (Fe)	50 ppm max.
Nitrogen Compounds	20 ppm max.
Arsenic (As)	0.1 ppm max.

### 10.5 DELIVERY REQUIREMENTS AND LOCATION

Deliveries shall be made f.o.b. destination to the North Richmond Water Reclamation Plant, 105 Brookside Drive, Richmond, CA, to a tank capable of storing 12,000 gallons.

The materials shall be delivered between the hours of 7:00 a.m. and 1:00 p.m., Monday through Friday, except on District holidays, in tank trucks or trailers.

Weigh-in and weigh-out of delivery trucks, using a certified weigh station, is required for deliveries of this material to the District. Any charges for such weigh-ins and weigh-outs shall be included in the bidding price and not as a separate charge to the District. Weight tags proving loaded weight and empty weight for each load delivered shall be furnished to this address: "EBMUD Wastewater, Wastewater Operations Section (MS 59), PO Box 24055, Oakland, CA 94623-1055." The District makes no recommendations regarding certified weigh stations but understands the following to be a nearby station: West Contra Costa Sanitary Landfill, contact Anna or Randy at (510) 233-8810.

See Section 13.9 Parts A and C for additional delivery instructions applicable to wastewater facilities.

### 10.6 CERTIFICATE REQUIRED WITH DELIVERIES

- A. A certificate from the manufacturer shall be submitted for each delivery of product to the District, and shall contain the following:
  - Percent by weight and equivalent pounds per unit of available active ingredient based on gravity/temperature correction.
  - Certificate of Analysis.
- B. No deliveries will be accepted by the District unless accompanied by said Certificate for the specific batch or lot of chemicals delivered.
- C. Charges for compliance with this Section shall be included in the bid price.

### 10.7 MINIMUM ORDER

Deliveries shall be in minimum quantities of 2,000 gallons. See Section 13.9 for Delivery by Tank Truck or Trailer.

### 10.8 TAXABILITY

# EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

Sales or use taxes are applicable to this material but should not be included in the bid price.

## SCHEDULE XI – AQUA AMMONIA

### SPECIFICATIONS FOR WATER

#### 11.1 THE REQUIREMENT

Under this schedule, it is required that aqua ammonia be furnished f.o.b. destination to various District water treatment plants, between the hours of 7:00 a.m. to 3:00 p.m., Monday through Friday.

#### 11.2 SPECIFICATIONS OF MATERIAL

- A. The aqua ammonia supplied under these specifications shall comply with AWWA Standard B306-07.
- B. Aqua ammonia shall be colorless, transparent, aqueous solution of ammonia that is free from suspended matter or sediment.
- C. The aqua ammonia shall, when used in dosages standard to the potable water industry, contain no substances that produce deleterious or injurious effects upon the health of those consuming the water to which the aqua ammonia has been added or causing water so treated to fail to meet the requirements of the California Domestic Water Quality and Monitoring Regulations, as documented by the California Department of Health Services at the time of the issuance of this bid specification.
- D. The aqua ammonia delivered under the agreement shall have a minimum of 18.0 percent and a maximum of 19.0 percent available ammonia as  $\text{NH}_3$ .
- E. The aqua ammonia shall conform to the following standards:

#### Maximum

1. Carbon dioxide, mg/l	5.0
2. Sulfur (as sulfate, $\text{SO}_4$ ), mg/l	3.0
3. Heavy metals (as lead), mg/l	1.0
4. Iron (Fe), mg/l	0.5
5. Chlorides, mg/l	0.5
6. Phosphates ( $\text{PO}_4^{-3}$ ), mg/l	0.5
7. Residue after ignition, mg/l	5.0

- F. Aqua ammonia supplied under this contract shall be tested and certified as meeting these specifications and those of the American national Standards Institute/National Sanitation Foundation Standard 60 (ANSI/NSF Standard 60), Drinking Water Treatment Chemicals – Health Effects. It is the responsibility of the Contractor to inform the District that NSF certification has been revoked or lapsed within 24 hours of the time the Contractor received verbal or written notification. Loss of certification shall constitute sufficient grounds for immediate termination of the contract for cause.

#### 11.3 CERTIFICATION

Bidders shall submit with their bids an analysis of the material proposed to be delivered to the District. The analysis shall be performed by an environmental laboratory that is certified by one of the following methods to report regulatory data:

## EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

- a. Through an individual state program where the Environmental Protection Agency (EPA) has approved the state certification program and delegated primacy to the state.
- b. Through a national program, National Environmental Laboratory Accreditation Program (NELAP).
- c. Through direct accreditations by EPA in states that do not have a state Certification program where EPA retains primacy.

The laboratory shall provide all results required in these specifications to confirm Compliance.

The analysis may be performed at concentrations other than the 18-19 % available ammonia as NH<sub>3</sub> specified for delivery under this Proposal.

### 11.4 DELIVERY REQUIREMENTS AND LOCATIONS

- A. The Contractor shall be responsible for any spills resulting from the failure of its or its subcontractor's delivery equipment or from failure of attendant delivery personnel in the proper performance of their duties. Proper performance shall require attendant delivery personnel's constant inspection and observation of unloading operations and knowledgeable response to problems or emergencies which would most commonly be expected to occur.

The District reserves the right to refuse any and all deliveries made with equipment which is poorly maintained.

- B. The tanks or trailers should be rubber lined and shall be clean and free of residue from previous loads which might contaminate the Contractor's product or impede the unloading process. It shall be the Contractor's responsibility to verify the cleanliness of the transporting equipment before loading. The Contractor will be required to furnish a District-approved, leak-free connection device between his pumper and the District's intake receptacle.
- C. The Contractor shall observe the entire filling operation at each water treatment plant and shall immediately report any spills caused during the filling operations to the on-duty Water Treatment Plant Operator. The Contractor shall take immediate and appropriate actions to clean up any spilled product, and shall, at no charge to the District, haul away and lawfully dispose of spilled waste material. District property shall not be used for such disposal. If the spill is not cleaned up, the District will hire a certified hazardous material handling company to clean up the spill, and the cost for such service will be charged to the Contractor and deducted from amounts due to the Contractor. No leakage to the atmosphere or environment will be permitted.
- D. Bulk quantities of product shall be secured by employing a uniquely-numbered tamper-evident seal(s). The seal number shall be recorded and disclosed on shipping documents such as the bill of lading. Seals shall be inspected upon receipt of product by the District, and evidence of tampering or removal may be cause for refusal of the load.
- E. Deliveries shall be made within three (3) working days after receipt of order.

Delivery shall be made f.o.b. destination into aqua ammonia storage tanks at the District water treatment plants listed below:

	<u>Plant Name and Address</u>	<u>Storage Capacity</u>	
		<u>No. of Tanks</u>	<u>Per Tank</u>
1.	Orinda Water Treatment Plant 190 Camino Pablo Orinda, CA	2	6,300 gallons
2.	Lafayette Treatment Plant 3848 Mt. Diablo Boulevard Lafayette, CA	1	2,000 gallons

## EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

3.	Sobrante Water Treatment Plant 5150 Amend Road El Sobrante, CA	2	2,000 gallons
4.	Upper San Leandro Water Treatment Plant 7700 Greenly Drive Oakland, CA	2	2,000 gallons
5.	Walnut Creek Water Treatment Plant 2201 Larkey Lane Walnut Creek, CA	2	6,000 gallons
6.	San Pablo Water Treatment Plant 300 Berkeley Park Boulevard Kensington, CA 94707	1	2,000 gallons

### 11.5 CERTIFICATE REQUIRED WITH DELIVERIES

- A. A certificate from the manufacturer shall be submitted for each delivery of aqua ammonia to the District, and shall contain the following:
1. Percent by weight and pounds per gallon of available ammonia, based on specific gravity/temperature correction.
  2. Product clarity report.
- B. No deliveries will be accepted by the District unless accompanied by said certificate for the specific batch or lot of chemicals delivered.
- C. Charges for the certified laboratory report and the delivery certificates shall be included in the bid price.

### 11.6 MINIMUM ORDER

The minimum order for delivery of aqua ammonia will be 1,000 gallons.

### 11.7 TAXABILITY

Sales or use taxes are not applicable to this material, per California Department of Tax and Fee Administration's Sales and Use Annotation 275.0280 Chemicals.

## **SCHEDULE XII – LIQUID ALUMINUM SULFATE**

### **SPECIFICATIONS FOR WATER**

#### 12.1 THE REQUIREMENT

Under this schedule, it is required that liquid aluminum sulfate be furnished in accordance with these specifications.

#### 12.2 SPECIFICATIONS OF MATERIAL

The liquid aluminum sulfate shall be in accordance with AWWA Specification B403-03. The strength of solution for liquid aluminum sulfate shall not be less than 47.25% dry alum equivalent as  $Al_2(SO_4)_3 \cdot 14.3 H_2O$ .

## EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

Alum supplied under this proposal shall contain no soluble mineral or organic substances in quantities capable of producing deleterious or injurious effects upon water quality or public health. Suspended matter shall not exceed 2,000 mg/L. The alum supplied must be reasonably clear and shall be free from contaminating substance which could interfere with normal operation of District facilities by causing clogging or blockage of feed lines, valves, strainers, or measuring devices.

Liquid aluminum sulfate supplied under this contract shall be tested and certified as meeting these specifications and those of the American National Standards Institute/National Sanitation Foundation Standard 60 (ANSI/NSF Standard 60), Drinking Water Treatment Chemicals – Health Effects. It is the responsibility of the Contractor to inform the District that NSF certification has been revoked or lapsed within 24 hours of the time the Contractor received verbal or written notification. Loss of certification shall constitute sufficient grounds for immediate termination of the contract for cause.

### 12.3 PURITY REQUIREMENTS

The material shall not contain the following impurities in excess of the concentrations listed below (based on  $\text{Al}_2(\text{SO}_4)_3 \cdot 14.3 \text{ H}_2\text{O}$ ):

Arsenic (As)	0.003% (30 ppm)
Cadmium (Cd)	0.0007% (7 ppm)
Chromium (Cr)	0.003% (30 ppm)
Lead (Pb)	0.003% (30 ppm)
Copper (Cu)	0.003% (30 ppm)
Mercury (Hg)	0.0001% (1 ppm)
Selenium (Se)	0.0007% (7 ppm)
Silver (Ag)	0.003% (30 ppm)
Iron (Fe)	0.35% (3,500 ppm) based on 8.0% $\text{Al}_2\text{O}_3$

Sampling, preparation, and analysis shall be in accordance with NSF Standard 60.

### 12.4 CERTIFICATION

Bidders shall submit with their bids an analysis of the material proposed to be delivered to the District. The analysis shall be performed by an environmental laboratory that is certified by one of the following methods to report regulatory data:

- Through an individual state program where the Environmental Protection Agency (EPA) has approved the state certification program and delegated primacy to the state.
- Through a national program, National Environmental Laboratory Accreditation Program (NELAP).
- Through direct accreditations by EPA in states that do not have a state Certification program where EPA retains primacy.

The laboratory shall provide all results required in these specifications to confirm compliance.

Random samples of alum delivered under this proposal will be taken by the District and analyzed for compliance with the specifications using the following crystallization test:

Take a labeled 500-mL sample of the liquid alum from the delivery vehicle just before or during the unloading process and maintain at not less than 20°C. Filter 75 to 100 mL of the sample through a 9-cm or larger Whatman GF/A glass fiber filter placed in a suitable Buchner funnel. Transfer 100 mL of the filtrate to a 125 mL Erlenmeyer flask (glass-stopper or screw-capped) OR add a minimum of 45 mL of filtrate to a Corning 8422 centrifuge tube, 50 mL. Close the container and place either in a water bath or a refrigerator, both maintained at a temperature of 4.5°C. (40°F). Remove after 18 hours and immerse in an ultrasonic water bath for 5 seconds. Replace in the refrigerator for 6 hours. Remove after a total of 24 hours and without mixing, examine the bottom of the container for the presence of crystals. REQUIREMENT: There must be no crystals present after 24 hours refrigeration at 4.5°C.

# EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE

## 12.5 DELIVERY REQUIREMENTS AND LOCATIONS

- A. The Contractor shall be responsible for any spills resulting from the failure of its or its subcontractor's delivery equipment or from failure of attendant delivery personnel in the proper performance of their duties. Proper performance shall require attendant delivery personnel's constant inspection and observation of unloading operations and knowledgeable response to problems or emergencies which would most commonly be expected to occur.

The District reserves the right to refuse any and all deliveries made with equipment which is poorly maintained.

- B. The tanks used to transport the alum shall be clean and free from residue from previous loads that might contaminate the Contractor's product or impede the unloading process. It shall be the Contractor's responsibility to verify the cleanliness of the transporting equipment before loading. The Contractor shall observe the entire filling operation at each water treatment plant and shall be responsible for any spillage due to this operation. The contractor will be required to furnish a District-approved, leak-free connection device between the delivery vehicle and the District's intake receptacle.
- C. Any spills caused during the filling operations shall be reported immediately to the on-duty Water Treatment Plant Operator. The contractor shall take immediate and appropriate actions to clean up any spilled aluminum sulfate, and shall, at no charge to the District, haul away and lawfully dispose of spilled waste material. District property shall not be used for such disposal. If the spill is not cleaned up, the District will hire a certified hazardous material handling company to clean up the spill and the cost for such service will be charged to the contractor and deducted from the amount due to the contractor. No leakage to the atmosphere or environment will be permitted.
- D. Bulk quantities of product shall be secured by employing a uniquely-numbered tamper-evident seal(s). The seal number shall be recorded and disclosed on shipping documents such as the bill of lading. Seals shall be inspected upon receipt of product by the District, and evidence of tampering or removal may be cause for refusal of the load.
- E. Deliveries shall be made within three (3) working days after receipt of order. Deliveries accepted Monday-Friday, 7:00 a.m. to 3:00 p.m.

Deliveries shall be made f.o.b. destination to:

1. Delivery shall be made to two (2) 10,000-gallon-capacity storage tanks, Upper San Leandro Water Treatment Plant, 7700 Greenly Drive, Oakland, CA
2. Delivery shall be made to two (2) 10,000-gallon-capacity storage tanks, Sobrante Water Treatment Plant, 5150 Amend Road, El Sobrante, CA
3. Delivery shall be made to two each 6,000-gallon-capacity storage tanks, San Pablo Water Treatment Plant, 300 Berkeley Park Boulevard, Kensington, CA
4. Delivery shall be made to two each 6,300-gallon-capacity storage tanks, Orinda Water Treatment Plant, 190 Camino Pablo, Orinda, CA

## 12.6 CERTIFICATE REQUIRED WITH DELIVERIES

- A. A certificate from the manufacturer shall be submitted for each delivery of product to the District, and shall contain the following:
- Percent by weight and equivalent pounds per unit of available active ingredient based on gravity/temperature correction.
  - Certificate of Analysis.

## **EXHIBIT E - CHEMICAL REQUIREMENTS BY SCHEDULE**

- B. No deliveries will be accepted by the District unless accompanied by said Certificate for the specific batch or lot of chemicals delivered.
- C. Charges for compliance with this Section shall be included in the bid price.

### **12.7 MINIMUM ORDER**

Delivery shall be made in 3,000-gallon or larger tank trucks or trailers.

### **12.8 TAXABILITY**

Sales or use taxes are not applicable to this material.