

**INVITATION FOR BID
October 17, 2024**

INVITATION FOR BID NUMBER	IFB 24-030
NAME OF BID	Annual Contract for Dewatering Polymer for HE Myers Water Treatment Plant
BIDS WILL BE RECEIVED AT	MAWSS Bid Box Donaghey Business Entrance 4725A Moffett Road or PO Box 180249 Mobile, AL 36618
BID OPENING DATE	October 31, 2024
BID OPENING TIME	1:30 pm Central Time
AWARD WILL BE MADE BY	Total Cost & Lead Time
CONTRACT PERIOD	1/1/25 through 12/31/25 with two 1-year extension options
MATERIAL DELIVERED TO	HE Myers Water Treatment Plant 1475 Hubert Pierce Rd. Mobile, AL 36608
ADDITIONAL INFORMATION CONTACT	Randy Sullivan (251) 378-3483 Email: rsullivan@mawss.com or John Jordan (251) 378-3492 Email: jjordan@mawss.com
APPLICABLE SDP POLICY	None

Sealed bids must be in the Purchasing Department no later than the time specified in order to be considered. Submissions received after the deadline will not be considered. Envelopes must bear the name of the supplier, company address and the words "IFB 24-030 Polymer for HE Myers WTP" or "IFB 24-030 NO QUOTE." Facsimile or email bids will not be accepted.

All bids must be submitted on the attached forms or your bid will be disqualified. Bidder shall furnish all the information required by the solicitation. The bidder's name must be typed or printed on the bid sheet, and signed by the bidder or appropriate authorized executive officer of the bidder's company. Bidders must initial any changes or erasures. Bidders should retain a copy of bids for their records.

Bidders shall acknowledge receipt of all addenda to this solicitation by signing and returning each addendum or by identifying the addendum number and the date on the bid form. Failure to acknowledge receipt of any addendum by a bidder will result in rejection of the bid if MAWSS determines that the addendum contains information that materially changes the requirements.

All bids shall be quoted FOB Destination, freight prepaid with no additional charges. Unless otherwise specified in the bid, all prices will be on a firm-fixed price basis and are not subject to adjustments based on costs incurred. MAWSS reserves the right to reject any or all bids submitted, to waive any informality in any bid or in the bid process, or to terminate the bid process at any time, if deemed by MAWSS to be in MAWSS's best interest.

A Purchase Order and this "Invitation for Bid" with "Specifications," "Conditions," "Bid Form," signed by the successful bidder's authorized representative, and all attached drawings and other documents furnished by MAWSS to the bidders with the Invitation for Bid in order to illustrate the contract requirements, will constitute a contract for the goods and/or services to be purchased.


Joyce Sawyer, Buyer II
Board of Water and Sewer Commissioners

IFB 24-030 DEWATERING POLYMER FOR HE MYERS WTP CONDITIONS

The Board of Water and Sewer Commissioners of the City of Mobile will accept bids for **Dewatering Polymer for the HE Myers WTP – Annual Contract** in our Purchasing Department **Bid Box** located at 4725A Moffett Road, Mobile, AL 36618 in the Business Entrance **no later than 1:30 p.m.** local time on **October 31, 2024**. Bids will be opened immediately after bid closing time in the Board Room located in the Customer Service entrance. Award will be by **Total Cost & Lead Time**. The bidder offers and agrees, if this bid is accepted, to furnish the items as defined in the specifications for the unit price set opposite each item. Pricing shall be FOB Mobile, Alabama. All items shall be delivered to our **HE Myers WTP at 1475 Hubert Pierce Rd, Mobile, AL 36608** or to the job site as needed. The bidder shall state the expected length of delivery time on the Bid Form.

No substitution for items to be provided pursuant to this contract shall be permitted during the contract period without the express written consent of MAWSS. All items provided shall be for commercial use and for the purposes reflected in the contract documents.

Bidder understands that his/her bid shall be good and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing time for receiving bids.

Bidder understands and agrees that quantities will be purchased by MAWSS on an “as needed” basis to replenish inventory. MAWSS shall not be committed to the purchase of a pre-established minimum quantity for any one item.

A bidder may not modify its bid after bid opening. Errors in the extension of unit prices stated in a bid or in multiplication, division, addition or subtraction in a bid may be corrected by the MAWSS Purchasing Buyer prior to award. In such cases, unit prices shall not be changed.

It is the responsibility of the bidder to determine prior to the bid opening whether any amendment, additions, deletions or changes of any type have been made to this Invitation for Bid, Conditions, Specifications, Bid Form or any of the other bid documents. Bid documents and any amendments made to this bid will be posted on our website at www.mawss.com.

Invoicing Requirements: MAWSS is requiring additional information for all work performed and services provided. On the vendor’s invoice for payment should be a detailed listing of work performed, services provided, dates completed, locations involved and any other pertinent information needed to verify the work and/or services were completed in accordance to the bid specs. This additional information can be supplied in the form of detailed invoices, work orders, checklists or any other documents used to track the work performed or services provided but details must be included on the actual invoice. A copy of the invoice and these additional details must be sent to the “ADDITIONAL INFORMATION CONTACT” found on Page 1 of the bid documents and a copy emailed to Accounts Payable at AcctsPayable@mawss.com.

END OF CONDITIONS

IFB 24-030 DEWATERING POLYMER FOR HE MYERS WTP SPECIFICATIONS

General

Polymer must be compatible with present dewatering equipment, suitable for disposal in the H & S Landfill, and centrate must be suitable for recycling through the plant processes. The polymer must have NSF 60 and EPA approval for use in potable water processes. Only emulsion or liquid type polymers will be accepted by the Board. The Board purchases polymer in bulk quantities, and therefore it requires a minimum shelf life of six (6) months. A bulk storage container, and mixers required to maintain homogeneity of emulsions or liquid, shall be provided by the successful Bidder at no additional cost to the Board. Bid price shall be quoted as cost per pound of product.

The dewatering equipment and process at the Myers Water Treatment Facility is generally described below:

Alum and PAC sludges are collected from the Stickney and Myers Water Treatment Facilities and combined in a common clarifier/storage basin. The combined alum and PAC waste produced is approximately 850 cubic yards of dewatered sludge per month. The present dewatering facility consists of (3) Andritz Decanter Type D5LXC60CHPE2 centrifuges. Polymer feed pumps are Polyblend, manufactured by UGSI Chemical Feed. The dewatered sludge is moved by Screw Conveyor to a receiving truck, and then disposed of in the H & S Landfill. This facility is normally operated five days a week for approximately six hours a day.

Terms of Contract

The term of this Annual Contract shall be for **one year** starting January 1, 2025, unless modified by mutual agreement or terminated for cause. The Board has the option to extend this contract for two additional one-year periods after prior written approval of both parties.

Evaluation and Qualification

Only the three lowest Bidders will be allowed to participate in the evaluation and qualification process.

To properly evaluate and qualify a product for bid will require product testing using the Board's existing equipment. Adequate product must be provided by the successful Bidder, at no cost to the Board. The successful Bidder shall provide sufficient product and technical support to accomplish the product testing. Each Bidder will have one day per product to qualify. Forty-five (45) minutes will be allowed to "warm-up" and 150 minutes for test run time for each product tested. Each Bidder will be allowed a maximum of two products to be tested per bid price.

Any modification or adjustments to the Board's equipment must be made by, and/or with complete cooperation and observance of, the plant operating personnel. All special equipment, products, tools, piping, power, controllers and alike, required by the successful Bidder, shall be installed and supplied at no cost to the Board. Upon completion of the qualification testing, all items and equipment shall be returned to the condition existing prior to the commencement of any successful Bidder's testing.

**IFB 24-030 DEWATERING POLYMER FOR HE MYERS WTP
SPECIFICATIONS (Cont.)**

Should special clean-up or extraordinary efforts be required, the successful Bidder will be required to reimburse the Board for appropriate costs incurred. Documents to this effect may be required to be executed prior to qualification testing. Testing will be conducted within equipment limits and in accordance with the requirements listed in the Qualification Information section of these specifications.

Award

Award of the Contract will be based on product performance and cost of polymer per dry ton of sludge dewatered under normal operating conditions.

The following formulas will be used to calculate results:

$$\text{Total Solids Capture Rate (TSCR)} = \frac{\% \text{ TS in Cake} \times (\% \text{ TS in Feed} - \% \text{ TS in Effluent})}{\% \text{ TS in Feed} \times (\% \text{ TS in Cake} - \% \text{ TS in Effluent})}$$

$$\text{Total Pounds of Polymer Used (TPPU)} =$$

$$\text{Start Weight} - \text{Ending Weight}$$

$$\text{Dry Tons (DT)} = \frac{\text{GPM Feed} \times \% \text{ Solids} \times 8.341 \times \text{Min}}{2000}$$

$$\text{Pounds of Polymer Used per Dry Ton (Lbs/DT)} = \frac{\text{TPPU}}{\text{DT}}$$

$$\text{Cost per Dry Ton (CPDT)} = \text{Lbs/DT} \times \text{Cost per lb} = \text{Cost per dry Ton}$$

$$\text{Estimated Amount of Contract (EAC)} = \text{Estimated dry tons per year (1200)} \times \text{CPDT}$$

The Board will award a single contract.

Cost will include requirements for storage, shipping, handling, and mixing. Storage containers shall be of a size and configuration that readily adapts to the Board's current operations. All support systems required for change or modification of the Board's current system configuration shall be included in the Bidder's cost. The Board reserves the right to accept or reject any or all bids and to waive technicalities if deemed to be in the best interest of the Board.

**IFB 24-030 DEWATERING POLYMER FOR HE MYERS WTP
SPECIFICATIONS (Cont.)**

Delivery

Delivery shall be made by truck to the Sludge Processing Building at the Myers Water Treatment Facility at 1475 Hubert Pierce Road, Mobile, Alabama, 36608. The delivery vehicle and handling equipment shall be suitable for handling by the Board's existing equipment and personnel. Any special handling equipment shall be supplied as part of the Bidder's polymer system at no additional cost to the Board. The Board shall write purchase orders as needed, and in quantities as required during the term of the Contract. It shall be the responsibility of the successful Bidder to assure that delivery is made within six (6) working days after an order is placed by the Board. Delivery shall be made Monday through Friday, 7 A.M. to 12:30 P.M., and shall be performed in a safe and efficient manner. Any equipment necessary to assure safe and efficient delivery shall be the responsibility of the successful Bidder. All deliveries shall be FOB Myers Water Treatment Facility's Sludge Processing Building. Bidders are required to visit the plant to review the polymer storage area and also to review any delivery or unloading problems that may occur. Bidders assume all risks, responsibilities, and costs, which may arise as an incident of handling, transportation, delivery, and unloading of the chemicals specified herein, until proper unloading of said chemicals has been completed at the delivery point. All carriers must abide by all applicable state and federal regulations concerning the transportation of such materials. Supplier shall take the following security measures:

1. Email a copy of the Bill of Lading before each delivery which includes truck or trailer number and identification / tracking numbers to Randy Sullivan rsullivan@mawss.com or Robert Franks rfranks@mawss.com.
2. Provide the Name of Driver (Photo ID preferred).
3. State if delivery will be by Company-owned Trucks or Independent Carriers.

Technical Assistance

The successful Bidder shall provide a qualified service representative to visit the Myers Water Treatment Facility at least quarterly, to assure the proper use of the products, and to be on call to answer any questions or assist in the solution of any problems that may arise in the application of the product. Response shall be within twenty four (24) hours by telephone, or within two (2) days, if a site visit is necessary. The Bidder shall provide a minimum of two 1-hour chemical and handling safety training classes for the facility's operations staff. These classes shall be held each year for the duration of this Contract and appropriate extensions. Training classes shall be at no additional cost to the Board, but included in the Bidder's total product bid.

Firm Price

The Board requires that firm prices be bid for the polymers to be furnished under these specifications. No adjustments will be considered for the price quoted for the Contract duration. This includes, but is not limited to, cost of living adjustments and fuel adjustment requests.

**IFB 24-030 DEWATERING POLYMER FOR HE MYERS WTP
SPECIFICATIONS (Cont.)**

Termination of Contract

The Board reserves the right to terminate the Contract if the Bidder fails to meet delivery or technical assistance schedules as specified herein, or if the disposal regulations change to preclude disposal of the product in the sanitary landfill. The Board also reserves the right to terminate the Contract if the product fails to perform satisfactorily. Such failure will be defined as a greater than ten percent increase in product consumption or a two percent decrease in solids recovery that the Bidder is unable to demonstrate is related to changes in sludge quality, and which the Bidder is unable to correct within thirty (30) days. The increase or decrease in product consumption is based on trial performance data. Also, inconsistent product characteristics, such as stratification, which makes mixing of the homogeneous solution difficult on an on-going basis, will be cause for termination.

Special Conditions

The present bulk storage container is an approximate 300 gallon TOTE. A similar container is acceptable and will be available to be returned to the vendor upon completion of the Contract. The Board will not clean or disinfect the interior of the storage container prior to return. Drummed products will not be acceptable as normal product delivery.

Any special handling or agitation required to maintain the polymer emulsion or liquid in its working, usable form and consistency, in the bulk container, shall be supplied by the successful Bidder at no additional cost (including power requirements which exceed the Board's current configured electrical system). This shall include, but not be limited to, adequately sized circulating pumps, mixers, heaters, coolers, etc. The Board has means and equipment to pump polymer in a usable working consistency, but cannot accept polymer that is difficult to maintain in homogeneous solution.

The Bidder shall be responsible for supplying a certification that their product is acceptable to all Federal (EPA) and Alabama Department of Environmental Management (ADEM) requirements for disposal in a sanitary landfill or land application. The successful Bidder shall be responsible for supplying complete test data on sludge produced from the dewatering operation, at no charge to the Board. The test data shall be sufficient and complete, in all aspects, for inclusion in the Board's annual submittal for the Alabama Department of Environmental Management's (ADEM) permit to dispose of alum sludge at the H & S Landfill, or other approved landfill sites. The supplier must remove and properly dispose of any and all delivery containers at least bi-monthly. The Board will not be responsible for the cleaning of these containers. Bidder shall certify in writing that residual polymer in the recycled centrate will not exceed the MCL for Acrylamide. Calculations should be based on 20 MGD of raw water treated.

**IFB 24-030 DEWATERING POLYMER FOR HE MYERS WTP
SPECIFICATIONS (Cont.)**

Dewatering Polymer Testing

1. Upon request, each Bidder will be provided a sample of sludge. This sample will be sufficient to use for preliminary jar testing to determine which product will be used in the qualifying production test. Sample containers shall be supplied by the Bidder. The Bidder shall be responsible for all handling and transportation costs for samples. A maximum of two products per Bidder will be allowed to be tested. It is the Bidder's responsibility to determine, using preliminary jar tests, which products he desires to present in the qualifying test.

2. Once the Bidder has determined which product he intends to use, a specification sheet on the particular polymer, including percent (%) active polymer, along with a certified statement that this product meets all EPA environmental requirements, can be disposed of in a sanitary landfill, and is acceptable for use in potable water production, will be forwarded to *Mr. Zack Butler, H.E. Myers Filtration Plant, 1475 Hubert Pierce Road, Mobile, Alabama 36608*. Specification sheet must be filed prior to qualifying test.

3. Bidders will be responsible for bringing with them, on the day of the product test, sufficient product, packaged in five gallon containers, to complete the prescribed production testing.

Should additional piping or containers be required to maintain the test prescribed without interruption, the Bidder shall supply it, at no cost to the Board.

Any test equipment the Bidder wishes to utilize for his own evaluation should be supplied and operated, at no cost to the Board.

4. The production test run will be conducted in the following manner:

- a. Board personnel will operate all equipment and will make all adjustments to sludge feed rates and polymer feed rates. The product technical representative will advise the operator of the polymer feed rates desired. These instructions will be carried out to the extent that they do not exceed the safe operating zones of equipment, and the resulting dewatered sludge is within acceptable limits for disposal at the sanitary landfill. The operator will have final authority to stop any test run if, in his judgment, the product is not meeting this basic criteria.
- b. The normal testing events will allow sufficient preliminary adjustment of equipment and polymer feed rates to regulate all product and equipment to produce a uniform dewatered product. Once the technical representative is satisfied, he will declare that he is ready to commence the test run. A test run will start with taking the first sample at no less than 15-minute intervals. Ten samples will be taken for evaluation from each product.

**IFB 24-030 POLYMER FOR HE MYERS WTP
SPECIFICATIONS (Cont.)**

- c. A third-party laboratory will analyze all official samples which will be taken to the Lab by a Mobile Area Water and Sewer System (MAWSS) Operator Technician. The Bidder may also take samples for testing, if they so desire. A product technical representative will be required to be present at all times during the scheduled production test period. The Board encourages a limited number of technical representatives to be present during testing because of limited work space and safety.
 - d. Only one centrifuge and polymer feed system will be used for the test. The same equipment will be used for all product testing.
5. Sludge process evaluation reports covering performance characteristics since January of 2002 may be reviewed at the H.E. Myers Filtration Plant at 1475 Hubert Pierce Road, Mobile, AL 36608. The Board currently uses one product for dewatering. The product used is Clarifloc A-6320 provided by Polydyne Inc. Based on last year's (2023) operations, the Board has purchased approximately 87,400 pounds of current product.
6. The anticipated raw sludge feed concentration will be 1.5 to 7 percent solids by dry weight.
7. The minimum acceptable product, having a total solids capture rate of not less than 99 percent at a dewatering system feed rate of approximately 100 gallons per minute, shall produce a sludge cake with a dry solids concentration of not less than 18 %.
8. All questions concerning testing and scheduling should be directed to:

Mr. Randy Sullivan
H.E. Myers Water Filtration Plant
1475 Hubert Pierce Road
Mobile, Alabama 36608
Phone: 251-378-3483

**IFB 24-030 DEWATERING POLYMER FOR HE MYERS WTP
INSURANCE REQUIREMENTS**

- A. **General:** The Supplier shall provide insurance in accordance with the required specifications. A current certificate of insurance must be provided with your bid. MAWSS does not need to be named as an additional insured on this certificate.
- B. **Supplier Coverage:** The Supplier shall not commence work under this Contract until he has obtained all insurance required under the following paragraphs and until such insurance has been approved by the Owner, nor shall the Supplier allow any subcontractor to commence work on his subcontract until all similar insurance required of the subcontractor has been obtained and approved. If the subcontractor does not take out insurance in his own name, the Supplier shall provide such insurance protection for the subcontractor and such subcontractor's employees.
- C. **Casualty Insurance:** The following insurance coverages (with limits not less than specified herein) shall be maintained by the Supplier for the duration of the Contract, affording coverage for any claim arising out of Supplier's operations herein, whether by the Supplier or by any subcontractor or by any Employee or Agent of either:
1. Claims of employees under Worker's Compensation and other similar employee benefit acts, including claims because of bodily injury, occupational sickness or disease, or death.
 2. Claims arising out of bodily injury, sickness, disease, or death of any person other than employee.
 3. Claims for damages arising out of libel, slander, false arrest, detention or imprisonment, malicious prosecution, defamation or violation of right of privacy, wrongful entry or eviction or other right of private occupancy, including claims as a result of an offense related to the employment of a claimant by Contractor (so-called "Personal Injury").
 4. Claims arising out of damage to or destruction of tangible property, including loss of use.
 5. The Supplier shall furnish certification of insurance and policies verifying that the above coverages are in effect before commencing any work, and that each policy is endorsed to give the Owner 30 days notice in writing in the event of cancellation or material change therein.

Policies of Insurance shall state that the Owner and the Owner's employees be named as additional insureds on the Supplier's Automobile Liability and Commercial General Liability policies. In respect to Worker's Compensation, a Waiver of Subrogation shall be issued in favor of the Owner. Where applicable, the U.S. Longshore and Harborworkers Compensation Act Endorsement shall be attached to the policy. Where applicable, the Maritime Coverage Endorsement (to include coverage under Jones Act) shall be attached to the policy. Both the U. S. Longshore and Harborworkers and the Maritime Coverage shall have limits equal to or greater than the employer's liability coverage.

6. Rated by AM Best – A- or better. For nonadmitted companies, a rating of A or better by AM Best.
 - a. At the discretion of the Board, worker's compensation insurance may be placed through a qualified worker's compensation self-insurance fund.

b. **Limits of Liability:**

Worker's Compensation	Statutory
Employers' Liability	\$500,000 Each Accident \$500,000 by Disease, Policy Limit \$500,000 by Disease, Each Employee
Commercial Automobile	\$1,000,000 Each Accident Bodily Injury and Property Damage Combined Business Auto Includes All Owned, Leased, Hired and Non-Owned Automobiles
Commercial General Liability	\$1,000,000 per Occurrence \$1,000,000 Personal & Advertising Injury \$2,000,000 General Aggregate per Project \$2,000,000 Products & Completed Operations Aggregate \$100,000 Fire Damage Liability

Umbrella Liability: In addition to the basic limits previously set out for Commercial General Liability, Products and Completed Operations, Automobile Liability and Worker's Compensation and Employer's Liability, Suppliers shall provide Umbrella Liability limits of \$5,000,000 per occurrence and aggregate. Coverage shall be issued with a "pay on behalf of" wording, including Personal Injury and other extensions, and provide coverage at least as broad as that afforded by the primary insurance policies.

Extensions (only if applicable):

Blanket Contractual Liability	Blanket Collapse and Underground Coverage
Personal Injury	Broad Form Property (including Completed
Host Liquor Liability	Operations)
Non-owned Watercraft Liability	Employees as Additional Insureds
Worldwide Products	Incidental Medical Malpractice
Fire Legal Liability	Extended Bodily Injury (Assault and Battery)
Newly Acquired Organizations	

When and if the use of explosives for blasting purposes appears necessary or desirable, such methods shall not be undertaken without written authorization of the Owner, and then only provided that acceptable extensions of liability coverage have been obtained specifically to include the explosion ("X") hazard and the collapse ("C") hazard. The policy of general liability shall include the special underground property damage coverage (providing the so-called "U" hazard) on a blanket basis.

- D. **Owner's Protective Liability:** The Supplier shall furnish from a carrier acceptable to the Owner, a policy of liability insurance, commonly called "Owner's Protective Liability" in the name of the Board of Water and Sewer Commissioners of the City of Mobile, d/b/a MAWSS, providing "Independent Contractor's Coverage" for the operations embraced by this Contract with limits of \$1,000,000 bodily injury and \$1,000,000 property damage. Policy shall be endorsed that the premium is to be paid by the named Supplier.

END OF INSURANCE

IFB 24-030 DEWATERING POLYMER FOR HE MYERS WTP
BID SHEET

Price per pound of product #1 \$ _____

Name of product _____

Price per pound of product #2 \$ _____

Name of product _____

Delivery Time ARO: _____ Payment Terms _____
(After receipt of order)

Company Name _____

Address _____

City, State, Zip _____

Submitted By _____ Title _____
Please Print

Phone _____ Email Address _____
Please Print

The signer declares under penalty of perjury that she/he is authorized to sign this document and bind the company or organization to the all of the terms and conditions of this agreement.

Signature _____ Date _____