



Ref.: RE24-30 (Chemicals for Water treatment/Cooling Tower – Yearly Agreement)

Date: Nov 05, 2024

Invitation to BID

1. Purpose:

The American University of Beirut Medical Center invites proposals to bid for the following:

Scope:

Chemicals for Water treatment/Cooling Tower – Yearly Agreement)

Quantity / Specs :

As per attachments

A- Site Inspection: Not Applicable

2. Proposal Requirement:

- Prices should be quoted in **US \$** delivered to AUB inclusive of all expenses (unless otherwise specified in your proposal).
- Prices should be quoted net of any discounts or allowances and exclusive of VAT
- All proposal documents must be signed by an authorized representative of the supplier, each page must be initialed and the final page must be signed and dated.

3. Submission Deadline Date and Venue :

Proposals must be submitted on or before **Nov 18, 2024**, Monday to Friday: 8:00 a.m. till 13:00 p.m. to the following address:

American University of Beirut – Medical Center
Medical Bids

Medical Administration Building, 7th floor, Room 704

No bids are accepted after the above mentioned date, in the event that AUB offices are officially closed on the date the proposals are due, the deadline for submission shall be automatically extended until the next business day

All Proposals shall be submitted in sealed envelopes carrying:

- a. Supplier's stamp
- b. Bid Reference
- c. Company name

N.B: Bids submitted by fax or erroneously sent directly to Procurement department will not be considered or even acknowledged

4. Apology:

In case the requested items are not available, or you do not want to participate in this bid, you are kindly requested to respond by submitting a written apology indicating the reason and the bid reference number or you can send an apology by e-mail.

5. Payment:

Please suggest your payment terms .





6. Insufficient Data:

It is the responsibility of the person submitting the proposal to ensure the completeness of the information submitted. Failure to do so may result in the elimination of the proposal from consideration.

7. Costs:

The university will not be liable for any costs incurred by Suppliers for developing the proposal, performing presentations or demonstrations, and any other expenses incurred by the Suppliers before the award and contract signature

8. Disclosure:

Supplier represents and certifies that the offer has not been knowingly disclosed directly or indirectly to any competitor or AUB staff or other supplier before the opening of proposals by AUB. Supplier represent and certifies that the financial terms have been established independently without consultation, communication, or agreement for the purpose of restricting competition or any matter relating to such prices with any competitor or other supplier. Supplier represents and certifies that no attempt has been made to induce any other company or person to submit or not to submit a proposal in response to this RFP for the purpose of restricting competition.

9. Proposal award policy:

The University reserves the right to reject any or all proposals and to award this tender in whole or in part to the supplier or suppliers that, in its opinion, offers the most advantageous combination of cost, quality, service and other factors which in its sole discretion are deemed important to the University. AUBMC may accept or reject any or all bids and shall not be required to provide justification for any such selection or rejection. AUBMC may also cancel this invitation to bid at any stage, whether before or after the selection of the successful bidder (but prior to signature of the contract) without having to provide any justification and without incurring any liability whatsoever as a result thereof.

10. Validity:

Proposals submitted shall be valid for at least **6 Months** from the date of submission. Proposals will be treated as final and binding offers and may not be amended or withdrawn

11. Results

Bidders can check the bid's status and results by visiting the below web link:

http://www.aubmc.org/patientcare/adm_ser/Pages/Purchasing-BidRfp.aspx

Mohamad Walid Halwani
Deputy Procurement Director
Cc. Medical bids / Internal Auditor


5/11/2024





Bid RE24-30 Chemicals for water treatment / Cooling Tower – Yearly Agreement

Scope:

To provide high quality cooling tower chemicals to maintain the efficiency and effectiveness of AUBMC cooling tower system. The chemicals must comply the requirements and all relevant industry standards and regulation.

BOQ:

Attached

Report/Service:

Awarded supplier will be asked to offer full technical support, including two monthly visits. During these visits, they assess and adjust the concentrations of supplied chemicals to maintain desired levels. The process is documented in written reports, ensuring accountability and compliance.

Pricing:

Maintain unchanging prices for duration of the agreement (12 month).

Deliveries:

Shipments will be in partial deliveries according to AUBMC demand.

Brand representation aspect:

All participants submitting bids should fulfill the condition of being the agent for the submitted brand for a minimum duration of five years. This requirement is crucial to ensure a stable and enduring partnership that aligns with our strategic objective.

RE24-30	Chemicals for Water Treatment Cooling Tower - BOQ
	Yearly Consumption

Item	Description	Specifications	Yearly Estimated Quantity in Kg
1	Depositrol BL 6501	<p>Aqueous acidic solution of phosphonates and polymers</p> <p>Depositrol BL6501 is specifically designed to inhibit and control scale and deposit formation in cooling systems. It is very effective for the inhibition of hardness scales such as calcium and magnesium carbonate.</p> <p>Depositrol BL6501 contains the new stress tolerant polymer (STP) designed for calcium phosphate scale control and particulate dispersion. It provides unparalleled deposition control compared to conventional sulfonate-based polymeric dispersants. It is a superior dispersant for insoluble iron.</p> <p>Depositrol BL6501 is also an excellent precipitation/deposition inhibitor for zinc salts. In some applications Depositrol BL6501 is effective for the control of manganese deposits in cooling systems.</p> <p>In open evaporative cooling systems it would typically be applied in systems operating under alkaline pH conditions that results in the water becoming supersaturated with respect to calcium carbonate solubility.</p> <p>Depositrol BL6501 will allow such systems to operate at a Langelier Saturation Index up to +2.5. Operation under such conditions would typically reduce the corrosion potential of the cooling water.</p> <p>Ingredients:</p> <ul style="list-style-type: none"> - Phosphonic acid, 1-Hydroxyethylidene, % >=10 - 2- Propenoic acid polymer with acid monosodium salt, % >=10 - 2- Propenoic acid polymer with sulfo ammonium salt, % >=10 - Polycarboxylic Acid polymer, % >=20 	5,000
2	Flogard MS 6217	<p>Aqueous acidic solution of inorganic salt and polymer</p> <p>FloGard MS6217 is a mild steel corrosion inhibitor containing zinc phosphate and phosphonate, specifically designed for use in cooling water systems.</p> <p>FloGard MS6217 may also be used to supplement other corrosion inhibitors and/or deposit control agents to compose a complete treatment program for open evaporative cooling systems.</p> <p>Ingredients:</p> <ul style="list-style-type: none"> - Phosphoric acid, % 10 - 25 - Zinc Sulphate, % 10 - 25 - Phosphate, % 10 - 25 	2,250

3	Inhibitor AZ 8104	<p>Aqueous alkaline solution of organic heterocyclic compounds</p> <p>Inhibitor AZ8104 is a unique azole chemistry used for the inhibition of copper and copper alloy heat exchange surfaces. The material is used to establish a protective inhibitor film on the metal surface.</p> <p>Inhibitor AZ8104 is unique because it is compatible with oxidising biocides and halogen resistant. This makes it a good choice for cooling systems using chlorine or bromine for microbiological control.</p> <p>Indirectly, it also reduces the corrosion of steel surfaces within the cooling circuit. This occurs if the steel corrosion is a result of a galvanic reaction between the steel surface and the products of copper corrosion that have been deposited on the steel surface.</p> <p>Ingredients:</p> <ul style="list-style-type: none"> - Sodium methyl benzotriazolide, % <20 - Chlorotolyltriazole sodium salt, % 10 - 25 - Sodium hydroxide, % 0.5 – 2 	2,250
4	Spectrus OX 1201	<p>Precursor Biocide</p> <p>Spectrus™ OX1201 (40% sodium bromine by weight) is a safe, easy-to-use source of bromine in liquid form. The bromine in this product is present as inactive bromide ion (31 - 60% Br⁻). It must be oxidized to Br⁺ in order to exert a toxic effect on micro-organisms. Conversion of Br⁻ to Br⁺ is usually achieved by co-feeding Spectrus OX1201 with chlorine (either gas or liquid bleach). In water, oxidation of Br⁻ to Br⁺ results in the formation of hypobromous acid (HOBr), which is superior to hypochlorous acid (HOCl) for control of microbes in ammonia contaminated, high pH, and/or once-through waters and cooling towers.</p> <p>Ingredients:</p> <ul style="list-style-type: none"> - Sodium Bromide, % 30 - 60 	5,000
5	Spectrus NX 1164	<p>Non Oxidizing Biocide</p> <p>Spectrus* NX1164 is a proprietary, water based blend of non-oxidising biocides which is used to control microbial populations in open evaporative cooling systems. Control of microbial populations in cooling systems is essential in order to prevent biofouling. Biofouling in heat exchangers and cooling tower fill reduces heat transfer efficiency leading to higher energy costs. Biofouling can also damage equipment through microbiologically influenced corrosion (MIC) and force unscheduled shutdowns, or extended turnarounds, resulting in lost production.</p> <p>Spectrus NX1164 is typically used on an intermittent basis, and may be used in a program which includes oxidizing biocides.</p> <p>Spectrus NX1164 is applied as a disinfectant, fungicide and/or slimeicide for commercial and industrial recirculating cooling water systems,.</p> <p>Ingredients:</p> <ul style="list-style-type: none"> - Izothiazoline in aqueous solution, % 0.6 – 2.5 - Magnesium nitrate, % 1 – 5 	2,000

6	Hypersperse MDC 704	<p>Deposit control agent for Reverse Osmosis Excellent results as a replacement for softener filters Compatible with coagulant Certified for use in producing potable water (Certified to NSF/ANSI Standard 60) Highly effective over a wide-range of waters For calcium-based and sulfate-based scales, notably barium sulfate Compatible with all of the leading RO membranes Maintains cleaner membrane surfaces by inhibition and dispersing particulate foulants Effective over a wide pH range May be fed neat or diluted Compatible with feedwaters that contain aluminum and iron oxides Hypersperse* MDC704 is a highly effective liquid antiscalant/antifoulant developed to control scale precipitates and reduce particulate fouling within membrane separation systems. Ingredients: - Disodium phosphonate, % 1 – 5 - Polymer hydroxyethylidene phosphonate, % >10</p>	1,000
7	Chlorine liquid 15%,	<p>Oxidizing Biocide Chlorine based sanitizer for water. It is a 15% chlorine solution for the sanitization of water systems. It can be used both for online continuous chlorination or shock treatment. Ingredients: Sodium Hypochlorite, % 15</p>	6,000
8	Sulfuric acid 50%	<p>pH reducer Used to reduce alkalinity in the water and consequently reduce pH. It can be used both for online continuous dosage or shock treatment. Ingredients: Sulfuric acid, % 50</p>	4,000
9	Soda Ash	<p>pH controller Used to control pH in water, neutralizing acidity and eliminating issues with corrosion. It can be used both for online continuous dosage or shock treatment. Ingredients: Sodium Carbonate, % 99.8</p>	500
10	SMBS	<p>AntiOxidant Used to remove free chlorine from water and scavenge oxygen. It can be used both for online continuous dosage or shock treatment. Ingredients: - Sodium Metabisulfite, % 98 - Sodium sulfite, % 1 - Sodium sulfate, % 1</p>	500