



Water Treatment Research Pilot Unit - OPPORTUNITY OVERVIEW

<p>Request for Proposal (RFP):</p>	<p>The Dow Chemical Company (TDCC/Dow) is issuing this Electronic <i>Request for Proposal (RFP)</i> to obtain pricing from suppliers for a Water Treatment Research pilot unit involving ultrafiltration, reverse osmosis and ion exchange resins</p> <p>This proposal will help us to define a sourcing strategy on a European basis.</p> <p>Dow's diverse, industry-leading portfolio of businesses offers a broad range of technology-based products and solutions to customers in approximately 160 countries. Dow Purchasing collaborates with suppliers around the world to help our businesses meet their objectives for profitability, growth, innovation, and sustainability. As one of the world's largest and most dynamic chemical companies, Dow understands that investing for growth worldwide includes cultivating strategic supplier relationships and that is why we are having an open tender.</p> <p>Elevated environmental, health and safety practices for chemicals throughout the value chain, including manufacture, transport and use allows Dow to recognize that its suppliers and service providers play a vital role in its ability to do business and Dow Purchasing strives to create and maintain healthy working supplier relationships. We look forward to working with you as a part of our strategic sourcing process.</p>
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<p>About Dow</p>	<p>Dow (NYSE: Dow) combines the power of science and technology with the "Human Element" to passionately innovate what is essential to human progress. The Company connects chemistry and innovation with the principles of sustainability to help address many of the world's most challenging problems such as the need for clean water, renewable energy generation and conservation, and increasing agricultural productivity. Dow's diversified industry-leading portfolio of specialty chemical, advanced materials, agrosociences and plastics businesses delivers a broad range of technology-based products and solutions to customers in approximately 160 countries and in high growth sectors such as electronics, water, energy, coatings and agriculture. In 2016, Dow had annual sales of about \$49 billion and employed approximately 50,000 people worldwide. The Company's more than 5,000 products are manufactured at 188 sites in 35 countries across the globe. References to "Dow" or the "Company" mean The Dow Chemical Company and its consolidated subsidiaries unless otherwise expressly noted. More information about Dow can be found at www.dow.com.</p> <p>Dow Water & Process Solutions has a legacy of providing innovative water and process solutions to both communities and industries alike. As a differentiated business unit of The Dow Chemical Company, Dow Water & Process Solutions offers a broad portfolio of ion exchange resins, reverse osmosis membranes, ultrafiltration membrane, and electrodeionization products with strong positions and expertise in a number of major application areas, including industrial and municipal water, industrial processes, power, residential water and wastewater and water reuse. Its mission is to provide membranes and ion exchange resins that are used throughout the world for the full spectrum water treatment applications and especially in water recycling and reuse.</p>
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	<p>Dow Water and Process Solutions has a large experience in developing specific products for water recycling and reuse, specifically for improving performance while decreasing the environmental impact of treatments. The firm continues to redefine the parameters of how water can be utilized to fuel business opportunities, conserve energy resources, and improve quality of life.</p>
<p>Project Background</p>	<p>Through this project Dow wants to evaluate the possibilities on a Water Treatment Research pilot unit involving ultrafiltration, reverse osmosis and ion exchange resins for demonstrating an innovative recycling scheme to increase the water efficiency in the petrochemical industry, REWATCH (LIFE15 ENV/ES/000480).</p> <p>The main objective of LIFE REWATCH is to decrease the environmental impact of the petrochemical industry by demonstrating and disseminating the technical feasibility of an innovative water recycling scheme. Dow's project participation includes a research pilot unit design and construction based on separation technologies to treat the generated wastewater resulting in a more efficient use of water in petrochemical plants.</p> <p>The Research pilot unit will be located at Dow Chemical Ibérica Petrochemical Complex in Tarragona (Olefins plant located in La Pobla de Mafumet), Spain during the REWATCH project duration (2018-2020).</p>
<p>Project Scope</p>	<p>Design, equipment procurement, construction, electrical package, control and automation package, testing and delivery on-site of a water treatment system at pilot plant scale for research and innovation purposes, consisting of the following technologies: self-cleaning filters, Ultrafiltration, Reverse Osmosis and Ion Exchange Resins.</p> <p>Plant capacity (feed flow):</p> <ul style="list-style-type: none"> - Screen filter: 12 m³/h - Two Ultrafiltration lines (UF A, UF B): up to 5.5 m³/h each - Two Reverse Osmosis lines (RO A, RO B): up to 2.5 m³/h each - Ion Exchange Resins section (IER): up to 2.2 m³/h <p>Pilot unit and all equipment to be installed in 2 standard 40 feet marine containers that will be installed side-by-side.</p>
<p>Contact Names for Additional Information:</p>	<p>Dow will respond to any written or verbal requests for additional information relating to this RFP.</p> <p>If you have questions regarding the RFP, please contact</p> <p style="text-align: center;">Ramón Revenga Phone: +34 977559104 revenga@dow.com</p>
<p>Completing the RFP</p>	<p>The tender will follow these steps:</p> <p>Phase I: Reply to Request for Expressions of Interest. Provide following information:</p> <ul style="list-style-type: none"> - E-mail to Request for Expressions of Interest. Include in this e-mail legal company name, complete address and name of legal representative. - Signed Letter of prerequisites



	<p>In the letter of prerequisites, bidder accepts and confirms the following statements: Bidder is not found within the following situations:</p> <ul style="list-style-type: none"> - is bankrupt or being wound up - has suspended its activities or its activities are administered by a court - has been found guilty of grave misconduct - has not paid taxes or social security contributions - has made false declarations to a public authority. <p>Bidders to use their own letter template. Letters must be signed by a legal representative. Once Expression of Interest has been issued:</p> <ul style="list-style-type: none"> - Signature of a Non-Disclosure Agreement. Dow Water & Process Solutions will provide the template. <p>Phase II: Clarification period</p> <ul style="list-style-type: none"> - Dow to send RFP full package with plant specifications - Bidders can contact Dow for RFP clarification <p>Phase III: Bidders to send proposals. Proposals should include (details found in RFP full package):</p> <ul style="list-style-type: none"> - Economic tender - Technical tender <p>Phase IV: Evaluation of proposals and appointment of winner offer. Dow to evaluate proposals according to award criteria described in RFP full package.</p> <p>Phase V: Clarification and negotiation phase with selected bidder.</p>
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RFP Results	<p>This RFP will help Dow determine which supplier they should consider to build and construct the Water Treatment Research Pilot Unit.</p> <p>Dow will not award business based on the results of this RFP.</p>
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Confidentiality of Responses	<p>This RFP and any and all information supplied by Dow or obtained by the Supplier in connection with the preparation of any Proposal is to be considered confidential and proprietary to Dow. Such information must not be disclosed, reproduced, or used in any way, except for the sole purpose of preparing a Proposal in response to this RFP.</p>
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Timeline:	<p>The following timelines will be followed:</p> <ul style="list-style-type: none"> - Phase I: Reply to Request for Expressions of Interest: to be sent before April 24th by noon (12 pm) local time in Tarragona (Spain), by email to the following address: Ramon Revenga (rrevenga@dow.com). Dow to send each bidder a NDA to be signed (May 2nd). NDA has to be sent signed by May 8th by noon. - Phase II: Between May 8th and May 15th, clarification period. - Phase III: Bidders to send proposals. Submission deadline: May 29th, by noon (12 pm) local time in Tarragona (Spain), by email to the following address: Ramon Revenga (rrevenga@dow.com).
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	<ul style="list-style-type: none">- Phase IV: Evaluation of proposals and appointment of winner offer. Communication of the result will be sent by email by June 5th. - Phase V: Clarification and negotiation phase with selected bidder by June 12th. <p>Proposals are not accepted later to the submission deadline. Timelines are referred always as natural days.</p>
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