

State of Israel



Water Quality Division

# **The Israeli Water and Sewage Authority**

## **Ramat Ha'sharon Groundwater Contamination Full Scale Treatment Facility**

**R.F.I**

**Request For Information**

**April 2016**

**FULL SCALE TREATMENT PLANT**

PERCHLORATE, RDX, HMX AND CHROMATES REMOVAL FROM CONTAMINATED GROUND WATER

**REQUEST FOR INFORMATION**

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1. **General**

1.1. The Israeli Governmental Authority for Water and Sewage via its Water Quality Division ("**WA**"), is currently considering the core principles on the basis of which an intended international public tender shall be published for the selection of a contractor who shall be responsible for the design, installation, operation and maintenance of a **Full Scale Treatment Plant** treating and removing contaminated groundwater from the Ramat Hasharon Israel Military Industry site ("**FSTP**" and "**IMI**", respectively).

1.2. The principal objective of the FSTP is to treat contaminated groundwater, *inter alia*, in order to stop the expansion of the contaminated groundwater plume and rehabilitate the groundwater quality to enable unlimited use thereof.

It is noted that the construction and operation of the FSTP is one of the condition precedents for the commencement of construction works therein.

1.3. For the above purpose the WA is hereby publicly invites local and foreign entities who believe they hold the relevant know-how, capabilities and experience necessary to undertake the remediation activities required to achieve the FSTP's objectives to respond to this Request for Information procedure ("**RFI**" or "**RFI Process**") conducted pursuant to the provisions of **Article 14A** of the **Mandatory Tenders Regulations, 5753-1993** ("**Regulations**").

2. **Pilot Demonstration Plant**

2.1. Towards the preparation of the FSTP tender the WA has published an international tender for the design, construction, operation and maintenance of a pilot scale demonstration plant facility treatment of contaminated groundwater within the vicinity of the IMI site ("**Pilot**"). A Joint Venture consisting of Shikun & Binui Water Ltd & Envirogen Technologies Inc.

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who have participated in the tender and declared as the contractor – have successfully executed the Pilot facility.

2.2. The Pilot was based on biological treatment and supporting physico-chemical treatment. Detailed information relating to the Pilot shall be included in the FSTP tender.

**3. Initial Reference Data**

3.1. The groundwater at the IMI site and vicinity thereof, is contaminated with diverse military industry pollutants such as perchlorate, chlorate, nitrate, metals and explosive components such as RDX and HMX.

3.2. The current remediation plan includes drilling of 6 production wells in the center of the perchlorate, RDX and chromate plumes, producing 50-100 m<sup>3</sup>/hr each (total discharge : 500-600 m<sup>3</sup>/hr) for 20-25 years.

The contaminated water will be treated to a level that would allow unlimited use.

The approximate (evaluated) concentrations of the different pollutants in the FSTP's inlet are:

<b>ClO<sub>4</sub></b>	<b>ClO<sub>3</sub></b>	<b>RDX</b>	<b>HMX</b>	<b>NO<sub>3</sub></b>	<b>Cr</b>
mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit
300	120	0.220	0.01	190	0.350

3.3. The figure hereunder demonstrates the evaluated forecasted reduction of Perchlorate concentration in the FSTP's inlet as of its operation

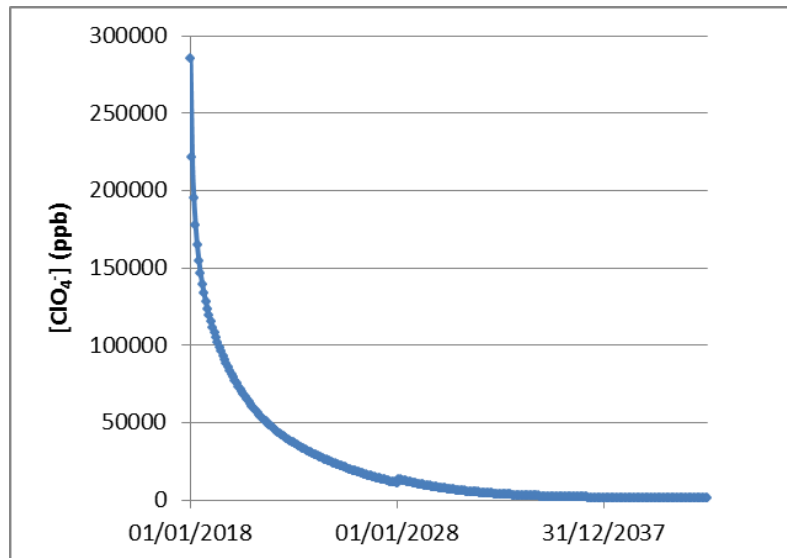
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commencement.



- 3.4. Note, the information provided within the framework of this RFI (and as attached thereto), is provided to the Responders for convenience purposes only and for reference use only – and should be considered accordingly. The WA or anyone on its behalf shall not be responsible to the accuracy or correctness of such information, and shall not be obligated to provide the Responders any updates with respect thereto.

4. **RFI Objectives**

This RFI is aimed at:

- 4.1. Providing the WA with in depth information and data elaborating on potential and feasible technologies involving biological treatment of perchlorate and/or nitrate (excluding municipal wastewater treatment for nitrate removal) and relevant technology providers.
- 4.2. Providing the WA with reference that may assist it – should it deem applicable - in defining the framework, parameters and requirements of the FSTP tender and contract.

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**5. Information Requested**

**5.1. Information Sought by the WA – in view of the above RFI Objectives**

- (a) Responder's details and general profile;
- (b) Responder's past experience in the field of contaminated groundwater treatment;
- (c) Project type (turnkey; DB- Design Build; DBO-Design Build Operate; BOT- Build Operate Transfer, else);
- (d) Description of relevant projects including: owner / customer, location, project description, stages and duration of each and date on which the facility commenced operation, objectives, technology and treatment units description, project economics (investments, operating costs, financing), source water description and main composition, pollutant inlet and outlet concentration, flow rates, current operation statuses;
- (e) Composition of the Contractor (single entity, JV other) involved in the presented projects and the expertise and role executed by each member during each of the stages including key staff members and personnel.

**5.2. RFI Response**

- 5.2.1. Interested entities wishing to provide responses to the Information sought under the above Section 5.1 (Information Sought by the WA), shall send its written response to the WA's POC's email as set forth under Section 6.2 below **on** Submission Date, as set forth under Section 6.3.5 below ("**RFI Response**").
- 5.2.2. The RFI Response may relate to additional issues the Responder deems relevant and which were not identified under the aforesaid Section 6.3.5.

**6. RFI Procedural Provisions**

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6.1. **WA's Website** – this RFI as well as any Clarifications to be issued shall be uploaded to the WA Website:

[www.water.gov.il/Hebrew/Tenders/Pages/default.aspx](http://www.water.gov.il/Hebrew/Tenders/Pages/default.aspx).

6.2. **WA's POC** – Mrs. **Raya Bely**, email address: [Michrazim@water.gov.il](mailto:Michrazim@water.gov.il).

6.3. **RFI Schedule**

6.3.1. **RFI Publication** - April 21, 2016.

6.3.2. **Responder Registration** – shall be done with the WA's POC as of RFI Publication until Submission Date.

6.3.3. **Last Date for Clarifications sought by Responders** - May 4, 2016.

6.3.4. **Last date for Issuance of Clarifications by the WA** - May 11, 2016.

6.3.5. **Submission Date** - May 18, 2016. RFI Responses shall be made to the WA's POC's email address. Responders shall hold the sole responsibility to be provided with the WA's POC's confirmation that the RFI Response was adequately received.

**The WA may, at any time and at its sole discretion, change any of the dates provided herein.**

6.4. **Clarifications**

6.4.1. **Responder's Request for Clarification** - Responders may approach the WA's POC in any need of a clarification. In the event the WA chooses, at its sole discretion, to respond to a clarification sought – it shall distribute its response to all Responders while excluding the identity of the Responder requesting the clarification. If it deems beneficial for the RFI – the WA may draft the clarification sought in a different manner to the one submitted.

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It is the Responder's sole responsibility to ensure a Clarification sent by it was indeed received by the WA's POC.

6.4.2. **Clarification issued at the WA's Initiative** – the WA may, at any time up to Submission Date, issue clarification on its Initiative.

6.4.3. Responses to Clarifications and Clarifications issued at the WA's initiative shall be distributed to the Responder's POC as documented within the framework of its registration as provided under Section 6.3.2. In addition the Clarifications and all documents regarding this RFI shall be uploaded to the WA's website's address:

[www.water.gov.il/Hebrew/Tenders/Pages/default.aspx](http://www.water.gov.il/Hebrew/Tenders/Pages/default.aspx).

6.4.4. **RFI Response Clarifications** – the WA reserves its right to request specific clarifications regarding the contents of the RFI Response. The WA may exercise such right with regard to one, several or all Responders as it may deem required.

6.4.5. The WA reserves the right to request additional or complementary information (written or oral) from any entity, whether a responder to this RFI or not. Accordingly the WA reserves its right to modify this RFI or hold additional RFI's as it may deem fit.

**6.5. Participation in RFI Process - Free of Charge**

6.5.1. The Participation in this RFI is free of charge. For the avoidance of any doubt the WA shall in no event and under no circumstance pay Responder's for RFI Responses or for the use of part or all of the Information provided therein (should such use be made subject to the WA's sole discretion).

6.5.2. The Responder shall bear all costs incurred in responding to the RFI and furnishing the requested information or clarifications.

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**6.6. Effect of Participation**

In addition to the stipulations set forth under Article 14A of the Regulations, it is hereby further provided

6.6.1. **RFI Participation Non Mandatory** - the submission of information in response to this RFI is **voluntary**. Accordingly, Participation in the RFI **is not a condition precedent for participation in the Tender nor shall it constitute any advantage whatsoever.**

6.6.2. Accordingly, entities' not participating in this RFI shall not be prevented from participating in the FSTP future tender provided they shall comply with the requirements to be determined.

6.6.3. Accordingly, participation in the FSTP tender process (if conducted and in the manner conducted), shall not grant any advantage or privilege whatsoever to the Responder nor shall it impose any commitment or obligation on the WA or derogate from any of its rights and privileges under the applicable laws and regulations.

6.6.4. Without derogating from the above and in view of the RFI Objectives, as provided under Section 4 above, the WA attaches **importance** to the RFI Process, and would appreciate responders that would do the same and will provide full, comprehensive and updated information within the framework of their RFI Response.

**6.7. Use of Information – at the WA's Full and Sole Discretion**

6.7.1. The WA shall be entitled to make use of all Information included in the RFI Response for any purpose including for the purpose of the future FSTP preparation of tender and contractual

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documents (and terms and conditions thereof), technical specifications, schedule, and financial aspects.

By submitting their RFI Response – the Responders provide their complete irrevocable consent thereto.

6.7.2. Notwithstanding, Responders may identify information considered by them to be confidential or of sensitive or secret nature. The WA will not publicly disclose information that was identified as confidential, proprietary or of secret or sensitive nature, subject to any applicable law including the provisions of Articles 14A(f) and 21(e) of the Regulations.

6.7.3. The WA is under no obligation whatsoever to use Information submitted in response to the RFI. Accordingly the initiation of the RFI and submission of Information in response thereof, shall not be construed as applying any obligation whatsoever upon the WA or anyone on its behalf to make use of the Information. Accordingly the WA may determine, on its sole discretion, not to make use of the Information, or make only partial use thereof.

6.7.4. The WA may also choose, at its sole discretion, to make use of Information provided to it by several Responders including with regard to a specific topic asked and responded to. As such the WA is not bound to make use only of information provided by one Responder.

**7. Miscellaneous**

**7.1. RFI Annulment – at WA's sole discretion**

The WA may annul the RFI Process at any time as of its issuance. The aforesaid right of the WA is reserved to it also after the Submission Date.

**7.2. WA Absence of Liability**

7.2.1. The WA shall not be responsible or liable towards the Responders or anyone on their behalf with regard to any issue

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relating to this RFI including its conduct, contents provided therein, the annulment thereof (as provided under Section 7.1 above) or any other matter relating directly or indirectly with respect thereto.

7.2.2. This RFI shall not be deemed as a request for proposals, offer or an engagement of any kind; shall not constitute a commitment, implied or otherwise on behalf of the WA to execute the FSTP project, the manner by which it shall be conducted; constitute and right of the Responder with regard to future proceedings including the FSTP tender; and shall not restrict or oblige the WA, in any manner, in its eventual execution of FSTP project.

7.2.3. The WA, in any event, shall not pay Responders for their participation in the RFI process or reimburse them for any expense or cost.

**7.3. FSTP Determinations**

The WA shall be entitled to determine the terms and conditions of the FSTP future tender and contract, in any manner it shall deem fit, at its full and sole discretion.

**7.4. Applicable Law and Jurisdiction**

7.4.1. This RFI, its interpretation and any matter relating thereto shall be governed by the laws of the state of Israel.

7.4.2. The jurisdiction is hereby exclusively provided to the competent court of the Tel-Aviv District, Israel.

**7.5. Responders Consent to RFI Terms**

Participation in the RFI Process shall be construed as the Responders complete and irrevocable consent to all terms of this RFI including the WA's rights and discretion as provided herein and laws and regulations.

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