

State of Israel



Ramat Ha'sharon Groundwater Contamination Full Scale Treatment Facility

Request For Information

R.F.I

January 2017

FULL SCALE TREATMENT PLANT

PERCHLORATE, CHLORATE, NITRATE, RDX, HMX AND CHROMATES REMOVAL FROM CONTAMINATED
GROUND WATER - REQUEST FOR INFORMATION

1. **General**

- 1.1. On January 30, 2011, the Government of the State of Israel has voted in favor of a decision titled: "Coping with the Water Crisis"¹. Article 5 of the decisions instructed the Israeli Water Authority ("**WA**") to act for the reduction and remediation of groundwater contaminations caused as a result of the Israeli Military Industry ("**IMI**") activity including at the IMI Site at Ramat Ha'sharon (the "**Site**").
- 1.2. On October 2012, an Inter-Ministerial memorandum of understandings was signed by the Israeli Prime Minister's Office, the Ministry of Finance ("**MOF**"), the Ministry of Defense, the Israeli Land authority and the WA wherein the issue of funding groundwater remediation activities at the Site and stages thereof were addressed.
- 1.3. On November 1, 2016, the Government of the State of Israel via the Accountant General has nominated an Inter-Ministerial Tender Committee comprised of: (i) the MOF, (ii) the Ministry of National Infrastructure, Energy and Water Resources, (iii) the WA and (iv) Inbal Insurance Company Ltd., a wholly government owned company ("**Inbal**"), (all, the "**Tender Committee**") for the preparation and issuance of a tender for the execution of a **Full Scale Treatment Plant** treating and removing contaminated groundwater from the Site ("**FSTP**").
- 1.4. The Tender Committee is currently considering the core principles upon the basis of which it intendeds to publish an international public tender for the selection of a contractor who shall be responsible for the design, construction, installation, commissioning, operation and maintenance and finance of the FSTP.
- 1.5. The principal objective of the FSTP is to treat contaminated groundwater, *inter alia*, in order to stop the expansion of the contaminated groundwater

¹ Decision no. 2789.

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plume and rehabilitate the groundwater at Ramat Ha'sharon vicinity and treat the pumping water to a quality that 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.

- 1.6. For the above purpose the Tender Committee 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**").
- 1.7. This RFI Process is issued after a previous RFI process was issued by the WA on April 9, 2016 ("**Previous RFI**"). The Previous RFI documents may be reviewed, free of charge, via: (<http://www.water.gov.il/Hebrew/Tenders/Pages/rfi-ramat-hasharon.aspx>). The Tender Committee determined the publication of this RFI Process is required for several reasons the main ones being: (a) guiding and focusing interested entities vis-à-vis the specific information the WA wishes to consider towards the preparation of the FSTP tender; and (b) ensuring as many entities as possible are aware of the RFI Process and may participate therein by submitting their Response. Responders who have participated in the Previous RFI are encouraged to participate also in this RFI Process.

2. Background and Initial Reference Data

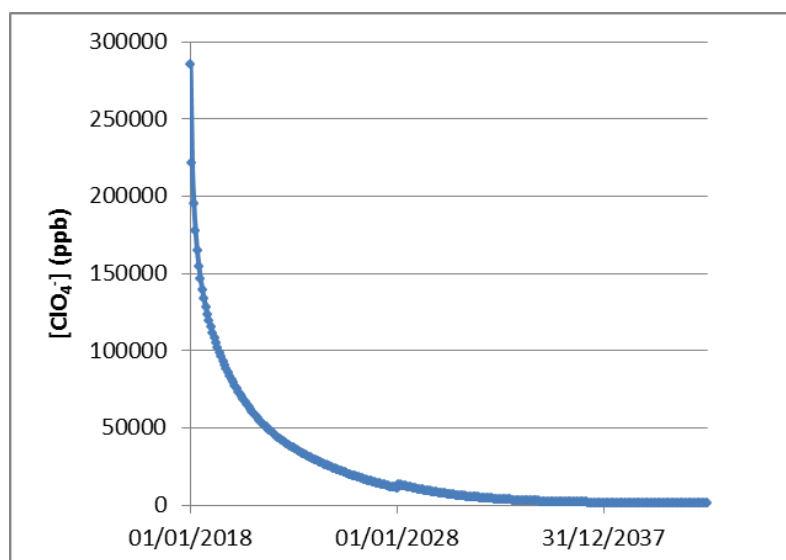
- 2.1. The groundwater at the IMI site and vicinity thereof, is contaminated with diverse military industry pollutants such as perchlorate, chlorate, nitrate, metals and explosive components such as RDX and HMX.
- 2.2. The current remediation plan includes drilling of 6 production wells in the center of the perchlorate, RDX and chromate plumes, producing 50-100 m³/hr each (total discharge : 500-600 m³/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:

ClO₄	ClO₃	RDX	HMX	NO₃	Cr
mg/lit	mg/lit	mg/lit	mg/lit	mg/lit	mg/lit
300	120	0.220	0.01	190	0.350

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



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2.4. 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 Tender Committee or anyone on its behalf shall not be responsible for the accuracy, correctness or completeness of such information, and shall not be obligated to provide the Responders any updates with respect thereto.

3. **Pilot Demonstration Plant**

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

3.2. 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.

4. **RFI Objectives**

This RFI is aimed at providing the Tender Committee with:

4.1. 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. Reference that may assist it – should it deem applicable - in defining the framework, parameters and requirements of the FSTP tender and contract.

5. Information Requested

5.1. Information Sought by the Tender Committee - 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: identity of owner / customer / employer, location, project description, stages and duration of each and date on which the facility commenced operation, shutdowns (planned or unplanned for maintenance or other reasons) objectives, technology and treatment units' description, source water description and main composition, pollutant inlet and outlet concentration, flow rates, current status;
- (e) Composition of the Contractor (single entity, JV other, sub-contracting, manner of sub-contractor's roles, involvement and disciplines thereof) 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. **Response Table** – kindly respond to the information requested within items (a) - (e) above by completing the response table attached hereto as **Annex A**. The Tender Committee will consider responses which do not follow the table pattern but kindly requests Responders to make use thereof whereas it would assist the Tender Committee and its consultants in their review. Responders may add additional Information to the information provided by them in the table by cross reference. Responders who have participated in the Previous RFI (issued by the WA) and wish to refer to their Previous RFI Response or include such response, in whole or in part, in the upcoming RFI Response may do so.

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5.3. **RFI Response**

- 5.3.1. Interested entities wishing to provide responses to the Information sought under the above Section 5.1 (*Information Sought by the Tender Committee*), shall send its written response to the Tender Committee'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**").
- 5.3.2. The RFI Response may relate to additional issues the Responder deems relevant and which were not identified under items (a) - (e) of Section 5.1 (*Information Requested*) and topics listed within the Response Table referred to in Section 5.2 above and attached hereto as **Annex A**.

6. **RFI Procedural Provisions**

- 6.1. **MOF's Website** – this RFI as well as any notification or Clarification to be issued by the Tender Committee with respect thereto shall be uploaded to the WA's website at: <http://www.water.gov.il/Hebrew/Tenders/Pages/RFI-Ramat-Hasharon-Groundwater-Contamination.aspx> and, in addition, to the Government Procurement Administration's Website (denoted in Hebrew: מנהל הרכש הממשלתי): <https://www.mr.gov.il/officestenders/Pages/officetender.aspx?pID=593402> ("**Tender Committee's Website**").
- 6.2. **Tender Committee's POC** – Adv. **Vered Galam**, email address: veredgl@inbal.co.il.
- 6.3. **RFI Schedule**
- 6.3.1. **RFI Publication** – **January 30, 2017**.
- 6.3.2. **Responder Registration** – shall be done with the Tender Committee's POC as of RFI Publication until Submission Date.

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- 6.3.3. **Last Date for Clarifications sought by Responders - March 1, 2017.**
- 6.3.4. **Review of Tender Committee's Clarifications via the MOF Web-Site** - Responders shall hold the sole responsibility to review the WA's responses to Clarification or clarifications issue at the WA's initiative as uploaded to the Tender Committee's and WA's Websites.
- 6.3.5. **Submission Date – April 2, 2017**. RFI Responses shall be made to the Tender Committee's POC's email address provided in the above Section 6.2. Responders shall hold the sole responsibility to be provided with the Tender Committee's POC's confirmation that the RFI Response was adequately received.

The Tender Committee may - at any time and at its sole discretion - amend (add, omit or supplement) any of the provisions of the RFI including any of the dates provided therein.

6.4. **Clarifications**

- 6.4.1. **Responder's Request for Clarification** - Responders may approach the Tender Committee's POC in need of a clarification. In the event the Tender Committee 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 the Tender Committee may draft the clarification sought in a different manner to the one submitted.

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

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

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- 6.4.3. Responses to Clarifications and Clarifications issued at the Tender Committee'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 Tender Committee's Website as provided under the above Section 6.1.
- 6.4.4. **RFI Response Clarifications** – the Tender Committee reserves its right to request specific clarifications regarding the contents of the RFI Response. The Tender Committee may exercise such right with regard to one, several or all Responders as it may deem required.
- 6.4.5. The Tender Committee 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 Tender Committee 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 Tender Committee 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.

6.6. Effect of Participation

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

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- 6.6.1. **RFI Participation Non-Mandatory** - the submission of information in response to this RFI is **voluntary** (similar to the Previous RFI issued by the WA). Accordingly, Participation in the RFI **is not a condition precedent for participation in the Tender nor shall it constitute any advantage whatsoever**. The voluntary participation will allow the Tender Committee to consider information and experience which it may deem relevant for the FSTP tender.
- 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 shall not grant any advantage or privilege whatsoever to the Responder nor shall it impose any commitment or obligation on the Tender Committee 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 3 above, the Tender Committee attaches **importance** to the RFI Process in view of the future FSTP. As such the Tender Committee encourages the participation of Responders and their submittal of full, comprehensive and updated information within the framework of the RFI Response.
- 6.6.5. Participation in the RFI Process does not and shall not constitute a recognition of the Responder's eligibility, qualifications or competence to participate on any future proceeding(s) of the FSTP if and to the extent conducted.
- 6.7. **Use of Information – at the Tender Committee's Full and Sole Discretion**

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6.7.1. The Tender Committee shall be entitled to make any use of part or all Information included in the RFI Response for any purpose including for the purpose of the future FSTP preparation of tender and contractual documents (requirements, 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 Tender Committee 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. The Responder shall be prevented from reviewing information included in the RFI Response, referred to in the aforesaid Article 14A(f), that it applied for its confidentiality in its own RFI Response (regardless of whether such application was confirmed by the Tender Committee as confidential subject to the aforesaid Articles).

6.7.3. The Tender Committee 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 Tender Committee or anyone on its behalf to make use of the Information whether in part or in its entirety. Accordingly, the Tender Committee may determine, on its sole discretion, not to make use of the Information, or make only partial use thereof.

6.7.4. The Tender Committee may also choose, at its sole discretion, to make use of Information provided to it by several Responders

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including with regard to a specific topic asked and responded to. As such the Tender Committee is not bound to make use only of information provided by one Responder.

7. Miscellaneous

7.1. RFI Annulment – at the Tender Committee's sole discretion

The Tender Committee 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. Tender Committee's Absence of Liability

7.2.1. The Tender Committee shall not be responsible or liable towards the Responders or anyone on their behalf regarding any issue relating to this RFI Process 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 Tender Committee 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 Tender Committee, in any manner, in its eventual execution of FSTP project.

7.2.3. The Tender Committee, in any event, shall not pay Responders for their participation in the RFI Process or reimburse them for any expense or cost also in the event the RFI Process is annulled at any stage.

7.3. FSTP Determinations



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

This RFI Process shall not be construed as a representation, undertaking or warranty on behalf of the Tender Committee or anyone on its behalf with respect to the FSTP. The issuance and participation in the RFI Process is not and shall not be intended to guarantee the manner, initiation, execution or implementation of the FSTP, its scope, components or any part thereof.

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 Jerusalem 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 Tender Committee's rights and discretion as provided herein and laws and regulations.

-End-

Attachments:

- (a) **Annex A** – Response Table (see Section 5.2 above).



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Annex A - Response Table

		Project No. 1	Project No. 2	Project No. 3	Project No. 4
Project name					
Client					
Feed water source					
Purpose of treatment					
The use and destination of the treated water					
Contaminant no 1	type				
	Feed conc', mg/l				
	Outlet conc', mg/l				
Contaminant no 2	type				
	Feed conc', mg/l				
	Outlet conc', mg/l				
Contaminant no 3	type				
	Feed conc', mg/l				
	Outlet conc', mg/l				
Contaminant no 4	type				
	Feed conc', mg/l				
	outlet conc', mg/l				
Feed water flow rate	m3/hr				
No of feed water wells (if applicable)					

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		Project No. 1	Project No. 2	Project No. 3	Project No. 4
Description of Contaminant no 1 treatment unit	m3/hr				
Flow rate to Contaminant no 1 treatment unit	m3/hr				
Description of Contaminant no 2 treatment unit	m3/hr				
Flow rate to Contaminant no 2 treatment unit	m3/hr				
Description of Contaminant no 3 treatment unit	m3/hr				
Flow rate to Contaminant no 3 treatment unit	m3/hr				
Description of Contaminant no 4 treatment unit	m3/hr				
Flow rate to Contaminant no 4 treatment unit	m3/hr				
Full process unit description					
Company role in the project					
detailed design executed by					



משרד האוצר
Ministry of Finance

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	Project No. 1	Project No. 2	Project No. 3	Project No. 4
construction executed by				
O&M executed by				
construction start date				
commissioning date				
project operation start date				
number of years of operation				
description of the treatment				
current status of the project				