



Date: Wednesday, August 10, 2022

Subject: Request for Information ("RFI")

Supply of Prestressed Concrete Cylinder Pipelines (PCCP) Condition Assessment

1. General Procedure & Conditions

- 1.1 Mekorot Water Company Ltd. (hereinafter: "Mekorot") is the purchase of services of inspection technology and related services (hereinafter: "the Service"), to identify broken wires in Prestressed Concrete Cylinder Pipelines (PCCP) in a nondestructive manner (hereinafter: "the Method"). The application of this assessment service will not be limited to water distribution pipelines, water transmission pipelines, and wastewater force mains, according to the technical requirements of the assessment, which is attached to the RFI documents.
- 1.2 This RFI is a preliminary process taken by Mekorot mainly for obtaining data and information.
- 1.3 Mekorot may use the data and information received in whole or in part to consider and decide future procedures, at its sole discretion, in order to procure the service and to design the appropriate contractual relationship and conditions, if made, in future Request for Proposals (hereinafter: "RFP") and or contract.
- 1.4 Mekorot does not commit to undertaking any further steps, such as proceeding to a RFP or contract or negotiations, and does not undertake to proceed with this procedure in any form. This RFI does not constitute a tender, a proposal or a RFP in any way. Mekorot reserves the right to cancel this process completely at any stage and for any reason, at Mekorot's sole discretion.
- 1.5 Respondents shall bear all costs associated with the preparation and submission of their responses to the RFI.

2. RFI goals

- 2.1 To provide Mekorot an early understanding of the Service.
- 2.2 To survey all aspects relating to procure the Service.
- 2.3 To collect, study and evaluate information which will provide Mekorot the latest knowledge regarding the possibility of using the Service, and for considering the most appropriate way for future contractual relationships, if made.

3. Communication and Clarifications

Response or questions to this RFI, shall be addressed to Mekorot's contact person by e-mail: **Mr. Nuriel Meraro- Maintenance Engineer.**
nmeraro@mekorot.co.il

4. Submission of Responses

RFI Response submission date is no later than September 8, 2022.

Responses shall be submitted by e-mail to Mr. Nuriel Meraro- Maintenance

Engineer

nmeraro@mekorot.co.il

The submission will include the following details:

[Title of RFI]

[Name and address of the Supplier]

[Name and address of the Local Agent In Israel (if any)]

5. RFI Process and Conditions

5.1 This RFI is a preliminary process taken by Mekorot mainly for the purpose of obtaining data and information. All data and information gathered through this RFI, including, but not limited, references to costs, timetables, future policy etc. is to be treated as a preliminary process only and Mekorot may use this data and information in future procedures at its sole discretion.

5.2 Mekorot may use the data and information received, in whole or in part, for considering and deciding future steps in order to procure the service and to design the appropriate contractual relationship and conditions, if made, in a future RFP or contract or any agreement, at the best interest of Mekorot.

5.3 Mekorot does not commit to undertaking any further step, such as proceeding to an RFP or signing a contract or conducting negotiations and does not commit to proceed with this process in any way. This RFI does not constitute a tender, a proposal or an RFP in any way. Mekorot reserves the right to cancel this process completely at any stage and for any reason at Mekorot's sole discretion.

5.4 To dispel doubt, participation in the RFI process is not a prerequisite for the participation in a future RFP process or negotiations, if made, and Mekorot reserves the right to inspect services that have not been submitted during the RFI stage.

5.5 After the submission date, Mekorot shall study and evaluate all the information gathered during this period. If necessary, discussions, meetings, questions and presentations, including site visits, may take place with all or any of the Respondents at Mekorot's sole discretion.

5.6 Although this RFI has been prepared with due care, any information contained herein is indicative only and is provided in good faith for the guidance of the respondents. No representation, guarantee or undertaking, expressed or implied, is or will be made, and Mekorot has no and shall have no responsibility or liability with respect to the accuracy or completeness of this RFI document, or to any suggestion made by it or in any other written or oral information made available to any interested party or its advisers and any such responsibility or liability is hereby expressly disclaimed.

- 5.7 Respondents shall bear all costs associated with the preparation and submission of their responses to the RFI, including provision for any additional information and attendance at meetings, a site visit and possible demonstration of their proposed service. Mekorot shall neither be responsible for, nor pay for nor bear any expense or loss, which may be incurred by Respondents in relation to their Response to this RFI.
- 5.8 Mekorot reserves the right to consider such Responses which may be appropriate on their merits at Mekorot's sole discretion.
- 5.9 This RFI is, and shall remain, the exclusive property of Mekorot. It may be used for preparing a Response to the RFI.

Applicable laws and jurisdiction

This request for information and everything with respect thereto will be subject to the laws of the State of Israel (except for the rules of private international law applicable in Israel) and will be interpreted and implemented in accordance with them. The competent court in Tel Aviv will have unique jurisdiction to hear any matter related to and/or arising from this proceeding and / or any matter related to and/or arising from the documents of this application, as well as the interpretation of this application or any document related to it in one form or another.

6. Definitions

In this RFI, unless the context otherwise expressed:

- 6.1 "**Supplier**" means any Person or Corporate entity that has the ability to offer Mekorot the Service, according to the technical requirements of the inspection and evaluation method, which is attached as **Part C** of the RFI documents.
- 6.2 "**Representative**" means a Person/Company acting for and on behalf of the Supplier and for whose acts the Supplier is or shall be liable.
- 6.3 "**Response**" means the documents constituting a general response by the Respondent to meet Mekorot's requirements in accordance with the provisions of the RFI.
- 6.4 "**Information**" means all the information requested from the Supplier in this RFI.
- 6.5 **Respondent** means the Supplier or the Representative.

7. RFI Documents

- 7.1 This RFI includes the following parts:
Part A - The Information.
Part B - The Respondent's Response.
Part C – The Technical Requirements.
- 7.2 The Responses shall contain all the documents, information, and details required by the RFI and all additional updated information needed for procurement of the Service to the best knowledge of the Respondent.
- 7.3 The Respondent shall submit the Responses with the Respondent response Form, attached in **Part B**, completely filled out and signed, along with any other documents necessary to complete the Response.
- 7.4 In submitting the Response, the Respondent acknowledges and permits Mekorot to reproduce the Response documents, in whole or in part, for the purposes of evaluation, and for the preparation of, or forming part of any subsequent RFP or contract. **The respondent shall specifically note and mark** any kind of data or information which the Respondent has copyright or any other intellectual property right and Mekorot shall treat it as such.

8. Confidentiality

In submitting the Response, the Respondent undertakes to keep in confidence all and any kind of information and data relating, directly or indirectly, to Mekorot or the State of Israel, which the Respondent may obtain or be exposed to in relation to this RFI.

PART A – The Information

The Response shall refer and reply in detail to all the following clauses:

1. Name and contact details of a Local Representative in Israel (if any).
2. Professional capabilities of the Supplier regarding the service.
3. A detailed list, which includes the Supplier's major customers (at least three), including, but not limited to, customer's contact person for reference (name, title, telephone, e-mail, facsimile).
4. Logistical capabilities that the Supplier has in order to provide Mekorot the Service, including the location of its main office.
5. Details about the Supplier's organization, location, and support, which will be provided to Mekorot if necessary.
6. Price estimate for the proposed service. Prices will be only submitted in euros or dollars, and shall include all taxes, except Israeli VAT.
7. Regulations, standards and licenses under which the Service may be provided.
8. Knowledge and experience of the Supplier in the industry, specifically as it applies to the type of work expected under this project.
9. Brief overview and details regarding the Supplier's recent experience in providing similar services.
10. Brief overview and details regarding the Supplier's ability and capacity to handle the specific project.
11. Any other relevant details or suggestions, which in the Respondents' opinion may contribute to the above.
12. The manufacturer's proven ability to furnish a PCCP inspection and further detailed engineering analysis of the results, which complies with all the conditions set forth in Part C – Technical Requirements – and can operate successfully in the environmental conditions set forth in section 3 of Part C.
13. The Supplier must provide five (5) examples of inspections projects held in the last five years that comply with the requirements set forth in Part C.
14. The Supplier must provide where data quality and accuracy has been verified. Provide evidence that the technology has been utilized on a minimum of 100 miles of pipeline. The Supplier shall provide contact names and address.
15. All above data for PCCP assessment inspection that comply with all conditions set forth in Part C. In this casen the Respondent is required to specifically address the method of inspection for the suggested Mekorot mains.

PART B

Response to Request for Information ("RFI")

For the Supply of Prestressed Concrete Cylinder Pipelines (PCCP) Condition Assessment

I acknowledge that I have read this Request for Information, understand all associated conditions, and have fully acquainted myself with all matters relating to the RFI.

BODY/CORPORATION NAME:

ADDRESS OF REGISTERED OFFICE:

ISRAELI REPRESENTATIVE NAME and ADDRESS (if any)

TELEPHONE:

URL:

FACSIMILE:

DATE: _____

SIGNATURE + STAMP: _____

TITLE: _____

FULL NAME: _____

PART C

Technical Requirements

1. Scope of work

Scope - this specification is for furnishing Inspection Technology and related services necessary to identify broken wires in Mekorot's Prestressed Concrete Cylinder Pipelines (PCCP) in a nondestructive manner as aforesaid while the main is operational. Also provide detailed engineering analysis of the results to provide risk and condition assessment of those mains.

The application of this assessment service includes (but in not limited to) the following water distribution pipelines, and wastewater mains (while the mains are in service):

- a) The National Water Carrier 108"- total length 86 km (the length to be analyzed is 65 km) - sp12
- b) Central District-Western Yarkon main 70"- total length 17 km (the length to be analyzed is 9.7 km) - sp12
- c) Central District-Old Eastern main 66"- total length 23 km (the length to be analyzed is 8.6 km) - sp5
- d) Northern District-Shfaram main 48"- total length 4 km (the length to be analyzed is 4 km) - sp5

2. Description of inspection services needed:

- 2.1 The technology will be able to detect, locate and quantify broken prestressing wire wraps – the main structural component of PCCP. Please elaborate on the minimum quantity of wire breaks the technology can detect.
- 2.2 The inspection technology shall be able to evaluate the pipes wire wraps, while the pipes are operational and cannot be taken out of service due to a lack of redundancy or other operational constraints.
- 2.3 If the technology consists of a free-swimming tool, it shall have the ability to navigate butterfly valves and maneuver 90-degree bends and other pipeline features.
- 2.4 While travelling long distances, data shall be recorded and interpreted by an experienced analyst to pinpoint and quantify locations of distress in the pipes. The inspection Device will be used on pipelines with diameters ranging from 48-inches to 108-inches (but not only).
- 2.5 If needed, the device will be inserted under pressure into a live pipeline via flange connection with full port gate valve (for pipe diameters 48- to 60-inches).
- 2.6 The Supplier must provide three (3) examples of inspections projects where data quality and accuracy has been verified. Also demonstrate that the technology has been utilized on a minimum of 100 miles of pipelines ranging from 48 inches to 108 inches.
- 2.7 The supplier shall provide approvals for the use of the tool in drinking water (all materials shall be NSF61 certified for safe use in potable water).

3. Supplier's Responsibilities for the evaluating inspections:

- 3.1 Prior to the inspection, the Supplier shall review all available documentation provided by Mekorot, including as-built plans, profiles, intersections, lay drawings, and grid maps of the pipeline and prepare a written Project Planning Document. The Project Planning Document shall include an aerial map showing the location of the pipeline and insertion points based on Mekorot's GIS system.
- 3.2 The Project Planning Document shall include a project specific safety and health plan, personnel, equipment, appropriate MSDS, equipment disinfection procedures, confined space entry plan, scope of the project and schedule of work activities. The Project Planning Document shall be submitted to Mekorot for review and approval at least one month prior to mobilization.
- 3.3 The Supplier shall furnish test equipment, labor and other related items that are identified in the planning document.
- 3.4 If necessary, all personnel entering the pipeline(s) shall have received appropriate confined space entry training, OSHA certifications, and shall always use air quality monitors.

4. Mekorot's responsibilities for electromagnetic inspections:

- 4.1 Provide **current** information about the pipeline to Supplier during project initiation, including, but not limited to:
- ✓ GIS shapefile representing relevant portions and attributes of the pipeline,
 - ✓ Plan and profile drawings,
 - ✓ Lay sheets and shop drawings,
 - ✓ Manufacturing details and specifications.
 - ✓ Details of access structures, air valves, blow-offs, and main line valves
- 4.2 Provide support personnel during the inspection for locating the access entry points, top side support, opening and closing manhole covers, flanges and valves, ladders, and other entry and exit support as necessary.
- 4.3 Provide and maintain safe and reasonable access to all access point throughout the inspection and obtain public works and/or police permits, as required.

5. Project Completion Deliverables for the Evaluating Inspections:

- 5.1 Supplier shall submit a draft Project Completion Report for Mekorot review within ten (10) weeks after a PCCP evaluating inspection. The report will include all reportable distress/failure in the line. After receiving comments from Mekorot, the Supplier will complete final report within four (4) weeks. The Supplier shall provide an electronic version of the final Project Completion Report.
- 5.2 The report shall contain quantitative results that clearly identify sections of pipe that have broken wires wraps. The report shall provide the quantity of broken wires on each pipe section and their accurate location with respect to the pipe's joints. The report will include the following:
- ✓ An inspection pipe list that includes identified features, a reference to available pipe drawings, and the inspection results.
 - ✓ An engineering analysis, which will provide remaining useful life modeling to establish recommended operation, maintenance actions if needed, reinspection intervals or capital replacement.
 - ✓ The Supplier will present abilities to furnish a GIS database with which the inspection data and results are integrated, with respect to the existing pipeline alignment.