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Tender

## **Water Treatment Works Digital Twin Proof of Concept - RFP**

THAMES WATER UTILITIES LIMITED

F05: Contract notice – utilities

Notice identifier: 2023/S 000-032677

Procurement identifier (OCID): ocds-h6vhtk-0415d7

Published 3 November 2023, 5:03pm

The closing date and time has been changed to:

**2 February 2024, 12:00pm**

See the [change notice](#).

### **Section I: Contracting entity**

#### **I.1) Name and addresses**

THAMES WATER UTILITIES LIMITED

Head Office, Clearwater Court, Vastern Road

Reading

RG1 8DB

#### **Contact**

Thames Water

#### **Email**

[procurement.supportcentre@thameswater.co.uk](mailto:procurement.supportcentre@thameswater.co.uk)

**Country**

United Kingdom

**Region code**

UKJ11 - Berkshire

**Companies House**

02366661

**Internet address(es)**

Main address

<http://www.thameswater.co.uk>

Buyer's address

<http://www.thameswater.co.uk/procurement>

**I.3) Communication**

Access to the procurement documents is restricted. Further information can be obtained at

<http://www.thameswater.co.uk/procurement>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<http://www.thameswater.co.uk/procurement>

**I.6) Main activity**

Water

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## **Section II: Object**

### **II.1) Scope of the procurement**

#### **II.1.1) Title**

Water Treatment Works Digital Twin Proof of Concept - RFP

Reference number

FA2098

#### **II.1.2) Main CPV code**

- 72000000 - IT services: consulting, software development, Internet and support

#### **II.1.3) Type of contract**

Services

#### **II.1.4) Short description**

Thames Water (TW) are seeking a qualified vendor to provide a Water Treatment Work Digital Twin (WTW DT) solution that will enhance our organization's operational efficiency, streamline processes, and improve overall productivity. The selected vendor will be responsible for delivering a robust platform tailored to our specific needs. This RFP outlines the requirements and expectations for the proposed solution and a framework agreement to provide the solution, for multiple water treatment works. In this context, digital twins will act as virtual representations of key water treatment plants across Thames Water.

#### **II.1.6) Information about lots**

This contract is divided into lots: No

### **II.2) Description**

#### **II.2.3) Place of performance**

NUTS codes

- UKI - London
- UKJ - South East (England)

Main site or place of performance

Whole of Thames Water Region.

#### **II.2.4) Description of the procurement**

The vendor shall provide the following services:

Needs Assessment: Conduct a thorough analysis of our organisation's processes to identify areas where the solution can bring improvements and efficiencies.

Deploy a Digital Twin solution that addresses our specific requirements.

Software Development: Indicate and advise where vendor specific solution will require specific design, development, test, and deployment of code to meet TW requirements.

Integration: Ensure seamless integration with existing systems and applications.

User Demos: Provide facility and resource to allow staff to view and use proposed solution prior to decision to purchase.

User Training: Provide comprehensive training sessions for our staff to ensure proper utilisation of the software's features.

Data Migration: Migrate existing data from our current systems to the new software solution without data loss.

Ongoing Support: Offer technical support and maintenance services post-implementation, including regular updates and bug fixes.

#### **II.2.5) Award criteria**

Price is not the only award criterion and all criteria are stated only in the procurement documents

#### **II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months

96

This contract is subject to renewal

Yes

Description of renewals

TWUL envisages that the contract will be awarded for an initial term of 3 years with options to extend up to a maximum duration of 3 years.

**II.2.9) Information about the limits on the number of candidates to be invited**

Envisaged number of candidates: 10

**II.2.10) Information about variants**

Variants will be accepted: Yes

**II.2.11) Information about options**

Options: Yes

Description of options

TWUL envisages that the contract will be awarded for an initial term of 3 years with options to extend up to a maximum duration of 3 years.

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## **Section III. Legal, economic, financial and technical information**

### **III.1) Conditions for participation**

#### **III.1.1) Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers**

List and brief description of conditions

As detailed in the PQQ.

#### **III.1.2) Economic and financial standing**

Selection criteria as stated in the procurement documents

#### **III.1.3) Technical and professional ability**

Selection criteria as stated in the procurement documents

#### **III.1.4) Objective rules and criteria for participation**

List and brief description of rules and criteria

As detailed in the PQQ.

#### **III.1.6) Deposits and guarantees required**

Bonds and/or parent company guarantees of performance and financial standing may be required.

#### **III.1.7) Main financing conditions and payment arrangements and/or reference to the relevant provisions governing them**

As detailed in the ITN.

#### **III.1.8) Legal form to be taken by the group of economic operators to whom the contract is to be awarded**

Consortia may be required to form a legal entity prior to any award.

### **III.2) Conditions related to the contract**

#### **III.2.2) Contract performance conditions**

As detailed in the ITN.

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## **Section IV. Procedure**

### **IV.1) Description**

#### **IV.1.1) Type of procedure**

Negotiated procedure with prior call for competition

#### **IV.1.3) Information about a framework agreement or a dynamic purchasing system**

The procurement involves the establishment of a framework agreement

Framework agreement with a single operator

#### **IV.1.4) Information about reduction of the number of solutions or tenders during negotiation or dialogue**

Recourse to staged procedure to gradually reduce the number of solutions to be discussed or tenders to be negotiated

#### **IV.1.8) Information about the Government Procurement Agreement (GPA)**

The procurement is covered by the Government Procurement Agreement: Yes

### **IV.2) Administrative information**

#### **IV.2.2) Time limit for receipt of tenders or requests to participate**

Originally published as:

Date

8 January 2024

Local time

12:00pm

Changed to:

Date

2 February 2024

Local time

12:00pm

See the [change notice](#).

#### **IV.2.4) Languages in which tenders or requests to participate may be submitted**

English

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## **Section VI. Complementary information**

### **VI.1) Information about recurrence**

This is a recurrent procurement: Yes

### **VI.2) Information about electronic workflows**

Electronic ordering will be used

Electronic invoicing will be accepted

Electronic payment will be used

### **VI.3) Additional information**

All suppliers who wish to respond to this notice must request a pre-qualification questionnaire (PQQ) by using the link in Section I.3 of this Notice, i.e.

[www.thameswater.co.uk/procurement](http://www.thameswater.co.uk/procurement).

### **VI.4) Procedures for review**

#### **VI.4.1) Review body**

Thames Water Utilities Limited

Head Office, Clearwater Court, Vastern Road

Reading

RG1 8DB

Email



[procurement.support CENTRE@thameswater.co.uk](mailto:procurement.support CENTRE@thameswater.co.uk)

Country

United Kingdom

Internet address

[www.thameswater.co.uk](http://www.thameswater.co.uk)

### **VI.4.3) Review procedure**

Precise information on deadline(s) for review procedures

Thames Water Utilities Limited will operate a standstill period at the point information on the award of the contract is communicated to tenderers. That notification will provide full information on the award decision. The standstill period, which will be for a minimum of 10 calendar days, provides time for unsuccessful tenderers to challenge the award decision before the contract is entered into.

The Utilities Contracts Regulations 2016 provide for aggrieved parties who have been harmed or are at risk of harm by a breach of the rules to take action in the High Court (England, Wales and Northern Ireland).