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Tender

Digital Twin of Water Treatment Works

THAMES WATER UTILITIES LIMITED

F05: Contract notice – utilities

Notice identifier: 2024/S 000-014079

Procurement identifier (OCID): ocds-h6vhtk-045695

Published 1 May 2024, 2:48pm

Section I: Contracting entity

I.1) Name and addresses

THAMES WATER UTILITIES LIMITED

Reading

RG18DB

Contact

Thames Water

Email

procurement.support.centre@thameswater.co.uk

Country

United Kingdom

Region code

UKJ11 - Berkshire

Companies House

02366661

Internet address(es)

Main address

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

I.3) Communication

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

<https://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

<https://thameswater.smartsourceportal.com/>

I.6) Main activity

Water

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Digital Twin of Water Treatment Works

Reference number

FA2150

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 bidder to provide a Water Treatment Works Digital Twin (WTW DT) solution as a proof-of-concept. It is expected that the solution will enhance our organisation's operational efficiency, streamline processes, and improve overall productivity allowing it to be implement at key facilities across the estate.

The DT will identify gaps in efficiencies and recommend process interventions to reduce these gaps, with an aim of delivering an ROI for the proof-of-concept of

II.1.5) Estimated total value

Value excluding VAT: £2,000,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 48100000 - Industry specific software package
- 72200000 - Software programming and consultancy services

II.2.3) Place of performance

NUTS codes

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

Main site or place of performance

Whole of the Thames Water Region

II.2.4) Description of the procurement

Development of a digital twin, as a proof-of-concept project, at Chingford WTW:

- Optimise efficiency across the whole site - source to pumps. Optimisation will be in the form of recommendations for operators to conduct on a day-to-day basis, driving down costs in areas such as power and consumables
- The digital twin solution will mimic the physical asset to allow what-if analysis, running hypothetical scenarios to understand how the physical treatment work will operate under certain conditions
- The tool should integrate advances in innovation and machine learning to help Thames in becoming more proactive: identifying changing trends that wouldn't be possible manually and outputting a preventative response to mitigate emerging events
- The digital twin should be adaptable so that it can be tailored to help solve site-specific challenges, example at Chingford algae and pH control
- The product should be able to assist in the quantification of benefits it delivers enabling ROI calculations to be drawn which will inform scalability

II.2.5) Award criteria

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

II.2.6) Estimated value

Value excluding VAT: £2,000,000

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

Duration in months

60

This contract is subject to renewal

Yes

Description of renewals

Any Agreement awarded for an initial duration of three years (within which break clauses may apply after the proof of concept phase and at any roll out phase) and then with the option to extend annually to a maximum of overall duration of five years.

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

Envisaged number of candidates: 5

II.2.10) Information about variants

Variants will be accepted: Yes

II.2.11) Information about options

Options: Yes

Description of options

Any Agreement awarded for an initial duration of three years (within which break clauses may apply after the proof of concept phase and at any roll out phase) and then with the option to extend annually to a maximum of overall duration of five years.

Section III. Legal, economic, financial and technical information

III.1) Conditions for participation

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 section VI.3 & 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

Specified in Invitation to Negotiate Document

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 award

III.2) Conditions related to the contract

III.2.3) Information about staff responsible for the performance of the contract

Obligation to indicate the names and professional qualifications of the staff assigned to performing the contract

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Negotiated procedure with prior call for competition

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

The procurement is covered by the Government Procurement Agreement: No

IV.2) Administrative information

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

Date

17 May 2024

Local time

12:00pm

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

English

IV.2.6) Minimum time frame during which the tenderer must maintain the tender

Duration in months: 4 (from the date stated for receipt of tender)

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 contract notice must request a pre-qualification questionnaire (PQQ) by using the web link in Section I.3 (www.thameswater.co.uk/procurement).

From your response to the link in Section I.3 or above, Thames Water's Procurement Support Centre will send you an email providing login details for our eSourcing system (i.e. IASTA

Smartsource). To complete the PQQ you will need to login to IASTA Smartsource.

If the project requires it, you will receive an additional and separate survey to complete for Data Protection.

Note - The client may be Thames Water Utilities Limited or another company within the Kemble Water group structure

VI.4) Procedures for review

VI.4.1) Review body

Thames Water Utilities Limited

Reading

Country

United Kingdom

VI.4.3) Review procedure

Precise information on deadline(s) for review procedures

Thames Water Utilities Limited will incorporate 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 (SI 2016 No 274) 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).

