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Tender

GIS Core Platform & Data Model (incl. GIS Tooling)

YORKSHIRE WATER SERVICES LIMITED

F05: Contract notice – utilities

Notice identifier: 2022/S 000-019791

Procurement identifier (OCID): ocids-h6vhtk-0353f7

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Section I: Contracting entity

I.1) Name and addresses

YORKSHIRE WATER SERVICES LIMITED

Western House, Western Way, Buttershaw

BRADFORD

BD62SZ

Contact

Dharmesh Depala

Email

Dharmesh.depala@yorkshirewater.co.uk

Country

United Kingdom

NUTS code

UKE41 - Bradford

Internet address(es)

Main address

<http://www.yorkshirewater.com>

I.3) Communication

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

<http://www.yorkshirewater.com>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<http://www.yorkshirewater.com>

I.6) Main activity

Water

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

GIS Core Platform & Data Model (incl. GIS Tooling)

Reference number

CM2467

II.1.2) Main CPV code

- 48000000 - Software package and information systems

II.1.3) Type of contract

Supplies

II.1.4) Short description

YWS has embarked upon a Transformation Programme to deliver new and improved business capabilities which will require enterprise-wide changes to process, people, systems and data. Underpinning this is a Technology and Data strategy that will deliver a modern tech landscape, encompassing the full range of IT business applications including core platform technology, ERP, Customer Experience and provision of a Strategic Data Platform.

Spatial Information is core to the business operations of Yorkshire Water and there is an ever-increasing requirement to harness the intelligence of this to develop new applications to support core asset management, network maintenance, customer services, hydraulic modelling, interaction with external partners and fulfilment of regulatory obligations, integrating Spatial Information with other core data assets across Yorkshire Water.

The current GIS system at YWS has been in use for a long time and has evolved over many years supporting spatial information service requirements across the business. In addition, there are several targeted business initiatives for specific departmental requirements using a range of other GIS product platforms.

A GIS Strategy review has been undertaken to take stock of what YWS have, engage across the business to consolidate business requirements, review current technologies available, learn from other UK Water Industry initiatives and identify a Roadmap to the achievement of a new Target Operating Model for the delivery of integrated, high-quality capabilities and

services to support the current and future Spatial Information Services needs of Yorkshire Water.

The scope of this procurement seeks to select a new GIS core platform and data model and assess GIS core platform service provider's capability in the provision of GIS tooling.

This notice is seeking expression of interest for providing GIS Core Platform service to YWS. Please note that all bidders' expression of interest must be in the form of a completed

Selection Questionnaire through SAP Ariba.

In order to receive onboarding onto SAP Ariba, please email at

dharmesh.depala@yorkshirewater.co.uk

II.1.5) Estimated total value

Value excluding VAT: £8,000,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 38221000 - Geographic information systems (GIS or equivalent)
- 48000000 - Software package and information systems

II.2.3) Place of performance

NUTS codes

- UKE - Yorkshire and the Humber

Main site or place of performance

Yorkshire Region

II.2.4) Description of the procurement

To express an interest in participating in the tender, please contact Dharmesh Depala (Dharmesh.depala@yorkshirewater.co.uk) through email by 17:00 (GMT) on 19th August 2022.

Once a bidder expresses an interest, the bidder will be invited to Ariba event, where Selection document pack will be shared with them. This will include the Selection document that must be completed by all bidders and submitted in Ariba by 17:00 (GMT) on 19th August 2022.

Once invited to the Ariba event, all communication will take place via Ariba. Any clarification regarding the tender or selection questionnaire should be raised via Ariba by 17:00 (GMT) on 12th August 2022.

YWS will periodically consolidate clarifications that would be relevant to everyone and share the response to these with all bidders anonymously. Following an assessment of responses received for Selection, successful suppliers will be invited to the ITT stage.

Service Description:

The GIS programme aims to ensure the provision of capabilities and services to support current and future spatial data, information, processing, analysis and presentation requirements of YWS business activities including but not limited to:

Management of clean and waste network records (including our regulatory obligations to share this data with key stakeholders).

Management of other spatial data sets - customer, property, land ownership, boundaries, CCTV data and our background OS map sets.

Data visualisation to support operations management, field work management, incidents, promote and plan network interventions.

Provision of key data sets to mobile field work devices and management of updates to the network, including red-lining and black-lining. This should include on and offline working capabilities using a range of Microsoft and iOS devices.

Spatial data analytic platforms - network tracing, integration with industry leading hydraulic and waste-water modelling

Integration and data sharing with third parties, e.g. in support of Land Strategy, Environment Agency models, other utilities, infrastructure planning (e.g. HS2)

Management of meter and property data for billing, leakage and smart grid enablement

Integration into Customer case management applications and processes to support fault diagnosis and to proactively manage interruptions to clean and waste services.

Integration into EAM applications, including SAP S/4 for asset & field work management planning and execution.

YWS are seeking a GIS core platform and data model that can adhere to the YWS IT Strategy core principles of:

Modern - hybrid cloud/on premise landscape, scalable etc. Modern digital architecture easier to integrate - microservices etc. Underlying data model in line with industry standards and directions, e.g. digital built Britain (<https://www.cdbb.cam.ac.uk/>)

Simple - deploy role-based apps more aligned to the diverse user base. E.g. - just need to see where something is on a map, vs advanced spatial data manipulation and modelling. Intuitive apps for raising work on network assets.

Consolidate - address the complex fragmented legacy estate and eliminate technologies not aligned to strategic technical direction. Rationalise any user developed/non corporate solutions. Instances of other GIS tools

Innovate - more easily able to share spatial data - provide to modelling, predictive tools. Use of AI/ML e.g. to infer where private networks are located. Make it easier and cheaper to test and learn.

Automate - eliminate manual administrative tasks, e.g. automate some quality assurance checks of network redlines

Insight into Action - predictive/preventative and risk-based network models - help avoid service issues, flooding, Supply Interruptions, etc.

Other principles may be communicated to bidders throughout this tender process and during the contract

YWS may also procure professional services (such as set-up/configuration services) and a range of other services from the successful provider awarded this contract related to the provider's software which may be needed.

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: £8,000,000

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

To be confirmed

II.2.10) Information about variants

Variants will be accepted: Yes

II.2.11) Information about options

Options: Yes

Description of options

Options: Yes

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

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

19 August 2022

Local time

5:00pm

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

English

Section VI. Complementary information

VI.1) Information about recurrence

This is a recurrent procurement: No

VI.4) Procedures for review

VI.4.1) Review body

Yorkshire Water Services

Bradford

Country

United Kingdom