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Planning

Telemetry System Upgrade & Situational Awareness Capability for Yorkshire Water Services Limited

YORKSHIRE WATER SERVICES LIMITED

F04: Periodic indicative notice – utilities

Periodic indicative notice only

Notice identifier: 2024/S 000-026767

Procurement identifier (OCID): ocids-h6vhtk-0492d3

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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

David Archer

Email

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Telephone

+44 7816265748

Country

United Kingdom

Region code

UKE41 - Bradford

Companies House

02366682

Internet address(es)

Main address

<https://www.yorkshirewater.com/>

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.6) Main activity

Water

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Telemetry System Upgrade & Situational Awareness Capability for Yorkshire Water Services Limited

II.1.2) Main CPV code

- 71700000 - Monitoring and control services

II.1.3) Type of contract

Services

II.1.4) Short description

Objective:

This notice serves to inform the market of an upcoming procurement opportunity aimed at transforming and enhancing Yorkshire Water Services Limited's Operational Technology (OT) platforms and processes. The key focus of this procurement is to replace the existing Legacy Telemetry System and develop a unified Situational Awareness ecosystem.

The current telemetry system gathers data from thousands of remote assets in near real-time, converting this data into actionable business intelligence. This functionality ensures the safe and efficient operation of various assets, including monitoring reservoir and borehole levels, water quality readings, and pump or valve statuses across both clean and wastewater systems. The processed data is displayed in our operational control room and accessed remotely by key operational users, ensuring that our assets and processes operate efficiently, minimising risks to customers and the environment.

II.1.5) Estimated total value

Value excluding VAT: £45,000,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 32400000 - Networks
- 42961200 - Scada or equivalent system
- 71800000 - Consulting services for water-supply and waste consultancy
- 72000000 - IT services: consulting, software development, Internet and support

II.2.3) Place of performance

NUTS codes

- UKE - Yorkshire and the Humber

II.2.4) Description of the procurement

Scope:

As the existing telemetry system approaches the end of its life within the next five years, this procurement seeks to engage one or more partners to supply, integrate, and commission a new central telemetry system and data historian. The new system must be compatible with the existing Remote Terminal Units (RTUs) at the edge and provide real-time data acquisition, remote monitoring, management, and control of utility-class assets. This system will form the foundation for an integrated ecosystem that allows real-time asset data integration, extending beyond internal sources to third-party systems, and offering a pathway to a fully integrated situational awareness capability across the organisation.

To ensure the successful implementation of this end-to-end program, it is recognised that business change will be necessary to align with the new technological advancements. This will include adopting new governance processes, providing comprehensive training and upskilling of personnel, and adjusting the target operating model to effectively manage the enhanced capabilities.

Given the extensive use of these systems by over two thousand employees and support partners within the organisation, a multi-vendor or joint venture approach is anticipated. However, the software supplier will be required to take the lead role, nominate, and appoint suitable partners, and assume overall responsibility for delivery.

Key Requirements:

- Replacement of legacy MC2000 telemetry system and associated capabilities.
- Compatibility with existing edge RTU infrastructure & communications using Modena protocol.
- High availability, redundancy, and cyber-secure with 24x7x365 support services.
- Scalable architecture ready for expansion, including cloud-readiness or Infrastructure as a Service (IaaS).
- Customisable GUI design package with asset data libraries and models.
- Migration / configuration of existing 10,000 Process Schematics (mimics) with approximately 270,000 data points and associated metadata.

- Integrated alarm service with customisable business process logic for event management.
- Historian and reporting capabilities with advanced analytical logic models.
- System migration and hyper-care service until the new capability is fully embedded into the organisation functions.
- Use of open standards, protocols e.g. WITS, and APIs to enable integration with other business systems e.g. SAP & ESRI.
- Compliance with relevant industry standards and regulations (e.g., EMEUR191, ISA 18.2, IEC 62443, ISO 27001).
- Extensibility for AI and future analytical asset modelling.

II.2.14) Additional information

Interested parties are encouraged to express their interest on this notice and provide feedback on the proposed procurement. This feedback will help refine the requirements and procurement strategy.

A market engagement event is proposed for w/c 23rd September to discuss the project in more detail.

Suppliers should register their interest by contacting David Archer at David.Archer@YorshireWater.co.uk

II.3) Estimated date of publication of contract notice

28 October 2024

Section IV. Procedure

IV.1) Description

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

English

Section VI. Complementary information

VI.3) Additional information

Disclaimer:

This PIN is not a call for competition. Its purpose is to inform the market of the forthcoming procurement and to gather feedback from potential suppliers. The contracting authority reserves the right to amend the information contained in this notice.