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Planning

National Grid Electricity Transmission - Future Enterprise Asset Management BT and SI

NATIONAL GRID UK LIMITED

F04: Periodic indicative notice – utilities

Periodic indicative notice only

Notice identifier: 2023/S 000-009705

Procurement identifier (OCID): ocds-h6vhtk-03bc1a

Published 3 April 2023, 4:59pm

Section I: Contracting entity

I.1) Name and addresses

NATIONAL GRID UK LIMITED

1-3 Strand

London

WC2N 5EH

Contact

Andrii Khomenko

Email

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Country

United Kingdom

Region code

UKI - London

NATIONAL GRID UK LIMITED

4508773

Internet address(es)

Main address

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

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.6) Main activity

Other activity

Electricity and Gas

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

National Grid Electricity Transmission - Future Enterprise Asset Management BT and SI

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

Beginning in FY24 National Grid Electricity Transmission (NGET) will begin replacing its incumbent Enterprise Asset Management (EAM) system ABB Ellipse with IBM Maximo.

National Grid Electricity Transmission (ET) own and maintain the high voltage electricity network in England and Wales comprising 4,500 miles of overhead line, 900 miles of underground cable and more than 300 substations.

Our cables and substations are at the centre of the energy system. Every time a phone is plugged in, or switch is turned on, we've played a part, connecting homes and business to the electricity they need. It's a crucial role and pivotal in turning the UK's net zero ambitions into reality.

IBM Maximo is a leading work and asset management solution providing the capabilities to support NGET's strategic ambitions. maintaining safe, reliable, and affordable service to our customer and was selected through a competitive procurement activity.

To fully optimises the capability of a modern EAM and the program delivery is successful NGET are seeking partners for the below lots:

Lot 1 - Business Transformation (BT)

A partner to join NGET from FY23 Q2 to ensure the change and business transformation to a colleague- base of ~2000 is successful, sufficiently transformative and enables NGET to meet our strategic ambitions.

Lot 2 - Solution Integration (SI)

Existing EAM Landscape is highly integrated to core applications like SAP, Geospatial Information System, Data Lake, Time sheeting Solution, Network Outage management systems, Digital Experience platforms/ portals, Work Management systems, Document Management systems, Third Party Enquiry systems, Asset Investment and Portfolio Planning systems. Integration services are provided via a middleware service (OFM (legacy) and MuleSoft

Currently the EAM instance is shared with ET and GT. Assumption is that GT would be moving out from the current EAM instance by Jan 2024; or

Lot 3 - Business Transformation & Solution Integration (BT & SI)

A partner to deliver a combination of the above lots.

II.1.5) Estimated total value

Value excluding VAT: £8,000,000

II.1.6) Information about lots

This contract is divided into lots: Yes

The contracting authority reserves the right to award contracts combining the following lots or groups of lots:

The full and final scope has yet to be fully approved; however, the lots will be split into the following components:

- 1) Business Transformation (BT)
- 2) Solution Integration (SI)
- 3) Business Transformation & Solution Integration (partner to deliver a combination of the above lots).

II.2) Description

II.2.1) Title

Business Transformation (BT)

Lot No

1

II.2.2) Additional CPV code(s)

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

II.2.3) Place of performance

NUTS codes

- UKG13 - Warwickshire

II.2.4) Description of the procurement

Comprising:

- Facilitate NGET to define our vision and future state - defining success
- Value case production for new or transformational capability
- Stakeholder Map and Management Plan
- Persona Development and DILO content
- Change Impact Assessment
- Change Management Strategy & Action Plan, including
- Process and RACI review and re-design
- Role profile review and revision
- Change Agent Network
- Communications Strategy and Plan
- Communications and Marketing content including but not limited to microsites, online content, newsletters, videos, Yammer posts, posters, materials which can be cascaded in Grid:Talk
- Development of business scenarios for User Acceptance Testing

- Training Needs Analysis
- Training Strategy
- Training Plan
- Reusable Training materials
- Business Change Readiness and Status Tracking
- Early Life Support Plan
- Future Capability Roadmaps

II.2) Description

II.2.1) Title

Solution Integration (SI)

Lot No

2

II.2.2) Additional CPV code(s)

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

II.2.3) Place of performance

NUTS codes

- UKG13 - Warwickshire

II.2.4) Description of the procurement

Expectation from SI partner would be:

- Analyse and optimise the existing interfaces with the new EAM Solution
- Align EAM Strategy with ET Data Strategy and Integration Strategy
- Comply with security regulations for data classification and categorisation

- Ability to extend the EAM capability to other asset types like Cyber
- Support building the Common Information Model along with the ET data Team
- Support Creating updated Asset Hierarchy based on the new EAM platform and the business Transformation inputs
- Support Application Rationalisation based on the capability of new EAM solution

II.2) Description

II.2.1) Title

Business Transformation & Solution Integration (BT & SI)

Lot No

3

II.2.2) Additional CPV code(s)

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

II.2.3) Place of performance

NUTS codes

- UKG13 - Warwickshire

II.2.4) Description of the procurement

A partner to deliver a combination of the above lots

II.3) Estimated date of publication of contract notice

4 April 2023

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.2.2) Time limit for receipt of expressions of interest

Date

30 April 2023

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

English

Section VI. Complementary information

VI.3) Additional information

National Grid Electricity Transmission (ET) own and maintain the high voltage electricity network in England and Wales comprising 4,500 miles of overhead line, 900 miles of underground cable and more than 300 substations.

Our cables and substations are at the centre of the energy system. Every time a phone is plugged in or switch is turned on, we've played a part, connecting homes and business to the electricity they need. It's a crucial role and pivotal in turning the UK's net zero ambitions into reality.

We're leading by example by offering practical solutions, delivering the infrastructure needed to support increasing amounts of renewable energy and facilitate a nationwide rollout of electric vehicle charging points - all at the same time as delivering work sustainably and cutting our own emissions too. We deliver for customers efficiently, ensuring safe, reliable and affordable electricity around the clock no matter what the weather.

We're striving to meet those commitments by driving operational excellence whilst contributing positively to the communities in which we operate. To underpin our operational excellence journey, we need to transform our Enterprise Asset Management (EAM) system to accommodate changes including the adoption of predictive maintenance activities, increased digitalisation of business processes and the optimisation of work management.

The support for our existing EAM system is due for renewal in 2025, at which point it will also be nearing its end of life. This confluence of events presented an opportunity to reassess the market to address our priorities.

The new solution and architecture must align to our ambition whilst being a good functional fit with broader National Grid systems for HR, Procurement and Finance.

The current Enterprise Asset Management (EAM) application manages the:

- a) Registry of the transmission assets.
- b) Maintenance and other work associated with those assets.
- c) Inventory relationship for MRO (Maintenance, Repair and Operations).
- d) Scheduling of MRO activities.
- e) Faults and defect management.

- f) Asset condition and performance data.
- g) Cost and time information across capital and maintenance work.
- h) Wayleave information.
- i) Field worker's timesheets and feeds into the SAP payroll system.

At present, this system supports up to 600 concurrent users across the ET business including both the 2,000 fieldworkers and their office-based support teams. In future, 3rd party contractors will also need to be added to this community.

In the coming years our system will experience added complexity arising from the investment required to achieve Net Zero. To ensure we are prepared a range of options for the provision of asset registry, work and asset management capabilities have been identified, and detailed analysis, including Cost Benefit Analysis (CBA) undertaken throughout 2022.

This has determined that a like-for-like replacement of our existing EAM system will not meet the future needs of our business. This will require new technologies such as:

- Artificial Intelligence (AI) and Machine Learning (ML).
- Digitally enabled workers.
- Digital twins.
- Advanced data analytics.
- Digital turnaround solutions.
- Real-time visualisation and alerts.
- Predictive analysis.
- The integration and automation of systems and processes - Robotic Process Automation (RPA).

The preferred solution is to replace the current EAM system with IBM Maximo. Maximo is a market leading work and asset management solution that meets the requirements outlined above and is seen to have the capabilities to support ET's strategic ambitions and maintaining safe, reliable and affordable service to our customer.

Achilles Registration:

Further to the enclosed PIN, please indicate your expression of interest and confirmation of your current registration status of ALL UVDB codes detailed below by emailing to Andrii.Khomenko@nationalgrid.com:

2.1.2-Software Development Services

2.2.3-IT Consultancy

You must be registered against ALL UVDB Codes on Achilles at the point of contract award.

Please clearly state for each lot your interest in and current status:

Lot 1 - Business Transformation (BT)

Interested YES/NO

Lot 2 - Solution Integration (SI)

Interested YES/NO

Lot 3 - Joint Business Transformation & Solution Integration

Interested YES/NO

If YES, please confirm your current status

- Fully registered on Achilles against UVDB Codes? Yes/No
- Partially registered
- Not registered at all

National Grid can support any issues with completion of your registration process on Achilles.