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Tender

## **Target 190plus Synthetic Environment for the Design & Test of Signalling Solutions (Phase 2 & 3)**

Network Rail Infrastructure Ltd

F05: Contract notice – utilities

Notice identifier: 2023/S 000-027549

Procurement identifier (OCID): ocds-h6vhtk-03ea19

Published 18 September 2023, 6:37pm

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

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

Network Rail Infrastructure Ltd

Waterloo General Offices

London

SE1 8SW

#### **Contact**

Naomi Nortey

#### **Email**

[DRTSProcurement@networkrail.co.uk](mailto:DRTSProcurement@networkrail.co.uk)

#### **Telephone**

+44 1908781000

#### **Country**

United Kingdom

**Region code**

UK - United Kingdom

**Internet address(es)**

Main address

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

Buyer's address

<https://networkrail.bravosolution.co.uk/web/login.html>

**I.3) Communication**

The procurement documents are available for unrestricted and full direct access, free of charge, at

<https://networkrail.bravosolution.co.uk/web/login.html>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://networkrail.bravosolution.co.uk/web/login.html>

Tenders or requests to participate must be submitted to the above-mentioned address

**I.6) Main activity**

Railway services

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**Section II: Object**

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

**II.1.1) Title**

Target 190plus Synthetic Environment for the Design & Test of Signalling Solutions  
(Phase 2 & 3)

Reference number

35768

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

- 72212517 - IT software development services

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

Services

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

Network Rail (NR) requires a digital solution to develop signalling scheme designs and facilitate the integration of that design into the operational railway providing interfaces to a target signalling system.

The Target 190plus Synthetic Environment (SE) is a significant Research & Development project that will define, develop and deliver capabilities that will enable efficient design, integration, testing, and validation of Future Control Command Signalling (FCCS) schemes and products.

### **II.1.5) Estimated total value**

Value excluding VAT: £10,000,000

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

This contract is divided into lots: No

## **II.2) Description**

### **II.2.2) Additional CPV code(s)**

- 72212140 - Railway traffic control software development services

- 72212321 - Computer-aided design (CAD) software development services
- 72212517 - IT software development services
- 72262000 - Software development services
- 72317000 - Data storage services

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

NUTS codes

- UK - United Kingdom

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

The railway faces a major industry challenge, where the cost and volume of future signalling renewals is unsustainable. Over the next 15 years there is a need to deliver an increase of over 50% of the signalling renewals work at half the current price to achieve a sustainable, affordable railway that can meet customer needs and expectations.

Britain must have a reliable, high performing railway that's fit for the future, delivers financial value and provides operational performance in a safe and sustainable way. To reduce costs and increase access on the railway we are creating new ways of working and introducing new technology. The use of digital technology will improve the services to freight and passenger customers, causing less delays due to signalling failure and track closures for access to complete repairs and providing the opportunity for more trains to run where needed.

We're working across Industry to build a new approach for balancing research and development and engineering solutions with the needs of end users and customers.

Target 190plus is a Network Rail Research & Development (R&D) programme that looks at the sustainability of the signalling systems on the network and the challenges these bring to the rail industry. It has the aim to reduce the current whole life cost of signalling from a unit rate of £419,000 to the required £190,000 by 2029 to enable the ETCS Long Term Deployment Plan to be achieved.

Synthetic Environment is 1 of 29 projects, the programme will use to reduce costs, improve services for passengers and increase safety by automating signalling design processes, standardising system architectures, implementing faster renewals planning and introducing offsite testing and validation processes.

Synthetic Environment Phase 1: concerned the development of detailed requirements for the SE, completed.

This procurement event will seek a suitable supplier to deliver Phase 2 and 3 of the Synthetic Environment Project:

Phase 2: Development of a Minimum Viable Product (MVP) for SE and shadow mode running

Phase 3: Full SE capable of delivering all the foreseen technology and scope options for F-CCS projects

Detailed requirements within the published tender documents.

#### **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

42

This contract is subject to renewal

No

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

Maximum number: 4

#### **II.2.10) Information about variants**

Variants will be accepted: Yes

#### **II.2.11) Information about options**

Options: No

#### **II.2.13) Information about European Union Funds**

The procurement is related to a project and/or programme financed by European Union funds: No

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## **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

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## **Section IV. Procedure**

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

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

Negotiated procedure with prior call for competition

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

The procurement is covered by the Government Procurement Agreement: Yes

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

#### **IV.2.1) Previous publication concerning this procedure**

Notice number: [2023/S 000-021503](#)

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

Date

16 October 2023

Local time

12:00pm

#### **IV.2.3) Estimated date of dispatch of invitations to tender or to participate to selected candidates**

4 December 2023

#### **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: 6 (from the date stated for receipt of tender)

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## **Section VI. Complementary information**

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

This is a recurrent procurement: No

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

Previous publication concerning this procedure: 2023/S 000-021

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

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

The High Court of England and Wales

The Strand

London

WC2A 2LL

Country

United Kingdom

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

Precise information on deadline(s) for review procedures

In accordance with the Utilities Contracts Regulations 2016, Network Rail will incorporate a minimum 10 calendar day standstill period prior to concluding the award of any framework contracts pursuant to this notice.