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Tender

Annual Visual AI Survey on the London Principal Road Network

Transport for London

F02: Contract notice

Notice identifier: 2021/S 000-004684

Procurement identifier (OCID): ocds-h6vhtk-0299bd

Published 9 March 2021, 10:38am

Section I: Contracting authority

I.1) Name and addresses

Transport for London

5 Endeavour Square

London

SE1 8NJ

Contact

Mr Will Dyer

Email

v_willdyer@tfl.gov.uk

Country

United Kingdom

NUTS code

UKI - LONDON

Internet address(es)

Main address

<https://tfl.gov.uk>

Buyer's address

<https://tfl.gov.uk>

I.3) Communication

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

<https://procontract.due-north.com/>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://procontract.due-north.com/>

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

General public services

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Annual Visual AI Survey on the London Principal Road Network

Reference number

DN531182

II.1.2) Main CPV code

- 71353000 - Surface surveying services

II.1.3) Type of contract

Services

II.1.4) Short description

This contract is for a service provider to provide an annual Visual Artificial Intelligence-Based Carriageway Condition Survey (Visual AI Survey) across the London Borough Principal Road Network (BPRN) and the provision and storage of the survey data and other deliverables to identify and support asset investment decisions

The service requirement also includes optional services of the driven collection of the condition data by the Service Provider as well as a Visual AI Survey of the Transport for London Road Network (TLRN) and the Borough Non-Principal Road Networks (i.e. B, C and U Roads)

The anticipated duration of the contract is 24 months with an option to extend by up to 12 months. Procurement documentation can be accessed from the following electronic address: <https://procontract.due-north.com/Register>. TfL reserves the right to cancel or terminate this procurement at TfL's discretion and without liability to any applicant.

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 71631480 - Road-inspection services

II.2.3) Place of performance

NUTS codes

- UKI - LONDON

II.2.4) Description of the procurement

A service provider is sought to provide an annual Artificial Intelligence-Based Visual

Carriageway Condition survey (Visual AI survey) to identify and support asset investment decisions on London's Borough Principal Road Network (BPRN). The condition data collected in the Visual AI survey will be used to move towards a robust approach for funding allocation between the London Highways Authorities to ensure value-driven scheme selection, vital to achieve the best value for money for TfL, the London Boroughs and LoHEG (London Highways Engineers Group Framework).

The service requirement may also include the driven collection of the condition data by the Service Provider as well as a Visual AI Survey of the Transport for London Road Network (TLRN) and Borough Non-Principal Road Networks (i.e. B, C and U Roads) with the provision and online storage of the survey data, as optional services.

The total length of the BPRN required to be surveyed in Lane 1 is approximately 2550 lane km (total for both directions). As well as surveying roads in both directions, some multi-lane carriageways will be surveyed more than once in the same direction. The contract will therefore provide the option for Visual AI surveys to be undertaken in the additional lanes of the BPRN multi-lane network sections, as well as the TLRN and non-principal Borough-maintained roads.

The system used to survey and assess road surface condition shall be an artificial intelligence-based system capable of optical recognition of defects and collection of condition data (meaning the presence, type and severity of defects) using a smartphone camera from a moving vehicle traveling at normal highway speeds. Other mechanical means of survey may be additional but must not replace the use of optics.

The Service Provider shall ensure the collected condition data is processed using an artificial intelligence-based, automated methodology at all stages from collection to processing.

The Service Provider shall carry out all necessary validation and processing of the Visual AI Survey data in order to provide the results according to the required formats and conditions as defined in the Specification and accurately fitting against the Authority's Network in Geographical Information System (GIS) format.

The Service Provider shall ensure the Visual AI Survey system is able to assess the defects listed for bituminous and concrete carriageways in 'The UKPMS User Manual, Volume Two, Chapter 8: Detailed Visual Inspection'. These include, but are not limited to:

- Cracking
- Chip loss, fretting and surface deterioration
- Subsidence

- Fatting

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

24

This contract is subject to renewal

Yes

Description of renewals

Option to extend by up to 12 months.

II.2.10) Information about variants

Variants will be accepted: No

II.2.11) Information about options

Options: Yes

Description of options

Option to extend by up to 12 months.

II.2.13) Information about European Union Funds

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

Section IV. Procedure

IV.1) Description

IV.1.1) Type of procedure

Open procedure

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

Date

8 April 2021

Local time

12:00pm

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

English

IV.2.7) Conditions for opening of tenders

Date

8 April 2021

Local time

12:00pm

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

High Court

Royal Courts of Justice, The Strand

London

WC2A 2LL

Country

United Kingdom