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Contract notice

Services

Legal Basis:

Directive 2014/24/EU

Section I: Contracting authority

I.1) **Name and addresses**

Transport for London
55 Broadway
London
SW1H 0BD
United Kingdom
Contact person: Shaheen Lodhi
E-mail: psfw2@tfl.gov.uk
NUTS code: UK

Internet address(es):

Main address: <https://tfl.gov.uk>
Address of the buyer profile: <https://tfl.gov.uk>

I.2) **Information about joint procurement**

I.3) **Communication**

Access to the procurement documents is restricted. Further information can be obtained at: <https://procontract.due-north.com>
Additional information can be obtained from the abovementioned address
Tenders or requests to participate must be submitted electronically via: <https://procontract.due-north.com>

I.4) **Type of the contracting authority**

Regional or local authority

I.5) **Main activity**

Other activity: Public Transport

Section II: Object

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

II.1.1) **Title:**

PSFW2 TfL 94203 - ENGINEERING CONSULTANCY FRAMEWORK
Reference number: DN418146

II.1.2) **Main CPV code**

71000000

II.1.3) **Type of contract**

Services

II.1.4) **Short description:**

The purpose of this procurement is to establish a Framework Agreement to procure Engineering Consultancy Services (the Framework Agreement) for Transport for London (TfL), The Greater London Authority (GLA), and all 32 London borough councils and the City of London. This Framework , is part of a suite of TfL Professional Services Frameworks and TfL's primary means of accessing engineering, planning and project management

support and expertise from the external supply chain. In line with its Commercial Strategy, TfL continues to work within a category management approach for replacing the current suite of frameworks. Fundamental to the success of the programme is ensuring that the intended users have access to the necessary technical and specialist skills and services to meet their requirements. The key strategic objectives of the new suite of Frameworks includes higher quality service provision, reduced costs and greater value for money.

II.1.5) **Estimated total value**

II.1.6) **Information about lots**

This contract is divided into lots: yes

Tenders may be submitted for all lots

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

Please refer to the Procurement Documents to see the Engineering Consultancy Lots. The duration of the framework agreement will be 3 years. TfL reserve the right to extend the Framework by a further 12 months.

II.2) **Description**

II.2.1) **Title:**

A1: Multi Disciplinary Engineering Services

Lot No: A1

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

45200000

71200000

71311000

71312000

71313000

71320000

II.2.3) **Place of performance**

NUTS code: UK

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

Multidisciplinary Services may include but will not be limited to a combination of the following sub categories, which have been detailed high level:

Civil Engineering and Structures

Mechanical and Electrical Engineering

Project and Programme Management

Asset Management

Architectural Services

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

A2: Multi Disciplinary Rail Engineering Services

Lot No: A2

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

34620000

34632100

34632200

50000000

II.2.3) **Place of performance**

NUTS code: UK

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

Multidisciplinary Services may include but will not be limited to a combination of the following sub categories on Rail:

General Railway Infrastructure

Rolling Stock and Assets Advice

Railway Infrastructure, Rolling Stock and Asset Research

Railway asset management

Stations - including access, property, parking, mobility and security, Depots and stabling - strategy and advice

Signalling and systems - strategy and advice

Rolling stock - strategy and advice, management, acceptance, planning

Technical due diligence

Rail engineering, feasibility & operating advice

Power / electrification - strategy and advice

Telecommunications / CIS - strategy and advice

Railway infrastructure and assets commercial advice

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

B1: Electrical and Mechanical Services Engineering

Lot No: B1:

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

50000000

51000000

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

Electrical and Mechanical (E&M) Services Engineering, also known as Building Services Engineering, is the discipline responsible for the building services within stations, depots, train crew accommodation, rail tunnels, road tunnels and other operational buildings.

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

B2: Fire and Safety Engineering

Lot No: B2

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

45210000

45300000

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

Fire Engineering involves specification, design, installation, inspection and audit necessary to support the delivery of Fire Engineering requirements. These services specifically enable the safe human habitation of buildings and aim to minimise the disruption to operations and maximise building use.

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

B3: Utilities Services

Lot No: B3

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

65000000

71300000

II.2.3) **Place of performance**

NUTS code: UK

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

TfL require the collection of underground utilities to ensure asset owners are aware of their assets and locations and to also reduce the number of deaths and injuries due to underground asset strikes. Knowing utility locations can also determine the outcome of proposed highway works and to reduce unforeseen costs of future work.

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

B4: Pumps, Hydraulics & Drainage and Sustainable Drainage (SuDS)

Lot No: B4

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

42122000

42510000

50000000

II.2.3) **Place of performance**

NUTS code: UK

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

Pumps, Hydraulics and Drainage is the provision of drainage and systems design (foul, surface and combined .), assessment and modelling (e.g. InfoWorks (ICM) / Microdrainage or similar), flood risk assessments, developing sustainable drainage strategies, advice on sustainability (SuDS) issues, hydrological analysis.

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) Additional information**II.2) Description****II.2.1) Title:**

B5: Earth Structures

Lot No: B5

II.2.2) Additional CPV code(s)

31000000

43000000

45000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

Earth Structures are generally defined as cuttings and embankments and other natural slopes which have been constructed to provide a corridor and support for roads and rail transport infrastructure.

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**II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

II.2.9) Information about the limits on the number of candidates to be invited**II.2.10) Information about variants**

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) Additional information**II.2) Description****II.2.1) Title:**

B6: Geotechnical Engineering and Site Investigation

Lot No: B6

II.2.2) Additional CPV code(s)

71332000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

Geotechnical Engineering is the provision of expert advice and support in assessing the stability and strength of soil and rock materials, as well as groundwater conditions.

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

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) Information about variants

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues

II.2.13) Information about European Union funds

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

II.2.14) Additional information

II.2) Description

II.2.1) Title:

B7: Ground Investigations

Lot No: B7

II.2.2) Additional CPV code(s)

45111250

71351500

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

Ground Investigation services are required to meet TfL Project requirements. A full range of services are required, including but not limited to:

1. Cable Percussive Boring (Standard and Modular)
2. Rotary Drilling (All Methods)
3. Cone Penetration Testing (All Types)
4. Dynamic Sampling (Hand Held, Modular, Tracked)
5. Dynamic Probing (All Types)
6. Hand Dug and Machine Dug Trial Pitting and Trenching
7. Foundation Inspection Pitting

8. Concrete Coring
9. Geophysical Surveys
10. Utility Surveys to PAS 128
11. In-situ (Field) Testing (CBR, Plate Load Bearing, Self-Boring Pressuremeter)
12. Soil and Rock Logging
13. Site Supervision
14. Instrumentation and Monitoring (Groundwater, Gas, Ground Movement)
15. Materials Testing
16. UXO Surveys and Supervision
17. UKAS/MCERTS Accredited Geotechnical/Environmental Soil, Rock and Aggregate Testing
18. Topographical Surveys
19. Ground Investigation Report (Factual)
20. Provision of AGS Data

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

B8: Topographical Surveys

Lot No: B8

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

71351810

71351811

II.2.3) **Place of performance**

NUTS code: UK

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

Land and Measured Survey services are required to meet TfL Project requirements. A full range of measured survey services is required, including but not limited to:

Track, tunnel and platform surveys

Tunnel gauging
 # Embankment and cuttings – earthworks
 # General topographical surveys
 Control networks
 # High Definition Scanning (HDS) surveys for 3D modelling of stations, tunnels, bridges and buildings
 # Track and structure monitoring
 # Tunnel to surface correlation surveys
 # Highway surveys
 # Measured building surveys
 # Setting-out of new works

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

B9: Engineering Business Management Consultancy Support

Lot No: B9

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

79410000

II.2.3) **Place of performance**

NUTS code: UK

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

Engineering Business Management Consultancy Support may include but will not be limited to a combination of the following:

Capabilities Details:

Provision of business management consultancy for TfL Engineering.

Provision of expertise to support the TfL Engineering's matrix management.

Provision of expertise to support engineering business performance measurement and improvement (i.e. business process and business change management in an engineering environment)

- # Provision of expertise to support the development of a culture of innovation and technology led change.
- # Provision of expertise in the application of new technologies.
- # Provision of strategic and technical advisory services

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

B10: Road Tunnels, M&E and Systems

Lot No: B10

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

45000000

II.2.3) **Place of performance**

NUTS code: UK

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

Road Tunnels comprise of a number of specialist M&E assets along with General building service requirements which span across a range of asset types found in the other areas of this section.

The supplier shall demonstrate their ability to provide technical and professional support with regards to Road Tunnels and their Tunnel Service / plant room buildings

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) Information about variants

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) Additional information**II.2) Description****II.2.1) Title:**

B11: Building Information Modelling (BIM)

Lot No: B11

II.2.2) Additional CPV code(s)

71200000

79993000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

BIM is a process involving the collaborative production, use and management of digital representations of the physical and functional characteristics of a facility / asset.

Standards, Methods & Procedures (SMPs) and Digital Engineering are key components of BIM: Standards, Methods & Procedures: provide a consistent collaborative approach to the production, use and management of data and information

Digital Engineering: the use, manipulation, simulation and analysis of digital data to inform decisions. Examples may include the use or application of virtual design (3D), virtual construction (4D), virtual estimating (5D), virtual energy / carbon management (6D), digital fabrication and the use of mobile technology

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**II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

II.2.9) Information about the limits on the number of candidates to be invited**II.2.10) Information about variants**

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

B12: Building Surveying and Condition Monitoring

Lot No: B12

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

45000000

II.2.3) **Place of performance**

NUTS code: UK

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

Building surveyors advise on the maintenance and repair, redevelopment and/or alterations to existing buildings. They advise on the continued fitness for purpose of buildings, within client requirements and applicable Legislation, Regulation and LU Standards. They also provide advice on the design and construction of new and altered buildings on the TfL estate.

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

B13: Buildings Control

Lot No: B13

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

71310000

II.2.3) **Place of performance**

NUTS code: UK

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

Some parts of TfL are "Statutory Undertakers" with some exemption of procedural obligations under the Building Act 1984 but still require all new work and alterations to existing buildings to comply with the Building

Regulations contained within Schedule 1. Other TfL modes do not act as “Statutory Undertakers” & so are required to engage independent Building Control Bodies (BCB) to ensure full compliance with procedural & substantive requirements of the Building Act 1984 & associated legislation.

Timely TfL & Building Control advice is required to be given on new and altered TfL premises within the framework of relevant legislation relating to building works within TfL operational boundaries. Such works include demolitions, alterations, installations, maintenance, change of use, additions, removals and temporary works.

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

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) Information about variants

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues

II.2.13) Information about European Union funds

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

II.2.14) Additional information

II.2) Description

II.2.1) Title:

B14: Bridges and Structures

Lot No: B14

II.2.2) Additional CPV code(s)

44000000

45221000

63712000

71322300

71631450

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

Bridges – Design and Assessment Engineering involves the design and assessment of rail and road bridges. It includes a wide range of bridge structures including overbridges, underbridges, footbridges, arches & viaducts, tenanted arches, pipe bridges, culverts, subways, retaining structures and gantries.

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**
- II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**
 Duration in months: 36
 This contract is subject to renewal: yes
 Description of renewals:
 Up to 12 months
- II.2.9) **Information about the limits on the number of candidates to be invited**
- II.2.10) **Information about variants**
 Variants will be accepted: no
- II.2.11) **Information about options**
 Options: no
- II.2.12) **Information about electronic catalogues**
- II.2.13) **Information about European Union funds**
 The procurement is related to a project and/or programme financed by European Union funds: no
- II.2.14) **Additional information**
- II.2) **Description**
- II.2.1) **Title:**
 B15: Buildings and Structures
 Lot No: B15
- II.2.2) **Additional CPV code(s)**
 45211000
 45212000
 45213000
 45215000
 45440000
 71000000
- II.2.3) **Place of performance**
 NUTS code: UK
- II.2.4) **Description of the procurement:**
 Buildings and Structures services include initial advice for business cases and feasibility studies, through concept and detailed design stages to full construction and handover. It requires the utilisation of computer software packages to undertake analysis, design and specialist assessment, such as vibration, dynamic response and fire resistance.
- 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**
- II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**
 Duration in months: 36
 This contract is subject to renewal: yes
 Description of renewals:
 Up to 12 months
- II.2.9) **Information about the limits on the number of candidates to be invited**

II.2.10) Information about variants

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) Additional information**II.2) Description****II.2.1) Title:**

B16: Marine Engineering

Lot No: B16

II.2.2) Additional CPV code(s)

45000000

71000000

90712300

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

The supplier shall be able to demonstrate their knowledge and ability to communicate with and advise their client in the following areas in the marine environment:

a) Marine Structures Engineering

b) Architecture

c) Marine Vessel Engineering

d) Marine Asset Incident Investigation

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**II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

II.2.9) Information about the limits on the number of candidates to be invited**II.2.10) Information about variants**

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) Additional information

II.2) **Description**

II.2.1) **Title:**

B17: Obsolescence Management

Lot No: B17

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

71310000

71340000

II.2.3) **Place of performance**

NUTS code: UK

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

IEC 62402 defines obsolescence as the, "Transition from being obtainable from the original manufacturer to becoming unobtainable". The objective of Obsolescence Management in TfL is to ensure that the risks of obsolescence are effectively and economically managed to meet TfL's commitment to provide a world class, safe and reliable transport system for London.

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

B18: Tunnelling Engineering

Lot No: B18

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

45221000

45221247

63712000

II.2.3) **Place of performance**

NUTS code: UK

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

Tunnelling Engineering describes the provision of a conduit or space under or through an obstacle, e.g. a road or rail system under a busy city centre or a road link underneath a river. Critical to the construction of the tunnel is the length, size and the ground & groundwater conditions.

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

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) Information about variants

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues

II.2.13) Information about European Union funds

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

II.2.14) Additional information

II.2) Description

II.2.1) Title:

C1: Transport Architecture

Lot No: C1

II.2.2) Additional CPV code(s)

45213350

71000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

The scope of this lot includes the design of new buildings, extensions to existing buildings and remodelling or refurbishment of existing buildings.

This applies to all stages of the project lifecycle from Outcome Definition to Handover and suppliers should demonstrate their capabilities within each stage.

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

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) Information about variants

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues

II.2.13) Information about European Union funds

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

II.2.14) Additional information

II.2) Description

II.2.1) Title:

C2: Non Transport Architecture

Lot No: C2

II.2.2) Additional CPV code(s)

71000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

This applies to all stages of the project lifecycle from Outcome Definition to Handover and suppliers should demonstrate their capabilities within each stage.

Buildings under the section 'non-station architecture' include:

Office and Staff Support buildings – eg train crew accommodation, bus driver facilities

30

Staffed Operations buildings – eg control centres, surface transport ticket kiosks

Un-staffed Operations buildings – signal equipment rooms

Maintenance buildings – eg depot train sheds

Storage buildings

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

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) Information about variants

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues

II.2.13) Information about European Union funds

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

C3: Commercial Architecture Support

Lot No: C3

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

45213000

II.2.3) **Place of performance**

NUTS code: UK

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

Architectural Commercial Support includes initial advice for business cases and feasibility studies, through concept and detailed design stages to full construction and handover.

This applies to all stages of the project lifecycle from Outcome Definition to Handover and suppliers should demonstrate their capabilities within each stage.

The supplier shall demonstrate their ability provide technical and professional support for architectural projects across a range of scales. Projects are most likely to include retail, office, residential and mixed use schemes but may include other typologies.

Services may be procured across one or all of the RIBA stages (or equivalent), including concept design, feasibility, detailed design, construction information and monitoring. Works may be new build or refurbishment.

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

C4: Urban Design

Lot No: C4

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

45211360

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

Urban design involves the design, and advice on the design of new public realm, streetscape, public space and landscape architecture. Many of TfL's projects involve or include changes to or new the creation of new areas of public realm, which in turn provide the setting for new, renewed or upgraded transport infrastructure.

This applies to all stages of the project lifecycle from Outcome Definition to Handover and suppliers should demonstrate their capabilities within each stage

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

C5: Structural Engineering – Architectural Design

Lot No: C5

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

45220000

45260000

71312000

II.2.3) **Place of performance**

NUTS code: UK

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

To support the design of Architectural projects this lot seeks specialist structural engineering and design expertise associated with the following;

- Station Canopies

- Bridges, cantilevered walkways and cycleways

- Visual Concrete
- Architecturally designed retaining structures
- Complex internal structural adjustments
- Complex, lightweight or specialist building structural design

The Lot applies to all stages of the project lifecycle from Outcome Definition to Handover and suppliers should demonstrate their capabilities within each stage.

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

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) Information about variants

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues

II.2.13) Information about European Union funds

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

II.2.14) Additional information

II.2) Description

II.2.1) Title:

D1: Traffic Engineering Projects

Lot No: D1

II.2.2) Additional CPV code(s)

71000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

The supplier shall demonstrate their knowledge and ability to communicate, advise and for the following business portfolios:

- 20mph Speed Limits/Signing and Line marking design
- Bus Priority and Bus Stop Accessibility schemes
- Road Safety studies and collision analysis
- Small Multi-Modal Schemes inclusive of junction and link design, parking, enforcement, loading and freight studies
- Transformational Schemes (Interchanges, gyratory removal, grade separation, pedestrianisation)
- Cycling schemes (Inclusive of significant infrastructure interventions)
- Designer and Principal Designer responsibilities as per CDM Regulations 2015

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**II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months renewal is permitted

II.2.9) Information about the limits on the number of candidates to be invited**II.2.10) Information about variants**

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) Additional information**II.2) Description****II.2.1) Title:**

D2: Engineering Skills and Support

Lot No: D2

II.2.2) Additional CPV code(s)

71000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

The supplier shall demonstrate their knowledge and ability to provide, support and deliver for the following engineering workstreams/skillsets:

- Production of public consultation information including visualisations and use of Adobe Illustrator
- Urban/Streetscape Design
- Street Lighting Design
- Hostile Vehicle Mitigation and Vehicle Restraint System Design
- Local Area Traffic Modelling (using packages as LINSIG2, TRANSYT, PICADY)
- Highway Drainage/SUDS design
- AutoCAD Civil 3D
- Environmental Impact Assessments
- Sustainability Audits
- Risk Management
- Assurance/Quality Management/Design Auditing
- Engineering support for assessment of planning applications and development control
- Whole life project cost estimating
- Healthy Streets Designer Checks
- Scheme Monitoring/Benefits realisation

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**II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

II.2.9) Information about the limits on the number of candidates to be invited**II.2.10) Information about variants**

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) Additional information**II.2) Description****II.2.1) Title:**

D3: Ad Hoc Survey Procurement/Data Collection and Analysis

Lot No: D3

II.2.2) Additional CPV code(s)

71000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

The supplier shall demonstrate their knowledge and ability to deliver and analyse if required the following surveys:

- PAS 128 Survey (Cat A-D)/Statutory undertaker surveys
- Traffic Counts (OD/Classified/Pedestrian/Speed)
- Topographic/Sign Surveys
- Kerbside Activity Surveys
- Drainage CCTV Surveys
- Street Lighting Surveys
- Noise and Vibration Surveys
- Ground Conditions/Site Investigations/Trial Holes
- Air Quality Surveys
- Archaeological Surveys
- Environmental Surveys

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

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

II.2.9) Information about the limits on the number of candidates to be invited**II.2.10) Information about variants**

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) Additional information**II.2) Description****II.2.1) Title:**

D4: Highways Engineering

Lot No: D4

II.2.2) Additional CPV code(s)

71000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

Highway Engineering services are required to enable the safe and cost efficient operation and maintenance of the TfL road network. This involves investigation, specification, design at all stages, inspection, and assurance as necessary for the delivery of engineering activities throughout all stages of asset life cycle.

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**II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

II.2.9) Information about the limits on the number of candidates to be invited**II.2.10) Information about variants**

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

D5: Traffic Control Engineering

Lot No: D5

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

Traffic Control Engineering (TCE) forms part of the TfL Engineering Highways and Traffic Profession. TCE is accountable for discharging engineering technical authority for all TfL owned traffic control Infrastructure including Traffic Signals, Over-height Vehicle Detection (OVD) and Variable Message Signs (VMS).

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

D6: Traffic Signal Controller Configuration and Testing

Lot No: D6

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

The supplier shall demonstrate their ability to meet the delivery requirements for the writing and/or testing of Traffic Signal Controller Configurations. Ensuring what is specified in the detailed signal design (signal layout and controller specification) is reflected in the configuration.

- 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**
- II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**
Duration in months: 36
This contract is subject to renewal: yes
Description of renewals:
Up to 12 months
- II.2.9) **Information about the limits on the number of candidates to be invited**
- II.2.10) **Information about variants**
Variants will be accepted: no
- II.2.11) **Information about options**
Options: no
- II.2.12) **Information about electronic catalogues**
- II.2.13) **Information about European Union funds**
The procurement is related to a project and/or programme financed by European Union funds: no
- II.2.14) **Additional information**
- II.2) **Description**
- II.2.1) **Title:**
D7: Intelligent Transport Systems
Lot No: D7
- II.2.2) **Additional CPV code(s)**
71000000
- II.2.3) **Place of performance**
NUTS code: UK
- II.2.4) **Description of the procurement:**
Intelligent Transport Systems Engineering discipline encompasses the specification, design, assessment, implementation, support and assurance of Intelligent Transport Systems technology, including but not exclusive to Urban Traffic Control (UTC) systems, , digital communications and detectors for traffic control featuring advanced functionalities such as vehicle counting and classification.
- 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**
- II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**
Duration in months: 36
This contract is subject to renewal: yes
Description of renewals:
Up to 12 months
- II.2.9) **Information about the limits on the number of candidates to be invited**
- II.2.10) **Information about variants**
Variants will be accepted: no
- II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

D8: Road Safety Audit & Collision Investigation

Lot No: D8

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

Road Safety Auditing is a defined process that considers operational road safety of a change to the highway. The requirements and procedure for the completion and delivery of Road Safety Audits, within Greater London, is defined in TfL's Road Safety Audit Procedure (SQA-0170), the current edition is dated May 2014. The supplier shall demonstrate their ability to adhere to the delivery requirements of TfL's Road Safety Audit Procedure SQA-0170 (Current edition dated May 2014).

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

D9: Provision of arboricultural technical expertise

Lot No: D9

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

The technical specialism Arboriculture covers all matters relating to the disciplines of arboriculture and urban forestry including the management of street trees and woodlands.

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

D10: Provision of horticultural technical expertise

Lot No: D10

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

The technical specialism of Horticulture covers all matters relating to the disciplines of landscape and horticulture, including shrub beds, bedding and grass verges.

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

D11: Provision of 'built green infrastructure' technical expertise

Lot No: D11

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

The technical specialism of 'Built green infrastructure' covers all matters relating to built green infrastructure including green walls and green roofs.

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

D12: Bus Design Engineering

Lot No: D12

II.2.2) Additional CPV code(s)

71000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

The delivery of successful bus designs or bus modifications depends on the following skill sets:

- Validation of project and stakeholder requirements
- Liaising closely with bus OEM, DVSA, VCA and other road vehicle authorised testing bodies
- Liaising closely with bus engineering specialist and maintenance staff during the design process
- Interfacing with other TfL engineering disciplines e.g. roads and building infrastructure, bus garage, bus stations, surface engineering power engineering and operations.
- Carrying out any necessary visits to depots to investigate failure modes, examine reports, analyse results and develop innovative, cost-effective solutions in collaboration with engineers
- Carrying-out any necessary site visits to depots to examine a range of bus designs/models types and conducting design correlation activities
- Provision of competent and M2/M3 category passenger vehicle experience and specialist resources to design, check and approve designs
- Knowledge of, or obtaining knowledge of and implement London bus design standards, operational performance and assurance arrangements
- Availability of the supporting tools e.g. CAD, Software Development tools, or other tools, to support the production of the designs and drawings
- Delivering all documentation to ensure the works can be built, installed, tested , commissioned and maintained over its design life

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**II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

II.2.9) Information about the limits on the number of candidates to be invited**II.2.10) Information about variants**

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) Additional information**II.2) Description****II.2.1) Title:**

D13: Bus Specialist Engineering Support

Lot No: D13

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

The supplier will need to demonstrate specialist knowledge and understanding of all professional engineering matters relating to Bus Engineering and be able to apply them to the operation of different propulsion systems, pure electric, hydrogen, high powered inductive and conductive charging

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

D14: Bus Specialist Investigation Support

Lot No: D14

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

The supplier will need to demonstrate specialist knowledge and understanding of all professional engineering matters relating to road passenger transport technical investigations and be able to apply them to the operation of different propulsion system; pure electric, hydrogen, high powered inductive and conductive charging.

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**

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

II.2.9) Information about the limits on the number of candidates to be invited**II.2.10) Information about variants**

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) Additional information**II.2) Description****II.2.1) Title:**

E1: Rolling Stock Design Engineering

Lot No: E1

II.2.2) Additional CPV code(s)

71000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

The supplier shall demonstrate their knowledge and ability to communicate with and advise their client in the following areas:

- Brake systems
- Door systems
- Car bodies
- Bogie
- Mechanical design
- Electrical design, installation and protection (high / low voltage)
- Auxiliary systems design
- Pneumatic system design
- Structural integrity
- Fire performance of materials
- Propulsion systems
- Train management system design and functionality
- Rolling stock maintenance
- Rolling stock testing and commissioning
- Depot equipment (and associated equipment/systems)
- Rolling stock audits and inspections

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**
- II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**
 Duration in months: 36
 This contract is subject to renewal: yes
 Description of renewals:
 Up to 12 months
- II.2.9) **Information about the limits on the number of candidates to be invited**
- II.2.10) **Information about variants**
 Variants will be accepted: no
- II.2.11) **Information about options**
 Options: no
- II.2.12) **Information about electronic catalogues**
- II.2.13) **Information about European Union funds**
 The procurement is related to a project and/or programme financed by European Union funds: no
- II.2.14) **Additional information**
- II.2) **Description**
- II.2.1) **Title:**
 E2: Rolling Stock System Specialist Engineering Support
 Lot No: E2
- II.2.2) **Additional CPV code(s)**
 71000000
- II.2.3) **Place of performance**
 NUTS code: UK
- II.2.4) **Description of the procurement:**
 The supplier shall demonstrate their knowledge and ability to communicate with and advise their client in the following areas:
- Brake systems
 - Door systems
 - Car bodies
 - Bogies
 - Crashworthiness
 - Mechanical design
 - Electrical design, installation and protection (high / low voltage)
 - Auxiliary systems design
 - Pneumatic system design
 - Structural integrity
 - Fire performance of materials
 - Propulsion systems
 - Train management system design and functionality
 - On-train diagnostic systems – e.g. Rolling Stock CCTV, incident recorder systems
 - Automatic Train Operation (ATO) systems
 - Automatic Train Protection systems
 - Train performance

- Wheelset design
- Wheel rail interface
- Optimisation of train performance in low adhesion conditions
- Noise, ride & vibration
- Vehicle Dynamics
- Rolling stock maintenance
- Rolling stock testing and commissioning
- Depot equipment (and associated equipment/systems)
- Rolling stock audits and inspections
- Human factors, cab design and driver ergonomics
- Incident investigation
- Feasibility studies with business cases
- ALARP justification and QRA

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

E3: Rolling Stock Specialist Investigation/testing Support

Lot No: E3

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

The supplier shall demonstrate their knowledge and ability to communicate with and advise their client in the following areas:

- Brake systems
- Door systems

- Car bodies
- Bogies
- Crashworthiness
- Mechanical design
- Electrical design, installation and protection (high / low voltage)
- Auxiliary systems design
- Pneumatic system design
- Structural integrity
- Fire performance of materials
- Propulsion systems
- Train performance
- Wheel rail interface
- Noise, ride & vibration
- Vehicle Dynamics
- Rolling stock maintenance
- Rolling stock testing and commissioning
- ALARP justification and QRA

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

E4: Depot Engineering, Plant and Equipment

Lot No: E4

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

- Depots and non-rolling stock depots
- Fire compliance of materials for Depot equipment (Non E&M)
- Fire engineering within a metro rail system and compartmentation
- Specific Skills, Knowledge and Experience of roiling stock related depot, plant and equipment:-
- Train washes
- Wheel Lathes and associated equipment
- Jacking / Lifting systems
- Bogie press, drop tables and jigs
- Equipment lifting tables/equipment

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

E5: Transport System and Railway Development

Lot No: E5

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

The objectives of a transport system project development assignment are to:

- Work with stakeholders and agree the requirements of the problem to be solved.
- Identify possible solution options, their feasibility, benefits, costs and risks.
- Prepare a business case to justify works to implement a solution.

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**

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

II.2.9) Information about the limits on the number of candidates to be invited**II.2.10) Information about variants**

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) Additional information**II.2) Description****II.2.1) Title:**

E6: Incident Investigation

Lot No: E6

II.2.2) Additional CPV code(s)

71000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

Incident Investigation involves accident investigation including accident assessment, repair assessment and brake investigations on assignments such as depot derailments and collision damage.

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**II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

II.2.9) Information about the limits on the number of candidates to be invited**II.2.10) Information about variants**

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

E7: Transportation Information, Security and Surveillance systems

Lot No: E7

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

Transportation Information, Security and Surveillance systems are deployed throughout TfL's transport network to enable the safe and efficient operation of TfL's multi-modal capability and are commonly considered vital to the organisation's capability to offer services to its customers. These systems ordinarily interact with travelling customers, operational personnel, operational control systems and third party systems and therefore require complex systems engineering and systems integration to result in expected high levels of function, usability, performance and availability.

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

E8: Transport Control Systems Engineering

Lot No: E8

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

As demand for public transport rises TfL needs to augment passenger capacity to meet this ever increasing demand. This increase in capacity necessitates a greater degree of automation and communication facilities to monitor and control services, ensuring the public are able to feel secure in our stations and rolling stock while travelling efficiently. In order to do this engineered systems are required to be developed integrating railway assets, procedures and people.

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

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) Information about variants

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues

II.2.13) Information about European Union funds

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

II.2.14) Additional information

II.2) Description

II.2.1) Title:

E9: Cyber Security Engineering

Lot No: E9

II.2.2) Additional CPV code(s)

48000000

71000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

Following the recent government spending review, TfL continues to increase passenger capacity to meet ever increasing demand, and improve customer service across all modes.

Our service is now more reliant on computer, communication, and software systems and the interconnectivity between electronic systems is increasing unabated. This includes the connectivity between systems within our organisation and interfaces to external networks (such as the internet and COTS-based wireless communication systems). To improve the delivery of transport services and enhance the customer experience there is a desire to obtain, communicate and utilise the information that is generated and used by our systems.

To protect against safety threats, deliver services reliability and consistently, reduce costs through unnecessary reactive controls, mitigations and recoveries, and to restrict the reputational damage to TfL from undesirable actions or threats, the electronic security of systems and information is critically important to us.

- 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**
- II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**
Duration in months: 36
This contract is subject to renewal: yes
Description of renewals:
Up to 12 months
- II.2.9) **Information about the limits on the number of candidates to be invited**
- II.2.10) **Information about variants**
Variants will be accepted: no
- II.2.11) **Information about options**
Options: no
- II.2.12) **Information about electronic catalogues**
- II.2.13) **Information about European Union funds**
The procurement is related to a project and/or programme financed by European Union funds: no
- II.2.14) **Additional information**
- II.2) **Description**
- II.2.1) **Title:**
E10: Communications Engineering
Lot No: E10
- II.2.2) **Additional CPV code(s)**
71000000
- II.2.3) **Place of performance**
NUTS code: UK
- II.2.4) **Description of the procurement:**
Communication networks are deployed throughout TfL's transport networks to enable and support operations, maintenance and support services in wide range of geographic locations. Support is provided locally and at line and network control centres. Communications networks provide key interfaces and functions to TfL's staff, customers and third parties. They facilitate normal, degraded and emergency mode of service operation but also interface with the emergency services during incidents.
- 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**
- II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**
Duration in months: 36
This contract is subject to renewal: yes
Description of renewals:
Up to 12 months
- II.2.9) **Information about the limits on the number of candidates to be invited**
- II.2.10) **Information about variants**
Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) Additional information**II.2) Description****II.2.1) Title:**

E11 : Systems Engineering

Lot No: E11

II.2.2) Additional CPV code(s)

71000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

Systems engineering is an interdisciplinary approach and a mean to enable the delivery of systems that will meet the customer/user needs. It focuses on defining customer/user needs and requirements early in the development cycle systematically, documenting them, and then proceeding with design synthesis, implementation and system verification and validation while considering the complete problem, including operations, cost and schedule, performance, training, test, manufacturing and disposal.

Systems engineering is a combination of various techniques that aims to manage engineering risk throughout the projects / programmes lifecycle by considering the problem as a whole rather than disparate parts.

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**II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

II.2.9) Information about the limits on the number of candidates to be invited**II.2.10) Information about variants**

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) Additional information**II.2) Description****II.2.1) Title:**

E12: Information Securities Engineering

Lot No: E12

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

Information security engineering is a set of risk-based technical and procedural controls to minimise vulnerabilities of engineering systems to electronic (or cyber) threats throughout the asset lifecycle. In the TfL environments, particular systems are critical to the safe and reliable operation of the railway, such a road and rail signalling systems, SCADA, customer information systems and CCTV systems.

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

E13: High Integrity Software Based Systems

Lot No: E13

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

Software systems are increasingly at the core of modern transport networks. TfL undertakes the following roles within the transport network: operator, specifier, intelligent client and overall integrator. In general, TfL prefers not to specify and procure bespoke software, due to the impacts of risk, time and cost. This strategy results in the need to leverage supplier's products where necessary, with adaptation and modification for the particular transport application's environment and needs. Managing the specification, development, test, migration and

performance of (supplier) software is often critical to the successful delivery of transport projects and transport systems.

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

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) Information about variants

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues

II.2.13) Information about European Union funds

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

II.2.14) Additional information

II.2) Description

II.2.1) Title:

E14: Simulation and Modelling

Lot No: E14

II.2.2) Additional CPV code(s)

71000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

System Performance Engineering aims to understand the behaviour of railway performance as a whole and how constituent parts interact. Modelling tool-sets are used to improve and optimise network capacity through the identification and mitigation of system constraints. In delivering this capability, TfL develops in-house software based engineering tools to allow for detailed understanding of the railway as a whole. TfL applies this engineering capability at different stages of the programme lifecycle to ensure the railway performs as intended, efficiently and effectively

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

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

E15: System Safety Engineering

Lot No: E15

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

System safety engineering is the identification, understanding, management and control of safety hazards that originate from incorrect operation or use and that could harm the customers or staff of a transport system.

The objective of System Safety Engineering is to demonstrate that the transport system is free from harm and that safety risks are managed to acceptable levels.

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

E16: SCADA

Lot No: E16

II.2.2) Additional CPV code(s)

71000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

SCADA is an acronym for Supervisory Control and Data Acquisition. SCADA systems are used to monitor and control plant or equipment in many applications such as telecommunications, electrical power control and railway transportation.

The supplier will be expected to supply advice, studies, test procedures, analysis, reports, design and supervision services which will, in turn, rely and depend on skill, competence and capabilities including but not limited to the following capability details:

The supplier shall demonstrate competence in:

- SCADA requirements including legislation and standards, operational and maintenance requirements
- Design, development and implementation of SCADA architectures; distributed, networked, cloud-based
 - o Telecoms networks – LAN's / WAN's, fibre-based transmission, wireless
 - o PLC's/ RTU's design applications in SCADA type plant/ environments
 - o PLC/ RTU programming / ladder logic/ IEC 61131-3
 - o SCADA protocols – Modbus-TCP, Ethernet, TCP/IP, DNP3, IEEE 60870-5
 - o SCADA standards - IEEE 60870, IEEE C37.1-2007
- SCADA testing and commissioning
- Preparing SCADA documentation
- TfL Transport Networks including TfL Railway Environment domain Knowledge

Knowledge and understanding of the SCADA systems, other assets, processes and roles that are used in the railway environments of London Underground, the Docklands Light Railway, London Overground and Croydon Tramlink.

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

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) Information about variants

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues

II.2.13) Information about European Union funds

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

E17: R&R TCS Electronics

Lot No: E17

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

Electronics is equipment that contains circuit boards, circuitry and components that are used for transmitting or processing analogue and/or digital data. On the TfL estate this ranges from hand-drawn and built circuitry from the 1950s to modern microprocessor based systems with surface mount construction. TfL are seeking specialist support to undertake electronics design to support delivery and maintenance projects, primarily for signalling and fleet. The scale of this scope could be from a single design for one-off use through to design changes and upgrades that have network-wide implications.

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

E18: Electromagnetic compatibility (EMC)

Lot No: E18

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

Electromagnetic compatibility is the understanding, management and control of electromagnetic interference arising from the emission of electromagnetic energy from systems and the impact of that phenomenon on other systems that are susceptible to it. The objective of EMC is to control emissions and susceptibility, so that adverse effects are avoided.

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

E19: Human Factors

Lot No: E19

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

Human Factors (HF) is the understanding of interactions between humans and other elements of a transport system, and the application of theory, principles, data and methods to the analysis and design of the transport system in order to optimise overall system performance through optimised human performance and well-being.

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) Information about variants

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) Additional information**II.2) Description****II.2.1) Title:**

E20: Reliability Availability Maintainability (RAM)

Lot No: E20

II.2.2) Additional CPV code(s)

71000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

TfL's customers and stakeholders expect Transport Systems within London to be reliable and affordable.

- Reliability is the probability that a system will continue to perform correctly to a particular time.
- Availability is the ability of a system to be in a state to perform correctly at any time.
- Maintainability is the probability that a maintenance action can be carried out within a stated time interval.

Maintainability also includes the cost of planned maintenance activities required to support safe and reliable operation in service.

The objective of RAM within TfL is to manage the reliability, availability and cost of transport networks so that the performance of these three parameters improves continuously and the adverse effects of any changes are avoided.

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**II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

II.2.9) Information about the limits on the number of candidates to be invited**II.2.10) Information about variants**

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

- II.2.14) **Additional information**
- II.2) **Description**
- II.2.1) **Title:**
E21: Railborne and non railborne equipment
Lot No: E21
- II.2.2) **Additional CPV code(s)**
71000000
- II.2.3) **Place of performance**
NUTS code: UK
- II.2.4) **Description of the procurement:**
- Assessment of track railborne and non railborne equipment for track renewals
 - Assessment of track railborne and non railborne equipment for track maintenance
 - Approval of track railborne and non railborne equipment
 - Standards including specifications
- 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**
- II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**
Duration in months: 36
This contract is subject to renewal: yes
Description of renewals:
Up to 12 months
- II.2.9) **Information about the limits on the number of candidates to be invited**
- II.2.10) **Information about variants**
Variants will be accepted: no
- II.2.11) **Information about options**
Options: no
- II.2.12) **Information about electronic catalogues**
- II.2.13) **Information about European Union funds**
The procurement is related to a project and/or programme financed by European Union funds: no
- II.2.14) **Additional information**
- II.2) **Description**
- II.2.1) **Title:**
E22: Track Configuration and Layout
Lot No: E22
- II.2.2) **Additional CPV code(s)**
71000000
- II.2.3) **Place of performance**
NUTS code: UK
- II.2.4) **Description of the procurement:**
- Strategy
 - Feasibility Design

- Track Component design
- Noise and Vibration
- Wheel Rail Interface
- Standards including specifications

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**

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.12) **Information about electronic catalogues**

II.2.13) **Information about European Union funds**

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

II.2.14) **Additional information**

II.2) **Description**

II.2.1) **Title:**

E23: Signalling Installation, Testing and Maintenance Engineering

Lot No: E23

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

71000000

II.2.3) **Place of performance**

NUTS code: UK

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

The supplier shall demonstrate their knowledge and ability to communicate with and advise their client in one or more of the following areas:

- Signalling installation, testing and commissioning
- Signalling maintenance & repair
- Signalling audit and inspection
- Incident investigation
- Signalling asset management / asset performance
- Point operating equipment
- Remote condition monitoring
- Risk based maintenance
- Assurance activities for product and system acceptance
- General technical support

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**II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

II.2.9) Information about the limits on the number of candidates to be invited**II.2.10) Information about variants**

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues**II.2.13) Information about European Union funds**

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

II.2.14) Additional information**II.2) Description****II.2.1) Title:**

E24: Signal Design Engineering

Lot No: E24

II.2.2) Additional CPV code(s)

71000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

The supplier shall demonstrate their knowledge and ability to communicate with and advise their client in the following areas:

- Signalling design process
- Interfaces with a variety of equipment including, but not limited to, Point operating equipment, Passenger information systems, Remote condition monitoring .
- Fixed block legacy signalling systems
- Automatic Train Control (ATC) systems, including coded track and Communications Based Train Control (CBTC) systems that provide Automatic Train Operation (ATO) and Automatic Train Protection (ATP)
- Automatic Train Supervision (ATS) systems
- Assurance activities for product and system acceptance
- General technical support

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**II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) Information about variants

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues

II.2.13) Information about European Union funds

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

II.2.14) Additional information

II.2) Description

II.2.1) Title:

E25: Power Engineering

Lot No: E25

II.2.2) Additional CPV code(s)

71000000

II.2.3) Place of performance

NUTS code: UK

II.2.4) Description of the procurement:

The supplier shall demonstrate their knowledge and ability to communicate with and advise their client in the following areas:

- Power SCADA specialism
- AC Power Modelling and Studies (including DNO and National Grid infrastructure assessments)
- DC Power Modelling
- Train Simulation and Multi Train Simulation for Power System Modelling
- Power Quality Studies (including DNO and National Grid infrastructure assessments)
- Power System Reliability Modelling
- Harmonic Profile Modelling (including DNO and National Grid infrastructure assessments)
- AC Protection Studies
- Asset Management deep technical support e.g. review of age profiles and specialist asset condition assessments
- High Voltage specialist technical support e.g. Specialist advice and support on partial discharge monitoring and testing
- Development of HV Power electrical design, including concept and detailed design
- Earthing systems specialist advice and technical support
- All aspects of DC Electrical Track Equipment (ETE) including conductor rail design
- Overhead Line Equipment (OLE) design and maintenance

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

II.2.7) Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 36

This contract is subject to renewal: yes

Description of renewals:

Up to 12 months

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

II.2.10) Information about variants

Variants will be accepted: no

II.2.11) Information about options

Options: no

II.2.12) Information about electronic catalogues

II.2.13) Information about European Union funds

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

II.2.14) Additional information

Section III: Legal, economic, financial and technical information

III.1) Conditions for participation

III.1.1) Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers

III.1.2) Economic and financial standing

III.1.3) Technical and professional ability

III.1.5) Information about reserved contracts

III.2) Conditions related to the contract

III.2.1) Information about a particular profession

III.2.2) Contract performance conditions:

III.2.3) Information about staff responsible for the performance of the contract

Section IV: Procedure

IV.1) Description

IV.1.1) Type of procedure

Restricted procedure

IV.1.3) Information about a framework agreement or a dynamic purchasing system

The procurement involves the establishment of a framework agreement

Framework agreement with several operators

In the case of framework agreements, provide justification for any duration exceeding 4 years:

IV.1.4) Information about reduction of the number of solutions or tenders during negotiation or dialogue

IV.1.6) Information about electronic auction

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.2.1) Previous publication concerning this procedure

Notice number in the OJ S: [2019/S 015-031278](#)

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

Date: 26/07/2019

Local time: 17:00

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

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**

IV.2.7) **Conditions for opening of tenders**

Section VI: Complementary information

VI.1) **Information about recurrence**

This is a recurrent procurement: no

VI.2) **Information about electronic workflows**

VI.3) **Additional information:**

The Contracting Authority expressly reserves the right:

(i) not to award any contract as a result of the procurement process commenced by publication of this notice; and

(ii) to make whatever changes it may see fit to the content and structure of the tendering competition; and in no circumstances will the Contracting Authority be liable for any costs incurred by the Tenderers. If the Contracting Authority decides to enter into a Framework Agreement with the successful supplier(s), this does not mean that there is any guarantee of subsequent contracts being awarded. Any expenditure, work or effort undertaken prior to contract award is accordingly a matter solely for the commercial judgement of potential suppliers. Any orders placed under this Framework Agreement will form a separate contract under the scope of this framework between the supplier and the specific requesting other contracting body. The Contracting Authority and other contracting bodies utilising the framework reserve the right to use any electronic portal during the life of the agreement.

Please note all economic operators are required to express their interest by registration on the e-tendering website as listed below. After registering you should look for the opportunity "TfL Professional Services Frameworks 2: Engineering Consultancy Framework (PSF2) – TfL 94203". Economic operators interested in being considered for this opportunity must express interest by means of completing the standard selection questionnaire detailing their capabilities.

Transport for London (TfL) reserve the right not to consider expressions of interest received after the closing date/time or received by means other than the portal.

TfL reserves the right at any stage to reject or disqualify or revise the pre-qualified status of any tenderer who:

- 1) Provides information or confirmations which later prove to be untrue or incorrect; and/or
- 2) Does not submit a tender in accordance with the requirements of this ITT or as directed by TfL during the procurement process; and/or
- 3) Fulfils any one or more of the criteria detailed in Regulation 57 of the Public Contracts Regulations 2015. This procurement process is being conducted electronically on the e-Tendering portal ProContract from Proactis. The portal can be accessed via the following link: (<https://procontract.due-north.com>)

TfL is a complex organisation operating both as an executive agency of the Greater London Authority (GLA) under the direction of the Mayor of London and as provider of transport services. The services may be provided to GLA/TfL and/or its subsidiaries and may also encompass London Regional Transport (LRT). TfL will be establishing a Framework Agreement for use by all London Boroughs (and any future successors to these organisations), City of London and the Greater London Authority and all its Functional Bodies.

Any orders placed under this Framework Agreement will form a separate contract under the scope of this framework between the supplier and the specific Contracting Authority.

The Contracting Authority and other contracting bodies utilising the framework reserve the right to use any electronic portal during the life of the agreement. TfL reserve the right to withdraw any Lot(s) due to changes in TfL's Engineering demand. TfL will provide 30 Calendar days notice of this.

This procurement process is being conducted electronically on the e-Tendering portal ProContract from Proactis. The portal can be accessed via the following link:

(<https://procontract.due-north.com>). Interested suppliers must express their interest as soon as possible via the portal to access and download all relevant procurement documents and submit a standard selection questionnaire (SSQ) by the deadline stated in IV.2.2) Time Limit for receipt of tenders, requests to participate or expressions of interest.

VI.4) **Procedures for review**

VI.4.1) **Review body**

Transport for London
55 Broadway
London
SW1H 0BD
United Kingdom

VI.4.2) **Body responsible for mediation procedures**

VI.4.3) **Review procedure**

VI.4.4) **Service from which information about the review procedure may be obtained**

Transport for London
55 Broadway
SW1H 0BD
United Kingdom
E-mail: psfw2@tfl.gov.uk

VI.5) **Date of dispatch of this notice:**

26/06/2019