

**United Kingdom-London: Train-monitoring system**  
**OJ S 213/2015 04/11/2015**  
**Contract notice – utilities**  
**Supplies**

**Directive 2004/17/EC**

**Section I: Contracting entity**

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**I.1. Name and addresses**

Official name: London Underground Limited  
Postal address: Windsor House, 42-50 Victoria Street  
Town: London  
Postal code: SW1H 0TL  
Country: United Kingdom  
Contact person: Procurement Manager  
For the attention of: Philip Lewis  
E-mail: [jltrainrcmwifi@tubelines.com](mailto:jltrainrcmwifi@tubelines.com)  
Telephone: +44 2070383080

**Additional information can be obtained from:**

the abovementioned address

**Specifications and additional documents (including documents for a dynamic purchasing system) can be obtained from:** the abovementioned address

**Tenders or requests to participate must be submitted:** the abovementioned address

**I.2. Main activity**

Railway services

**I.3. Contract award on behalf of other contracting entities**

The contracting entity is purchasing on behalf of other contracting entities: no

**Section II: Object of the contract**

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**II.1. Description**

**II.1.1. Title attributed to the contract by the contracting entity**

TfL-00421 Supply of Jubilee Line Trains Ethernet System Components.

**II.1.2. Type of contract and place of performance or delivery**

Supplies

Purchase

Main site or place of performance: Stratford Market Depot, London, E15 2SP.

NUTS code UKJ South East (England)

**II.1.3. Information about a framework agreement or a dynamic purchasing system**

The procurement involves the establishment of a framework agreement

**II.1.4. Information about framework agreement**

Framework agreement with a single operator

**Duration of the framework agreement**

Duration in years: 3

**Estimated total value of purchases for the entire duration of the framework agreement**

Estimated value excluding VAT  
Range: between 1 and 3 200 000 GBP

**II.1.5. Short description of the contract or purchase(s)**

Supply of materials, kitting and installation services for ethernet and radio data communications for the Jubilee Line Trains as part of the Predict and Prevent Programme. There is a commitment for only 3 trains, with the further 60 trains being conditional on overall costs that come in supporting the business case for the programme and the number of trains that need to be fitted out.

**II.1.6. CPV code(s)**

34943000 Train-monitoring system - JA12 - MA08

**II.1.7. Information about the Government Procurement Agreement (GPA)**

The procurement is covered by the Government Procurement Agreement: yes

**II.1.8. Information about lots**

This contract is divided into lots: yes  
Tenders may be submitted for one or more lots

**II.1.9. Information about variants**

Variants will be accepted: no

**II.2. Scope of the procurement**

**II.2.1. Total quantity or scope**

The requirement is for sufficient quantities for three (3) trains consisting of seven (7) cars for a trial. If trial is successful then award of quantities for a further sixty (60) trains. Spares will also be required.

Estimated value excluding VAT  
Range: between 1 and 3 200 000 GBP

**II.2.2. Information about options**

Options: yes  
Description of options: This is a contract for 3 trains with an option for a further 60 trains.

**II.2.3. Information about renewals**

This contract is subject to renewal: no

**II.3. Duration of the contract or time limit for completion**

Start 1.4.2016 Completion 31.3.2019

Information about lots

Lot No: 1

Lot title: Cabling and Connectors and Jumpers

**1) Short description**

Supply of Cabling and Connectors and Jumpers.

**2) CPV code(s)**

32581100 Data-transmission cable, 32581110 Data-transmission cable with multiple electrical conductors, 32581130 Data-transmission cable for special applications, 31224400 Connection cables, 31300000 Insulated wire and cable, 31321200 Low- and medium-voltage cable, 32421000 Network cabling, 32520000 Telecommunications cable and equipment, 31341000 Insulated cable reels, 31342000 Insulated cable junctions, 31343000 Insulated cable joints,

31344000 Insulated cable glands, 31350000 Electric conductors for data and control purposes , 31340000 Insulated cable accessories, 32572000 Communications cable, 32572100 Communications cable with multiple electrical conductors, 32572300 Communications cable for special applications, 44322200 Cable connectors, 44318000 Conductors, 44320000 Cable and related products, 44321000 Cable, 44322000 Cable accessories, 44322100 Cable conduits

**3) Quantity or scope**

Estimate sufficient for three (3) to sixty-three (63) trains 7 car units. Jumpers three hundred and twenty five (325) for 3 trains plus 60 trains. Spares also required.

Estimated value excluding VAT

Range: between 1 and 400 000 GBP

**4) Indication about different time frame or duration**

Start 1.4.2016 Completion 31.3.2019

Lot No: 2

Lot title: Switches (including layer 2 and layer 3)

**1) Short description**

Supply of Switches.

**2) CPV code(s)**

32421000 Network cabling, 32412000 Communications network, 32413100 Network routers, 32415000 Ethernet network, 32420000 Network equipment, 32422000 Network components, 32423000 Network hubs, 32424000 Network infrastructure, 32427000 Network system, 32570000 Communications equipment, 32581000 Data-communications equipment, 48219500 Switch or router software package

**3) Quantity or scope**

Estimated twenty seven (27) Layer 2 and six (6) Layer 3 for the 1<sup>st</sup> three (3) trains.

Dependent on price consideration may be given to procurement of all Layer 3. The follow on quantities shall cover an estimated 540 Layer 2 and 120 Layer 3 switches for the remaining 60 trains consisting of 7 cars per train. Spares will also be required.

Estimated value excluding VAT

Range: between 1 and 2 000 000 GBP

**4) Indication about different time frame or duration**

Start 1.4.2016 Completion 31.3.2019

Lot No: 3

Lot title: Wireless Equipment (including access points and antennae)

**1) Short description**

Supply of Wireless Equipment for the applications — communications from trains to ground and unit to unit bridge.

**2) CPV code(s)**

32418000 Radio network, 32422000 Network components, 32420000 Network equipment, 32412000 Communications network, 32424000 Network infrastructure, 32581000 Data-communications equipment

**3) Quantity or scope**

For the 3 trains this will comprise of 16 antennae train to ground, plus 8 antennae unit to unit bridge. We require 8 access points train to ground plus 8 access points unit to unit. It is

preferred that these are compatible and configurable to deliver dual functionality. Sufficient for 63 trains consisting of 7 cars per train.

Estimated value excluding VAT

Range: between 1 and 300 000 GBP

**4) Indication about different time frame or duration**

Start 1.4.2016 Completion 31.3.2019

Lot No: 4

Lot title: Kitting and Logistics

**1) Short description**

To make up kits for 60 of the 63 trains and provide storage and logistics services during the 3 year period of installation of the ethernet backbone on the trains. Materials for the 1<sup>st</sup> 3 trains will not be kitted. A trial kit will be produced during this time.

**2) CPV code(s)**

63120000 Storage and warehousing services, 63121000 Storage and retrieval services, 63121100 Storage services, 63122000 Warehousing services, 63711000 Support services for railway transport

**3) Quantity or scope**

60 kits for 60 trains consisting of 7 cars per train.

Estimated value excluding VAT

Range: between 1 and 200 000 GBP

**4) Indication about different time frame or duration**

Start 1.4.2016 Completion 31.3.2019

Lot No: 5

Lot title: Installation and Test of Hardware

**1) Short description**

Provision of Hardware Installation Services.

**2) CPV code(s)**

63711000 Support services for railway transport, 51611100 Hardware installation services, 51612000 Installation services of information-processing equipment, 34620000 Rolling stock, 45234124 Underground passenger railway transport

**3) Quantity or scope**

63 trains consisting of 7 cars per train.

Estimated value excluding VAT

Range: between 1 and 300 000 GBP

**Section III: Legal, economic, financial and technical information**

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**III.1. Conditions related to the contract**

**III.1.1. Deposits and guarantees required**

A parent company guarantee and/or performance bond may be required. Full details will be given in the Invitation to Tender documents.

**III.1.2.**

## **Main financing conditions and payment arrangements and/or reference to the relevant provisions governing them**

Payment will be in GBP Sterling and will be by means of electronic fund transfer.

### **III.1.3. Legal form to be taken by the group of economic operators to whom the contract is to be awarded**

No special legal form is required.

Tenderers are to include in their expression of interest as a minimum:

- Identity of tendering entity,
- Identify of prime/main contractor (if multi-tier),
- Company registration of tendering entity.

### **III.1.4. Contract performance conditions**

The performance of the contract is subject to particular conditions: yes

Description of particular conditions: The contract awarded may be based on any of the London Underground terms and conditions as set out in the Invitation to Tender (ITT).

## **III.2. Conditions for participation**

### **III.2.1. Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers**

List and brief description of conditions: Organisations wishing to be considered will be required to complete a pre-qualification questionnaire which will be made available to those submitting an expression of interest by the date stated in this Notice under Section IV.3.3)

Companies expressing interest in tendering will be required to submit, as a part of that expression, a declaration stating that the company (or each company in the case of a consortia) is not subject to any administration order and not subject to any proceedings or investigation in relation to compliance with the Bribery and Corruption Act (2010).

### **III.2.2. Economic and financial ability**

List and brief description of conditions: Full details will be given in the pre-qualification questionnaire. Amongst other criteria the supplier will be required to demonstrate including:

1. Their financial capability to deliver a contract/s of this magnitude;
2. That appropriate levels of insurance will be obtained (to be defined in the pre-qualification documents);
3. Statements of accounts for the past 3 years — in the case of consortia then all parties to that consortia will be required to submit accounts and other pre-qualification information.

### **III.2.3. Technical and professional ability**

List and brief description of conditions: Supply of materials for ethernet backbone for 63 Jubilee Line Trains, each consisting of 7 cars. Supply of material for the 1st 3 trains will determine the quantities and bill of materials. The programme does not contain time and resource available for obtaining LU-specific accreditation for non-compliant products with EN50155 Standards.

1. Products proposed must be EN50155 compliant including shock and vibration and passed relevant EMC testing;
2. Products must comply to 1-085 LU Standard Fire safety performance of materials;
3. LU Category 1 Standard S1180 Standard for Rolling Stock compliance for this equipment is EN50155 compliance;
4. All equipment shall be able to operate within temperature range T1 as per EN 50125-1:1999;
  - a. Ambient external air temperatures of - 25 °C to + 40 °C;
  - b. Inside vehicle compartment (Saloon or Cab) temperatures of - 25 °C to + 50 °C;

- c. Internal cubicle temperatures of - 25 °C to + 70 °C;
- 5. Sellers must demonstrate historic ability to supply goods offered within 4 to 6 week lead times;
- 6. Sellers must have previously supplied these products in the past to the Railway and have evidence they are Certified/Approved for the UK Underground Railway.

#### **III.2.4. Information about reserved contracts**

#### **III.3. Conditions specific to services contracts**

##### **III.3.1. Information about a particular profession**

##### **III.3.2. Information about staff responsible for the performance of the contract**

### **Section IV: Procedure**

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#### **IV.1. Type of procedure**

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

Negotiated

Some candidates have already been selected (if appropriate under certain types of negotiated procedures): no

#### **IV.2. Award criteria**

##### **IV.2.1. Award criteria**

The most economically advantageous tender in terms of the criteria stated in the specifications or in the invitation to tender or to negotiate

##### **IV.2.2. Information about electronic auction**

An electronic auction will be used: yes

Additional information about electronic auction: London Underground reserves the right to conduct an electronic auction on its Oracle eSourcing portal as part of the final negotiations.

#### **IV.3. Administrative information**

##### **IV.3.1. File reference number attributed by the contracting entity**

TfL-00421

##### **IV.3.2. Previous publication concerning this procedure**

###### **Periodic indicative notice**

Notice number in the OJ S: [2013/S 56-092574](#) of 20.3.2013

##### **IV.3.3. Conditions for obtaining specifications and additional documents**

(except for a DPS)

Time limit for receipt of requests for documents or for accessing documents: 23.11.2015 - 10:00

Payable documents: no

##### **IV.3.4. Time limit for receipt of tenders or requests to participate**

30.11.2015 - 10:00

##### **IV.3.5. Languages in which tenders or requests to participate may be submitted**

English.

#### **IV.3.6. Minimum time frame during which the tenderer must maintain the tender**

#### **IV.3.7. Conditions for opening of tenders**

### **Section VI: Complementary information**

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

This is a recurrent procurement: no

#### **VI.2. Information about European Union funds**

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

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

The process will be:

- Score and select as maximum number of bidders up to a total of 3 sellers per Lot i.e. 15 suppliers (sellers may proffer more than 1 product);
- Eliminate suppliers which fail;
- Invite successful PQQ suppliers in to present their products at a 'Show and Tell' including demonstration of seller's equipment placed on a train and bench test;
- Review evaluation weightings and Specification based on technology available to account for M.E.A.T;
- Final tender list;
- Issue ITT/RFQ on eSourcing;
- Score according to weightings and eliminate fails, based on 1-4-7 model;
- Assess samples of materials;
- Issue RFQ for BAFO for Lots 1-5;
- Lu may hold RFQ eAuction on Lots 1-5;
- CAR and Standstill Period;
- Award.

1. The contract resulting from this call for expressions of interest may be awarded by and may be for the benefit of London Underground Ltd and/or Transport for London or any of its subsidiaries.

2. The dates quoted in II.3) are estimated and may be subject to change.

3. Expressions of interest must be submitted by email and PQQ must be submitted on the LU Oracle e-Portal.

4. Participants submitting an expression of interest must complete a pre-qualification questionnaire by the dates in this Notice.

5. The contracting entity reserves the right to withdraw from the procurement process and/or not to award any contract as a result of this contract notice.

6. The contracting entity shall not be liable for any costs or expenses incurred by any candidate in considering and/or responding to this contract notice and the subsequent procurement process.

7. Details of selection criteria and specific number of companies to be selected will be provided with the pre-qualification documentation.

8. The UK government has announced its commitment to greater data transparency, accordingly London Underground reserves the right to publish its tender documents, contracts and data from invoices received. In so doing London Underground may at its absolute discretion take account of the exemptions that would be available under the Freedom of Information Act 2000 and Environmental Information Regulations 2004.

9. London Underground Limited reserves the right to disqualify any candidate which:

- a. Provides information or conformation which later prove to be untrue or incorrect; or
- b. Does not supply the information required by this notice; or
- c. Contravenes the criteria detailed in Regulation 26 of The Utilities Contracts Regulations 2006;
- d. Fails to inform TfL of any material changes that take place in their circumstances during or after PQQ submission that might affect our assessment of their suitability to tender.

**VI.4. Procedures for review**

**VI.4.1. Review body**

**VI.4.2. Review procedure**

**VI.4.3. Service from which information about the review procedure may be obtained**

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

30.10.2015