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Planning

## **London Underground Central Line Audible Alarm Unit - Design & Replacement of Combined Power Supply / Power-Amplifier Printed Circuit Board**

Transport for London

UK2: Preliminary market engagement notice - Procurement Act 2023 - [view information about notice types](#)

Notice identifier: 2025/S 000-056351

Procurement identifier (OCID): ocds-h6vhtk-0599c0

Published 12 September 2025, 4:41pm

### **Scope**

### **Reference**

WS2683802782

### **Description**

Scope

Description

The proposed tender is intended to secure LUL 92TS Central Line Audible Alarm Unit (AAU) - Design & Replacement of Combined Power Supply (PSU)/ Power-Amplifier Printed Circuit Board (PCB) updates required on the 1992 Tube Stock (92TS) Central Line of the Preliminary Market Engagement document.

Context:

TfL is exploring market interest and capability for remediation of 92TS Audible Alarm Units (AAU) by replacing the combined Power Supply Unit (PSU)/Power Amplifier Printed Circuit Board (PCB) inside each AAU, carrying out required factory and site testing, and returning fully functional AAUs for service. The AAU comprises two internal boards -

Combined PSU/Power-Amplifier PCB

Voice synthesis PCB

Failures have occurred exclusively on the Power Supply Unit (PSU)/Power-Amplifier PCB, which is no longer supported by the Original Engineering Manufacturer (OEM). Given the AAU's safety-critical function, trains cannot operate without it, making obsolescence remediation essential.

TfL intends to proceed in phases:

Phase 1 - Development of 2 prototype combined PSU/Power-Amplifier PCB units (PCB design validation, Final Acceptance Testing (FAT) and Site Acceptance Testing (SAT))

Phase 2 - Production of 18 units of combined PSU/Power-Amplifier PCB subject to prototype approval.

Phase 3 - Potential Future Demand (option) - up to 180 additional combined PSU/Power-Amplifier PCB units

Objective:

Identify suppliers with capability to design, replace, and test PSU/Power-Amplifier PCBs within existing AAU housings, while maintaining fit, form, and function equivalence.

Understand supplier approaches to obsolescence management, aiming for 15-20 years of ongoing support.

Assess capacity to deliver through a phased model: prototypes, batch production, and potential scaling.

Evaluate supplier test and assurance capability, including:

Final Acceptance Testing (FAT)

Site Acceptance Testing (SAT)

Compliance with RIA 12 and EN 50121-3-2 (EMC), and BS EN 61373 Cat 1, Class B (shock & vibration).

Gain insight into market best practice for low-volume, safety-critical electronics.

### **Total value (estimated)**

- £200,000 excluding VAT
- £220,000 including VAT

Below the relevant threshold

### **Contract dates (estimated)**

- 1 April 2026 to 31 March 2028
- 2 years

### **Main procurement category**

Goods

### **CPV classifications**

- 31720000 - Electromechanical equipment
- 35121700 - Alarm systems
- 50222000 - Repair and maintenance services of rolling stock
- 60210000 - Public transport services by railways

### **Contract locations**

- UKI - London

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## Engagement

### Engagement deadline

2 October 2025

### Engagement process description

Engagement process description

Please email [HaliseAkkaya@tfl.gov.uk](mailto:HaliseAkkaya@tfl.gov.uk) to request and complete the Preliminary Market Engagement Document.

Please answer all questions and send your completed questionnaire by email to the Procurement Manager, Halise Akkaya ( [HaliseAkkaya@tfl.gov.uk](mailto:HaliseAkkaya@tfl.gov.uk) ) before 17:00 GMT on 2nd October 2025. Late Responses will not be considered.

Non-responses to this expression of interest will be deemed as not interested. If bidders do not choose to participate in the Early Market Engagement process, this will not affect the ability to participate in the tender, if Expression of Interest to participate in the tender is received by the closing date.

Your answers will be treated as TfL restricted in accordance with TfL standard S1782. Information security classification. This means that your answers will only be visible to people authorised by TfL, typically only the TfL staff involved in the procurement.

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## Submission

### Publication date of tender notice (estimated)

2 October 2025

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## Procedure

### Special regime

Utilities

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## Contracting authority

### Transport for London

- Public Procurement Organisation Number: PHMT-6197-NWNZ

5 Endeavour Square

London

E20 1JN

United Kingdom

Email: [BSFAribaAdministration@tfl.gov.uk](mailto:BSFAribaAdministration@tfl.gov.uk)

Region: UKI41 - Hackney and Newham

Organisation type: Public authority - central government