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Tender

976595394 T1400 Demonstrating the visibility and illumination of rolling stock external lighting

Rail Safety Standards Board (RSSB)

UK4: Tender notice - Procurement Act 2023 - [view information about notice types](#)

Notice identifier: 2025/S 000-056671

Procurement identifier (OCID): ocids-h6vhtk-059a8f

Published 15 September 2025, 4:05pm

Scope

Reference

976595394 T1400

Description

RSSB seeks to procure research to:

- Provide insight on front-end lighting used on GB rolling stock; the assumptions made on their performance (both in term of visibility provided to the driver and warning to people on or near the line)
- Indicate the degree of warning provided (in terms of distance between an oncoming train and the viewer) by front-end lighting that is:
 - oCompliant with LOC&PAS (Rolling stock - Locomotive & Passenger) NTSN requirements
 - oInstalled on pre-TSI (Technical Specification for Interoperability) vehicles, including yellow front-ends

- Assess the variables that can degrade or drift and affect compliance with the requirements, and inspection or maintenance required to keep front-end lighting within limits
- Assess the feasibility and potential benefits of automated headlight switching, with or without the added functionality of Adaptive Driving Beam (ADB) headlight technology that is available on road vehicles

Successful delivery and implementation will:

- Provide industry with evidence on the actual warning provided by the lighting specifications and their impact on safety protocols and train operations. This is intended to inform RSSB Standards Project 22-006 (which is planned to be completed by December 2026). This is also intended to inform an update to RIS-3437-TOM Defective On-Train Equipment and Rule Book Module GERT8000-TW5 Defective or isolated vehicles and on-train equipment, by informing what arrangements remain safe when some external vehicle lighting becomes defective, but other lighting remains working.
- Identify the potential advantages and risks of adopting automated headlight switching, with or without ADB headlight technology, considering the need for industry co-ordination.

For more information about this opportunity, please visit the Delta eSourcing portal at:

<https://www.delta-esourcing.com/tenders/UK-UK-London:-Research-services./27TNAF8FGX>

To respond to this opportunity, please click here:

<https://www.delta-esourcing.com/respond/27TNAF8FGX>

Total value (estimated)

- £100,000 excluding VAT
- £120,000 including VAT

Below the relevant threshold

Contract dates (estimated)

- 24 November 2025 to 24 August 2026
- 9 months, 1 day

Main procurement category

Services

CPV classifications

- 73110000 - Research services

Contract locations

- UK - United Kingdom

Submission

Enquiry deadline

7 October 2025, 12:00pm

Tender submission deadline

13 October 2025, 12:00pm

Submission address and any special instructions

<https://www.delta-esourcing.com/>

Tenders may be submitted electronically

Yes

Award criteria

Name	Type	Weighting
W2 Tenderer's understanding and methodology [Max 4 pages]	Quality	25%
W3 Tenderer's experience and expertise [Max 4 pages, excluding CVs] in https://www.delta-esourcing.com/delta/project/buyer/editTenderNotice.html#dividual	Quality	25%
W4 Project management: Planning and engagement	Quality	20%
W6 Cost of project	Price	20%
W5 Project management: Risks and opportunities	Quality	10%

Procedure

Procedure type

Below threshold - open competition

Contracting authority

Rail Safety Standards Board (RSSB)

- Public Procurement Organisation Number: PVGN-9767-BLPT

25 Fenchurch Avenue,

London

EC3M 5AD

United Kingdom

Contact name: Procurement Team

Telephone: +44 2031425651

Email: Procurement@RSSB.co.uk

Region: UKI31 - Camden and City of London

Organisation type: Public undertaking (commercial organisation subject to public authority oversight)