OPEN TENDER

RSSB INVITATION TO TENDER FOR THE PROVISION OF: RSSB2749 - T1166 - Minimising the impact of ‘high and tight’ platforms on the overall PTI step/gap dimensions

Deadline: Thursday 31st January 2019

ITT Reference: RSSB2749 - T1166 - Minimising the impact of ‘high and tight’ platforms on the overall PTI step/gap dimensions

# TENDER DOCUMENTS

1.1 Tenders shall be submitted in accordance with the following instructions. It is important that all the information requested is provided in the format and order specified. If the Tenderer does not provide all of the information RSSB has requested within the tender pack, RSSB may reject the tender as non-compliant.

1.2 Tenderers must obtain for themselves, at their own responsibility and expense, all information necessary for the preparation of their tender. Tenderers are solely responsible for any costs and expenses in connection with the preparation and submission of their Tender, and all other stages of the selection and evaluation process. Under no circumstances will RSSB, or its advisors, be liable for any costs or expenses Tenderers, their sub-contractors, suppliers or advisors incur in this process, including if this tendering process is terminated or amended by RSSB.

1.3 Tenderers are solely responsible for obtaining the information that they consider is necessary in order to prepare the content of their tender and to undertake any investigations they consider necessary in order to verify any information RSSB provides during the procurement process.

1.4 All pages of the tender submission must be sequentially numbered (including any forms to be completed and returned).

1.5 All specifications, plans, drawings, samples and patterns and anything else that RSSB issues in connection with this ITT, remains the property of RSSB and are to be used solely for the purpose of tendering.

1.6 At any time prior to the deadline for receipt of questions, RSSB may modify the tender documents by amendments in writing.

1.7 RSSB (at its sole discretion) may extend the deadline for receipt of Tenders.

RSSB reserves the right to modify or to discontinue the whole of, or any part of, this tendering process at any time and accepts no obligation whatsoever to award a contract.

# GENERAL, LEGAL & COMPLIANCE

2.1 RSSB will check each tender for completeness and compliance with the tender instructions. RSSB reserves the right to reject any tenders it considers substantially incomplete, or non-compliant (each tender will be assessed on its own merit, according to the level/importance of omitted or non-compliant content).

2.2The Tenderer will be excluded should any of the grounds for mandatory rejection or discretionary rejection be triggered. Mandatory requirements can be viewed within the Public Contracts Regulations 2015.

2.3 Tenderers are required to confirm in their tender response, they are able to meet all mandatory and discretionary requirements.

2.4 The Tenderer will be excluded should it be assessed that it has a high risk of:

* + Insolvency over the lifetime of the contract; e.g. the Tenderer may be excluded if its current assets to current liabilities ratio is less than 1;
	+ Insufficient financial capacity to deliver the services effectively; or
	+ Over-dependence on RSSB (e.g. the Tenderer may be excluded if its turnover is less than £ [no more than2x the contract value]

# 3.0 TENDER INSTRUCTIONS

3.1 “RSSB” means the contracting authority, seeking to invite suppliers to participate in the procurement process.

“You” or “Supplier” means the legal entity completing these questions, seeking to be invited to the next step of the procurement process Invitation to Tender (ITT)

3.2 Please ensure all questions are completed in full and in the format requested. Failure to do so may result in your submission being disqualified. If the question does not apply you need to clearly state N/A.

3.3 If it is necessary for you to provide additional information this should be provided as an appendix and clearly referenced as part of your declaration.

3.4 **RSSB REPRESENTATIVE**

Your main point of contact is: shareditt@rssb.co.uk

**RSSB OVERVIEW**

If you wish to find out more about RSSB, please visit our website at [www.rssb.co.uk](http://www.rssb.co.uk)

**Timetable**

The timetable for this procurement follows. This is intended as a guide and whilst RSSB does not intend to depart from the timetable, it reserves the right to do so at any stage.

The expected milestones are set out below:

|  |  |
| --- | --- |
|  | **Start Date** |
| Supplier engagement meeting | 20 November 2018 |
| I.T.T issued | W/C 2 JAN 2019 |
| Supplier clarification questions deadline  | 21 JAN 2019; 17:00 hours |
| **Deadline for Submitting Tenders** | **31 JAN 2019; 17:00 hours** |
| Post Tender Clarification & Evaluation  | W/C 4 FEB 2019 |
| Estimated notification of award decision | W/C 11 FEB 2019  |
| Target contract commencement date | W/C 21 FEB 2019 |

Note: RSSB reserves the right to amend these dates as business requirements demand and will communicate any changes to tenderers.

3.5 **QUESTIONS**

Should you have any questions relating to the project, please email these before the deadlines detailed in the project timeline above to ensure that these questions can be effectively addressed? To ensure equal and fair treatment to all potential suppliers, RSSB will circulate all questions and responses anonymously.

Questions should be emailed to: shareditt@rssb.co.uk

# 4.0 Evaluation Information

4.1 In the interests of an open, fair and transparent assessment, this document sets out how RSSB intends to evaluate tender responses. It outlines the evaluation criteria and respective weightings, as well as the evaluation methodology to be applied.

4.2 **Verification of Information Provided**

 Whilst reserving the right to request information at any time throughout the procurement process. RSSB may enable the Supplier to self- certify that there are no mandatory/ discretionary grounds for excluding their organisation. When requesting evidence that the supplier can meet the specified questions relating to Technical and Professional Ability RSSB may only obtain such evidence after the final tender evaluation decision and only from the winning Supplier only.

4.3 **Please self-certify whether you already have, or can commit to obtain, prior to the commencement of the contract, the levels of insurance cover indicated below:**

* Employer’s (Compulsory) Liability Insurance = £2M
* Public Liability Insurance = £1M
* Professional Indemnity Insurance = £1M

4.4 **Sub- contracting Arrangements**

 Where the Supplier proposes to use one or more sub- contractors to deliver some or all of the contract requirements, a separate Appendix should be used to provide details of the proposed delivery model that includes members of the supply chain and percentage of work being delivered by each sub -contractor and the key deliverables that each sub- contractor will be responsible for.

RSSB recognises that sub- contracting arrangements may be subject to change and not finalised until a later date. However, Suppliers should be aware that where information provided to RSSB indicates that sub- contractors are to play a significant role in delivering the key requirements and any changes to those sub- contracting arrangements significantly affect the ability of the supplier to deliver key requirements the Supplier should notify RSSB immediately of any changes in the proposed supplier sub-contractor arrangements. RSSB reserves the right to deselect the Supplier prior to any award of contract based on an assessment of the updated information.

4.5 **Consortia Arrangement**

 If the Supplier completing this tender submission is doing so as part of a proposed consortium the following information must be provided:

* Names of all consortium members;
* The lead member of the consortium who will be contractually responsible for delivery of the contract (if a separate legal entity is not being created); and
* If the consortium is proposing to form a legal entity, full details of the proposal should be submitted as an Appendix with this Tender.
* RSSB may require the consortium to assume a specific legal form if awarded the contract. If it is deemed that a legal incorporation is necessary for the satisfactory performance of the contract.
* All members of the consortium will be required to provide the information required in all sections of the Tender as part of a single composite response to RSSB i.e. each member of the consortium is required to contribute to completing the response document.

4.6 **Confidentiality**

 RSSB reserves the right to contact the named customer contact and the nominated customer does not owe RSSB any duty of care or have any legal liability, except for any deceitful or maliciously false statements of fact.

 RSSB confirms that it will keep confidential and will not disclose to any third parties for any information obtained from the named customer contact, other than to the Crown Commercial Services and or contracting authorities defined by the Public Contract Regulations.

# 5.0 Evaluation Process

5.1 The process that will be used to select an appropriate Tenderer and award the contract for this procurement is available in more detail in the Evaluation Criteria.

The open procedure is a single stage process.

5.2 **Marking for Award Criteria**

An evaluation panel consisting of representatives of key stakeholders within RSSB will carry out the evaluation. The procurement team will only act as moderator during the assessment phases of the evaluation.

Each evaluation area is weighted to show the relative importance significance of the criteria specific area’s for assessment.

# 6.0 PROCESS AND PREPARATION OF RESPONSES

6.1 The Supplier shall not enter in any agreement or arrangement with any third party which would in any way cause RSSB or its members to incur any financial obligations to the Supplier or any third party.

6.2 The Supplier shall not approach any Customer employee, the Customer’s Representative or its agents to discuss any aspects of the Tender. All communication should be conducted via the Customers Representative.

6.3 The Supplier shall not canvass support for the award of the contract by approaching any employee of RSSB, its Representative or its agents.

6.4 The documents as enclosed are to be accepted in their entirety. No alteration Representative before the date stated for the receipt of tenders. If any alteration is made or these instructions to Suppliers are not fully complied with the tender may be invalidated.

6.5 The conditions of contract included in this Invitation to tender apply. The Suppliers standard terms of business or trade will not be accepted.

6.6 Any requested changes to the conditions of contract must be detailed on the Contract Issues Memo document included for consideration. If this is not completed, it is assumed that the Supplier has accepted all terms and conditions detailed and no further changes will be accepted.

6.7 The Supplier shall be deemed to have satisfied itself as to the nature, extent and the content of the goods, services or works to be provided, the extent of staff required and all other matters, which may affect the tender.

6.8 All prices quoted to be GBP (unless otherwise requested in the Invitation to Tender) exclusive Value Added Tax and firm.

 It is the Suppliers responsibility to ensure the tender is correct at the time of submission. No amendment to the tender will be allowed after the due date.

6.9 Any questions must be emailed to the main point of contact no less than five days before the return date. Note: questions/responses will be circulated anonymously to all Suppliers invited to tender. Tenders received after the closing date and time will not be considered.

6.10 The Customers Representative reserves the right to correct any omissions or inaccuracies in the Invitation to Tender and to clarify and/or amend any of the Customers’ requirements, up to seven days before the return of tenders.

6.11 All information supplied by RSSB must be treated in confidence and not disclosed to third parties except insofar as this is necessary to obtain sureties or tenders required during the preparation of the Tender. All information provided by Suppliers will be treated in confidence except in stances where references may be sought.

6.12 RSSB reserves the right to cancel this Tender at any point and any cost incurred in the preparation of this Tender is at the Bidder’s expense.

6.13 Tenders must remain open for acceptance for a period of 180 calendar days from the submission date.

6.14 The tenderer should include the following information as part of their tender response:

Legal entity name of Tenderer

|  |
| --- |
|  |

Contact person's name, email address, telephone number and postal address for enquiries relating to this procurement

|  |
| --- |
| Name: |
| Postal address: |
| Telephone number: |
| Email address: |

Tenderer’s registered address

|  |
| --- |
|  |

Tenderer’s website address (if available)

|  |
| --- |
|  |

Please tick the box for the legal form of the Tenderer

|  |
| --- |
| * Sole Trader [ ]
* Partnership [ ]
* Limited Liability Partnership [ ]
* Private Limited Company [ ]
* Public Limited Company [ ]
* Local Council [ ]
* Voluntary/ charitable/ not for profit organisation [ ]
* Other (please specify below) [ ]
 |

If ‘Other’ has been selected from the question above please provide details.

|  |
| --- |
|  |

If your business is a registered company, charity or any other registered organisation (including limited, non-limited or Industrial and Provident Society), please state your registration number. This must be the registration number of the Tenderer, providing the country and date of incorporation / registration if other than the UK.

|  |
| --- |
|  |

Name of ultimate parent company (if this applies)

|  |
| --- |
|  |

Companies House Registration number of ultimate parent company (if this applies)

|  |
| --- |
|  |

**Additional Notes**

* Fully answer the question given and consider the weighting for the section
* Explain how you will meet the criteria and provide evidence to support your response.
* Further reading on how to complete the tender is available in section 10

# 7.0 TENDER EVALUATION (SELECTION CRITERIA)

|  |  |  |
| --- | --- | --- |
| **Heading** | **Specific question(s)** | **Evaluation Criteria** |
| S1 Experience of the supplier in projects that impact the step / gap position. [Max 1 page] | Provide a short description of **two projects** delivered by the supplier related to the step / gap position at the PTI, delivered within the last **three years**.Provide a short explanation of why the project is relevant to our needs.  | Pass: The tenderer provides a short description of two projects delivered by the supplier related to the step/gap position at the PTI, delivered within the last three years. The supplier must provide dates in respect of the projects. Further the tenderer provides a short explanation of why the projects is relevant to RSSB’s needs. Additionally, through the previous this provides RSSB with a strong degree of confidence in its experience in projects that impact the step / gap position at the PTI. Fail: The tenderer either fails to provide evidence of two projects delivered by the supplier related to the step/gap position at the PTI, delivered within the last three years, or fails to provide the dates in relation to the projects, or fails to provide a short explanation as to why the projects referenced are relevant to RSSB’s needs or fails to provide RSSB with sufficient confidence in its experience of delivering projects that impact the step / gap position at the PTI. Note: If a tenderer is given a “Fail” score here the tenderer’s bid/submission will not be evaluated beyond this point. |
| S2 Experience of carrying out a WebTAG compliant economic appraisal. [Max 1 page] | Provide a short description of **two projects** that demonstrates the supplier’s ability to carry out WebTAG compliant economic appraisal, delivered to clients within the last **three years**.Provide a short explanation of why they are relevant to our needs. | Pass: The tenderer provides RSSB with a short description of at least two projects that demonstrates the tenderers ability to carry out WebTAG compliant economic appraisals, delivered within the last three years. The supplier must provide dates in respect of the projects referenced. Further the tenderer provides a short explanation as to why the projects are relevant to RSSB’s needs. Additionally through the above this provides RSSB with a strong degree of confidence in its experience in projects that demonstrates their ability to carry out WebTAG compliant economic appraisal. Fail: The tenderer either fails to provide a short description of two projects that demonstrates the tenderers ability to carry out WebTAG compliant economic appraisals, delivered within the last three years or fails to provide the dates in relation to the referenced projects or fails to provide a short explanation as to why these are relevant to RSSB’s needs or fails to provide RSSB with sufficient confidence in its experience of delivering projects that demonstrates their ability to carry out WebTAG compliant economic appraisal. Note: If a tenderer is given a “Fail” score here the tenderer’s bid/submission will not be evaluated beyond this point. |
| S3 Strengths and key points of proposal[Max 1 page] | Provide a summary of the strengths and key points of the proposal | Pass: The tenderer provides RSSB with a 1-page summary of the strengths and key points of their proposalFail: The tenderer does not provide RSSB with a 1-page summary of the strengths and key points of their proposalNote: If a tenderer is given a “Fail” score here the tenderer’s bid/submission will not be evaluated beyond this point. |

# 8.0 TENDER EVALUATION (AWARD CRITERIA)

8.1 **ITT Assessment**

**The Contract Award decision is solely based on the basis of Tenderer proposal and price offering.**

8.2 RSSB uses the following quality / price ratio to determine the outcome of the evaluation where quality (technical evaluation) and price are weighted and scored individually before being combined.

 Quality 80%: Price 20%

8.3 Technical criteria are weighted and scored as a percentage of the maximum score available with a minimum quality threshold set.

 **Technical Evaluation**

8.4 Tenders are assessed on how well they satisfy the technical evaluation criteria.

 The relative importance of each criterion is established by giving it a percentage weighting so that all the weightings equal 100%. The Evaluation Matrix provides details of the weightings that RSSB will use in assessing Tenderer proposals.

 The Technical Evaluation will be carried out using Tenderer responses to the tender specification using the scoring scheme (identified in Table below).

8.5 The scored responses are generally assessed out of a maximum of five (5). The Evaluation Panel will not be allowed to give partial scores (for example 3.5); however, once all scores are aggregated, the technical scores will be rounded to two decimal places prior to consolidating with the price evaluation.

8.6 The following shall constitute a failure to evidence satisfactory delivery of the requirement(s) of the procurement and will automatically disqualify the Tenderer:

1. A grade of zero (0) in any of the evaluated technical/quality questions in Section D of Schedule One (a) of Part B of the ITT before the weightings are applied; or
2. a grade of one (1) in more than one of the evaluated technical/quality questions in Section D of Schedule One (a) of Part B of the ITT before the weightings are applied

8.7 Those Tender Responses which fail to demonstrate satisfactory delivery of the requirement(s) of the procurement by reason of failing to achieve these minimum thresholds will be set aside and not considered further.

|  |  |
| --- | --- |
| **Grade** | **Definition of grade** |
| 5 | A wholly excellent Tender Response that (where applicable):* Addresses all aspects of the question in an informed and comprehensive manner;
* Demonstrates a thorough understanding of what is being asked for;
* Provides evidence of how that understanding can be applied in practice;
* Offers full confidence that the Tenderer will deliver the service in full;
* Addresses the majority of areas of doubt and uncertainty; and
* Provides certain, unambiguous commitments or statements of intent that permit reliance through translation into contractual terms
 |
| 4 | * A good Tender Response that (where applicable):
* Addresses all aspects of the question and is generally of a good standard;
* Demonstrates a good understanding of what is being asked for;
* Provides a worked-up methodical approach;
* Offers confidence that the Tenderer will deliver the service in full with limited areas of doubt or uncertainty;
* Addresses key areas of doubt and uncertainty; and
* Provides commitments that can be translated well into contractual terms
 |
| 3 | A satisfactory Tender Response that (where applicable):* Addresses the majority of the question and is generally of a good standard but lacks substance or detail in some areas;
* Demonstrates an understanding of what is being asked for;
* Provides a satisfactory approach;
* Offers a general level of confidence that the Tenderer will deliver the service (but with room for doubt in some areas);
* Address some areas of doubt and uncertainty; and
* Provides some commitments that can be translated well into contractual terms.
 |
| 2 | A Tender Response that (where applicable):* Addresses some of the question but *either* lacks relevant information and detail *or* lacks substance in a manner that would suggest the response is a “model answer”;
* Demonstrates some understanding but with a lack of clarity in key areas;
* Provides an approach which is not wholly appropriate or viable orlacks evidence;
* Shows that the level of confidence that the supplier can deliver does not outweigh the doubt;
* Does not address many areas of doubt and uncertainty; and
* Does not offer sufficient commitment (with doubt as to the extent to which would translate into contractual terms)
 |
| 1 | A generally unsatisfactory Tenderer response that (where applicable):* Does not address the question or has omissions;
* Lacks understanding in significant areas:
* Provides an approach which has gaps or creates concerns;
* Shows that the level of confidence that the supplier can deliver is low;
* Creates uncertainty; and
* Displays significant lack of commitment (with doubt as to the extent to which would translate into contractual terms)
 |
| 0 | A wholly unsatisfactory Tenderer response that (where applicable):* Provides no response or omissions/oversights that prevent scoring;
* Refuses to deliver the requirement; and
* Creates concerns so significant that the response would be detrimental to the interests of RSSB
 |

#  9.0 ITT Evaluation Matrix (Award Criteria)

|  |  |  |  |
| --- | --- | --- | --- |
| **Heading** | **Specific question(s)** | **Evaluation Criteria** | **Weight**  |
| A1 Robust methodology and ability to apply it to client’s needs. [Max 4 pages]  | The tenderer provides a method statement of how it is intended to deliver against all aspects of the work package objectives and scope of this work. * What is the methodology the supplier intends to undertake to meet the objectives and scope of this work?
* How will the supplier identify potential track, train, platform solutions that might minimise the adverse impact of high and tight platforms?
* How will the supplier identify appropriate case study locations and undertake the platform site visits?
* How will the supplier undertake the economic assessment to identify solutions that bring the best cost-effective balance for the wider network?
* How will the supplier develop the implementation strategy and support the industry adoption of the findings?
 | The Tenderer’s response:* Demonstrates their understanding of the objectives and provide a coherent and systematic approach to meeting all the objectives
* Proposes a sound, impartial and robust methodology
* Identifies how the desk-based review, case studies, and economic assessment will be undertaken
* Identifies how a robust implementation strategy will be developed and supported by the supplier
 | 30% |
| A2 Knowledge and expertise in subject area [Max 4 pages] | The tenderer details the knowledge and expertise of the team who will be undertaking this work, and demonstrate their relevance and value for this project. * What expertise does the supplier have in rail infrastructure and rolling stock engineering?
* What expertise does the supplier have in economic appraisals?
* What expertise does the supplier have in Station Operations, including PTI risk and dwell time management?
* What knowledge does the supplier have of Gauging analysis?
 | The Tenderer’s response includes:* Evidence of their knowledge and expertise in the subject area
* Describes how they will apply their knowledge, expertise, and technical competence to deliver the objectives of this research
* Evidence of their technical competence in rail infrastructure and rolling stock engineering, economic appraisals, station operations, and gauging analysis
* Evidence of their understanding of gauging issues and whole system impact of stepping distances
 | 20% |
| A3 Project Delivery and resources[Max 3 pages] | The tenderer demonstrates sound resourcing and planning to successfully deliver this work. * How will adequate allocation of appropriate resources be made against each deliverable?
* How will the team ensure the quality and the content of the deliverables are fit for purpose?
* What is the schedule that each task will be delivered against?
* How will the tenderer manage and engage multiple stakeholders during project including RSSB, project steering group, and for the platform site visits?
 | The tenderer’s response:* Appropriately allocates resources to each activity based on effort and skills required.
* Provides a credible plan for delivering successful outcomes to time and quality.
* Provides a well thought out and appropriate communication plan for communication between the tenderer and key stakeholders, to ensure the quality and content of the work is fit for purpose
 | 20% |
| A4 Risks and opportunities[Max 2 pages]  | The tenderer details what risks and opportunities are foreseen in the delivery of the project. The tenderer should detail mitigating actions in relation to the risks identified, and how opportunities can be maximised.* What are the potential risks to this project? How will these risks be managed and mitigated?
* What are the potential opportunities that could be maximised during the delivery of this work?
 | The tenderer’s response:* Identifies appropriate risks and opportunities through the use of a risk register.
* Identifies what mitigation actions will be taken with specific regard to each risk or challenge identified.
* Identifies approaches to exploit the opportunities identified.
 | 10% |
| A5 Cost of project | Provide a fixed cost for the project and the associated cost break down. Describe how and why this represents value for money. | * The tender with the lowest total cost will receive 100% of the available weighted score (20%).

Other Tenderer’s tenders will receive a pro-rated relative to the lowest cost according to the following formula:Score of other tender = lowest tender total cost / other tender total cost x 100%. | 20% |

# 10.0 PRICE EVALUATION

10.1 All prices quoted shall be in sterling (unless otherwise requested in the Tender Documents), exclusive of Value Added Tax and shall be firm.

10.2 A full and comprehensive breakdown of all costs and expenses to provide the goods, services or works requested in this invitation to tender must be provided and all assumptions must be clearly stated.

10.3 Failure to provide adequate detail may cause your tender to be judged non-compliant.

10.4 The construction of the price must be clear and easy to understand. Where appropriate the use of tables to show pricing is preferred. We require the following information:

* + - A breakdown by grade and named individual, indicating the number of days to be worked on each task and the daily rate to be charged.
		- A list of sub-contracts with prices and copies of quotations where available (a similar breakdown by grade, named individuals and rates, as above, is required where the sub-contract is for manpower).
		- Details of any other costs, such as hire charges for equipment.
		- Details of travel and subsistence and all expenses to be incurred. Mileage reclaim will be linked to maximum levels set by HMRC.
		- The above breakdowns should be further broken down into individual work packages.

# 11.0 TENDER EVALUATION CRITERIA AND MINIMUM REQUIREMENTS

11.1 In evaluating tenders, the most economically advantageous tender(s) will be sought. This will be using the evaluation criteria and weightings detailed in **ITT Evaluation Matrix** **Award Criteria**.

11.2 The evaluation criteria detail the minimum requirements. Therefore, any tender which cannot demonstrate that it meets any of the minimum requirements will not be marked and will automatically score zero.

Tenderers are advised to carefully consider the attached specifications, ask clarification questions to ensure these are understood.

# 12.0 CONDITIONS OF CONTRACT

The terms and conditions of the contract are contained with a separate document.

**Qualification of the Contract**

Where Tenderers have any queries or concerns with any specific condition of the terms and conditions of the contract, these should be submitted in writing to **shareditt@rssb.co.uk** as soon as possible, and in any case no later than 10 days prior to the deadline for submission of tenders.  Please ensure the specific condition(s) and proposed amendment(s) are provided.  These will be reviewed by RSSB on a case by case basis, and, if accepted, revised terms and conditions will be issued to all Tenderers.  Failure to accept the terms and conditions of the contract or to qualify the tender in any way, may result in the tender being rejected by RSSB.

## 13.0 RSSB Company Information

 ***Insert Work Package Title*Introduction**

RSSB was established in April 2003. The Company’s primary objective is to facilitate the railway industry’s work to achieve continuous improvement in the health and safety performance of the railways in Great Britain, and thus to facilitate the reduction of risk to passengers, employees and the affected public. The railway is a complex system with multiple interfaces delivered by many different organisations. At RSSB we bring these different organisations together to make collective decisions. We help the rail industry carry out research, understand risk, set standards and improve performance. We provide a constant point of reference in a changing environment.

We support rail in the areas of safety standards, knowledge and innovation and a wide range of cross- industry schemes requiring our knowledge and independence. Our work involves close collaboration, but as technical experts we also appoint suppliers in the wider market to provide an informed view.

**Key elements of the company’s remit are to:**

* Manage Railway Group Standards on behalf of the industry
* Lead the development of long-term safety strategy for the industry, including the publication of annual Railway Strategic Safety Plans
* Propose change through facilitation of the research and development programme, education and awareness
* Measure, report and inform on health and safety performance, safety intelligence, trends, data and risk
* Support cross-industry groups in national programmes which address major areas of safety concern
* Facilitate the effective representation of the UK rail industry in the development of European legislation and standards that impact on the rail system

RSSB is a not-for-profit company owned by major industry stakeholders. The company is limited by guarantee and is governed by its members, a board and an advisory committee. It is independent of any single railway company and of their commercial interests.

**Specification for research project**

T1166 - Minimising the impact of ‘high and tight’ platforms on the overall PTI step/gap dimensions

# Background

Following rolling stock cascades and new vehicle introductions in recent years, a larger step / gap distance is becoming apparent due to footsteps on new stock being further away than on the older stock. This is believed to be the result, and adverse impact from a very small minority of platforms that are high and/or close to the track position, forcing rolling stock design and modifications to accommodate these platforms. New rolling stock, cascades and refurbishment of existing stock, are being modified to cope with the worst case ‘high and tight’ platforms for gauge clearance. For example, raising the vehicle body and / or reducing the size of the footstep to achieve clearance at high and tight platforms. However, such modifications may create a worse step gap position at the majority of other GB platforms, and may consequently, exacerbate PTI risks and increase dwell time.

Target platform ranges for new or modified platforms are: offset (lateral) 730 to 745mm and vertical 890 to 915 mm (Railway Group Standard GIRT7020, RSSB, 2018). Previous research (T866 - Investigation of platform edge positions on the GB network) examined every platform on the GB network to determine the platform offset (horizontal) and height (vertical) positions, using the January 2011 National Gauging Database. The findings of the research were based on a total of 132,024 measured platform profiles for a total of 5,671 platforms. From the data, 18 platforms had an average height of greater than 1000 mm, which was considered to have a disproportionate effect on the stepping distances elsewhere because vehicle footsteps are being specified to provide a clearance to the 'high' platforms. Recently, further analysis of data from T866 showed that of the average position for GB platforms, 6% were considered 'high' (>950mm) and 19% tight (<730mm)[[1]](#footnote-1). However, a clear definition of a high and tight platform remains to be established, and it is those that are both high and tight that are believed to be having the most significant impact.

The impact of high and tight platforms adversely affecting the step gap position at many other platforms is believed to increase the risk to passengers in the higher consequence falls from the platform (often not boarding or alighting)[[2]](#footnote-2). Passengers with limited mobility and those carrying luggage or with prams are believed to be particularly at risk. Notably, the RSSB 2017/18 Safety Performance Report identified that the overall level of physical harm at the PTI has increased by 7% over the past year, and the fatalities and weighted injuries (FWI) for platform edge incidents (not boarding/alighting) was 5.6. PTI incidents that occur as a consequence of the adverse impact of high and tight platforms are assumed to be a proportion of this value. There is also an impact to passenger satisfaction, with recent scores indicating 63% of passengers rated were satisfied with the step or gap between the train and the platform (Transport Focus, 2018)[[3]](#footnote-3).

Accordingly, with the current impact of high and tight platforms being unclear, particularly following rolling stock cascades in recent years, the approach for addressing high and tight platforms needs investigating. Cost-effective solutions need to be established and evaluated to reduce the adverse impact of high and tight platforms, including an understanding of what approach would bring the best economic benefit to wider industry.

This research is supported by the industry group People on Trains and Stations Risk Group (PTSRG), and the Vehicle Structures Systems Interface Committee. Outputs from T1166 are expected to support the PTI strategy[[4]](#footnote-4) and the Leading Health and safety on Britain’s Railway strategy, including priorities of Station Operations (station development and re-development), workforce health and wellbeing and workforce assaults and trauma[[5]](#footnote-5).

# Work package objectives

The purpose of T1166 is to investigate high, tight, and high and tight platforms, to identify the extent in which these platforms are adversely impacting rolling stock modifications and the step / gap position at other locations. The research should select appropriate case study locations of high and tight platforms, to identify and understand the range of challenges and potential solutions required to minimise the adverse effect.

Potential challenges and solutions are believed to depend on the platform configuration (e.g. height, offset, radius, curvature, cant, speed). **Therefore, the research should focus on the platforms that are believed to most significantly impact rolling stock modifications and the wider network,** and include a suitable range of approaches to mitigate the impact.

The objectives for this work are:

* Confirm the current locations of high, tight, and high and tight platforms that are adversely impacting rolling stock design, modifications and making the step gap worse at the majority of other platforms
* Identify the underlying factors causing the adverse impact of high and tight platforms, and the possible solutions that may reduce the adverse impact of high and tight platforms
* Undertake an economic assessment to determine the cost-effectiveness of possible solutions reducing the adverse impact of high and tight platforms, and bring the best wider economic benefits to industry
* Develop a toolkit of options to minimise the adverse impact of high and tight platforms. This should include possible quick wins and transitions to long-term solutions.

# Scope

|  |  |
| --- | --- |
| **In scope**  | **Out of scope** |
| * Desk-based review and analysis including:
	+ Analysis of gauging data in line with RIS-7016-INS, including the consideration of cant, radius, and speed parameters, and route geography
	+ Analysis of data / information on rolling stock introduction and cascades, PTI incidents and station dwell[[6]](#footnote-6)
	+ Relevant previous research (e.g. T866, T1037, COF-PTI-03, T1054) and other documents, to identify appropriate engineering, track, technology, platform materials, practices and solutions
	+ Consideration of relevant station, track and rolling stock requirements for possible modifications
* Define a scale that identifies the proportionate adverse impact of high and tight platforms
* Define a classification criterion for selecting appropriate locations to undertake case studies of high and tight platforms
* Confirm the current locations of high and tight platforms and identify appropriate case study sites
* Site visits at selected high and tight platforms and identify the features and related constraints to a confirming platform edge position (e.g. level crossings, buildings, bridges, lifts, escalators, electrical wires, track geometry, platform use, etc.)
* Minimum of 4 case studies that cover a representative range of situations to high, tight and high and tight platforms, and the approaches that can be made to mitigating these issues
* WebTAG compliant economic appraisal
* Identify cost-effective opportunities and solutions to reduce the adverse impact of high and tight platforms, including adjustments and modifications to combinations of platform, track and rolling stock etc
* Propose possible mitigation strategies if potential solutions may result in making the step / gap position worse at high and tight platforms
* Impact of high and tight platforms on dwell time and PTI management, and how possible solutions may improve these
* Implementation approaches, including planned platform/station upgrades, new rolling stock, stock cascades and modifications
 | * Testing of solutions and/or modifications to platforms, track, or rolling stock
* Solutions that are not transferable to GB rail
* Survey of platforms not high and/or tight
* Survey measurements that require access to the track, PTS qualification, or a possession to obtain measurements
 |

The desk-based review and analysis will inform the selection of appropriate case studies for the project, including the high and tight platform locations to undertake site visits. Suppliers are expected to demonstrate how the case studies cover a comprehensive and representative range of situations of high, tight, and high and tight platforms, and the approaches that can be made to mitigating these issues. This must include platforms that are adversely impacting rolling stock cascades and the wider network. **A minimum of 4 case studies are expected**, and suppliers are welcome to recommend a higher number to best meet the requirements of the project.

Proposed sites will need to be supported and agreed by the project steering group and by the applicable SFO and Network Rail route. **It is expected that the case study site selection will be agreed during project delivery, and any proposed locations included in the bid are subject to change depending on agreed access to platform locations.**

The winning supplier will be provided data from the National Gauge Database to undertake the analysis work required to identify case study sites. This information is to be used for the sole purpose of this project and shall not be disseminated into the public domain or used for any other tenders whereby using the data gives a commercial advantage. Sample data can be found in Appendix A.

# Methodology

Suppliers are expected to explain the methodology that they are intending to use to successfully meet the project objectives and cover the scope. Within that methodology there should be:

1. Desk based review and analysis
2. Case studies of high and tight platforms, including site visits
3. Economic assessment
4. Implementation approaches

# Deliverables

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |

|  |  |
| --- | --- |
| **Deliverable Name** | **Type** |
| Desk-based review and analysis  | Report |
| This report presents the findings from the desk-based review and analysis, including:* A sliding scale identifying the proportionate adverse impact of high and tight platforms
* An update and current position on high and tight platforms and the adverse impact on rolling stock cascades and the wider network
* The impact of high and tight platforms on the wider network, including the PTI risk and impact on dwell performance
* Possible track, train and platform solutions that may reduce the adverse impact of high and tight platforms

This deliverable should be accepted by the project steering group and a summary presented to PTSRG. The report will be produced in the RSSB template and will be made widely available. |

|  |  |
| --- | --- |
| **Deliverable Name** | **Type** |
| Selected case studies of high and tight platforms  | Report  |
| This report presents the findings from the selected case studies, and should include detail on: * The classification criterion for selecting appropriate case study sites
* The high and tight platform site visits, including common constraints, challenges, opportunities and potential solutions across the cases
* Minimum of 4 case studies that cover a representative range of situations
* The extent in which selected locations adversely impact the wider network and rolling stock modification
* Implications and recommendations for other platforms
* Mitigation strategies and solutions

This deliverable should be accepted by the project steering group and a summary presented to PTSRG. The report will be produced in the RSSB template and will be made widely available. |

|  |  |
| --- | --- |
| **Deliverable Name** | **Type** |
| Final Report on options and their implementation | Report |
| This report presents the options, their economic performance and their implementation strategy. It is important to make this report easy to use as a ‘toolkit of options’ for implementation with information on how to choose amongst the different options, and steps for their introduction and adoption, and include detail on:* Indicator of the benefits (including tangible benefits) that could be realised through industry adoption of the outputs
* Recommendations for overcoming implementation challenges and barriers, and the potential opportunities that might enable doing so
* Guidance and recommendations on each transition step to realise end benefits
* The consideration of planned platform/station upgrades, new rolling stock, stock cascades and modifications

This deliverable should be accepted by the project steering group and presented to PTSRG and V/S SIC. The report will be produced in the RSSB template and will be made widely available. |

|  |  |
| --- | --- |
| **Deliverable Name** | **Type** |
| **Executive Summary Presentation of Key Findings** | Presentation |
| The presentation will be provided by the supplier to the project steering group. The executive summary presentation will be made widely available.  |

|  |  |
| --- | --- |
| **Deliverable Name** | **Type** |
| **Research in Brief** | Report |
| The research in brief should be created by the supplier, in partnership with RSSB, to summarise the findings of this work, in no more than 4 pages. The research in brief will summarise the aim, findings, impacts and benefits, background, and summary method of this work package. The document should also identify where to find out more information, identify recommendations and next steps for industry and further research and development.The draft research in brief will be produced in a RSSB template, and an example can be provided. The research in brief will be made widely available.  |

 |

# Stakeholders roles and responsibilities

|  |  |  |
| --- | --- | --- |
|  | **General role in project** | **Specific role in acceptance of deliverables** |
| **Project Manager** | The Project Manager is responsible for the detailed project management including project schedules, cost reporting and other relevant project management tasks. The Project Manager leads the project in organising meetings, etc. and ensures timely and effective delivery towards project objectives. | Facilitates technical review and acceptance processes, identifies, and monitors corrective actions where needed, including facilitating decision making |
| **Technical expert** | Throughout the project, the technical expert ensures that the research accurately reflects technical aspects. Technical aspects can refer to specific issues around Rail Operations, Performance, Recovery Planning, Stock and Crew Management, or any other specialist field.  | Reviews emerging outputs from technical perspective |
| **Industry and RSSB sponsor** | The Industry and RSSB sponsors act as a figurehead for the research, championing its importance and its outputs. Their key role is to provide steer to the research as it progresses and exert pressure on the industry to make use of its findings. | Formally accepts deliverables  |
| **Project supporters** | The project supporters represent parts of industry complementary to the champion’s organisation. They offer expertise for effective project delivery and support the implementation of findings led by the champion through networking, advice and other support. | Formally accepts deliverables  |
| **Project steering group** | The project steering group ensures the project delivers to industry needs. As such, it helps formulate specifications, assesses tenders, reviews draft and final outputs and other relevant tasks. | Formally accepts deliverables  |

# Budget, timescales and dependencies

The budget for this work is up to £75,000*.* Any bid above this value will need to provide detailed explanation on why the supplier doesn’t feel that the budget is adequate and in such case we strongly encourage suppliers to provide costed options for RSSB to consider.

The work is expected to start in February 2019 and be completed by July 2019. These are indicative dates and RSSB is prepared to consider bids that cannot meet these expectations if they have a robust and realistic project plan, and an explanation of why the expected start and end date cannot be met.

# Critical success factors and risk management

* Access to data / information for the desk-based review, analysis and economic assessment. This should be facilitated by RSSB and the project steering group, and suppliers are expected to identify appropriate sources information to support this work (e.g. open source data, academic articles).
* Access to stations to undertake case study site visits. This will be supported by RSSB and the project steering group.
* Appropriate mix of supplier expertise covering infrastructure, rolling stock, rail operations, and economic assessment. Selection and award criteria for ITT.
* Robust implementation strategy. A methodology that identifies the key insertion points, potential benefits (including tangible benefits), and transition steps to reach the potential end benefits.

# Appendix A – Sample data on high, tight and high and tight platforms

The below table illustrates sample raw data from the National Gauge Database. The data shown illustrates example measures taken from high and tight locations, but may not indicate platforms that are both ‘high and tight’. The desk-based review and analysis in T1166 should determine the high, tight, and high and tight platforms that have an adverse impact on rolling stock cascades and the wider network. Platforms selected for the case study platform site visits should be chosen based on the review and analysis task in T1166, which may differ to the locations indicated below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Platform location**  | **Cant (mm)** | **Radius (m)** | **offset (mm)** | **Height (mm)** |
| Data sorted to show example high platform locations | Paddington Station Platform 6 | 94.5 | 208.3333 | 895.3 | 1237.4 |
| Maryland Station Platform 4 | -17 | -25000 | 822 | 1230 |
| Plymouth Station Platform 2 East | 11 | -2272.727 | 865 | 1221 |
| Hull Station Siding Platform A | -8 | -328.9474 | 810 | 1208 |
| Walthamstow Queens Road Station Down Platform 2 | 5 | 0 | 886 | 1207 |
| Nottingham Station Platform 1  | 8 | 1785.714 | 882 | 1187 |
| Data sorted to show example offset platform locations | Burneside Station Single Platform | 74 | 1250 | 571 | 902 |
| Bletchley Station Up Platform 6 | 0 | -5000 | 585 | 880 |
| Upminster Station Bay Platform 1A | -31 | 0 | 590 | 823 |
| Ipswich Station Platform 3 | 2 | 892.8571 | 596 | 900 |
| Taunton Station Down Bay (West) Platform 1 | -12 | -5000 | 599 | 990 |

**Appendix X Form of Tender**

This section outlines how the offer from the Tenderer is to be constructed. Please return this Tender Declaration along with your Tender and retain a copy for your records.

Having examined the ITT email, the Instructions to Tenderers, the Information Required From Tenderers, the Conditions of Contract, the Specification and this Form of Tender (the “Tender Documents”), we offer to supply all/part of (delete as applicable) the goods, services or works specified in these Tender Documents.

We undertake if selected, to perform the contract in accordance with the Tender Documents, including the Conditions of Contract contained herein.

We agree that this tender shall remain open for acceptance by the Customer for 180 days from the date stipulated for the return of tenders.

We understand that you are not bound to accept the lowest, or any tender you may receive.

We certify that this is a bona fide tender, and that we have not fixed or adjusted the amount of the tender by or under or in accordance with any agreement or arrangement with any other person. We also certify that we have not done and we undertake that we will not do, at any time before the hour and date specified for the return of this tender, any of the following acts:

1. Communicate to a person, other than the person calling for the tenders, the amount or approximate amount of the proposed tender. Except where the disclosure, in confidence, of the approximate amount of the tender was necessary to obtain insurance premium quotations required for the preparation of the tender.
2. Enter into an agreement or arrangement with any other person that he shall refrain from tendering or as to the amount of any tender to be submitted.
3. Offer or pay or give or agree to pay or give, any sum of money or valuable consideration directly or indirectly to any person, for doing or having done or causing or having caused to be done, in relation to any other tender or proposed tender for the said goods, services or works, any act or thing of the sort described herein.

We recognise that the Customer reserves the right to clarify details of our offer prior to the award of any contract.

We hereby undertake that the period during which this tender remains open for acceptance not to divulge to any persons, other than the persons to whom the tender is to be submitted, any information relating to the submission of this tender or the details contained therein except where such is necessary for the purpose of submission of this tender.

**Appendix X Subcontractors**

All suppliers to RSSB are asked to provide details of all sub-contractors that will be used to perform the contract.

|  |  |  |  |
| --- | --- | --- | --- |
| Name & Address of Sub-Contractor | Service performed for Contractor | Provide details of staff numbers[[7]](#footnote-7) | Provide latest year’s turnover |
| Name:  |  |  |  |  |
| Address: |  |
| Name:  |  |  |  |  |
| Address: |  |
| Name:  |  |  |  |  |
| Address: |  |

**Appendix X Conflicts** **of** **Interest**

**Tenderers have a continuing duty to disclose actual or potential conflicts of interest in respect of itself, its named sub-contractors and / or consortia members.**

**Please describe any (potential) conflicts of interest that the Tenderer has identified and how these will be managed\*:**

If you **DO** **NOT** have any conflicts to declare, please tick this box: **[ ]**

Tenderers are reminded that failure to identify material conflicts of interest may lead to rejection of its tender response.

Guidance to Tenderers:

Tenderers should describe in the detail the perceived conflict (how it could be perceived in the context of this procurement) and the measures it will take to mitigate the conflict through the procurement life-cycle and service delivery

1. The Platform Train Interface Strategy: Technical report (RSSB, 2015). <https://www.sparkrail.org/Lists/Records/DispForm.aspx?ID=22428> [↑](#footnote-ref-1)
2. Platform Train Interface Strategy (RSSB, 2015) [↑](#footnote-ref-2)
3. <https://www.transportfocus.org.uk/research-publications/publications/national-rail-passenger-survey-nrps-spring-2018-main-report/> [↑](#footnote-ref-3)
4. Platform Train Interface Strategy (RSSB, 2015). See for further information <https://www.rssb.co.uk/Pages/platform-train-interface.aspx#location_1> [↑](#footnote-ref-4)
5. <https://www.rssb.co.uk/improving-industry-performance/leading-health-and-safety-on-britains-railway> [↑](#footnote-ref-5)
6. Where possible, the project steering group will support the provision of information and data to support the review and analysis. [↑](#footnote-ref-6)
7. This is the average annual numbers of both staff and managerial staff employed over the last trading year [↑](#footnote-ref-7)