Vehicle Data Services Tender Ref: HS2 1178 Schedule of Requirements

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1. *Employer*s Objectives

The High Speed Two project (HS2) is the Government's proposal for a new, high speed, north-south railway. Phase One will connect London with Birmingham and the West Midlands; Phase Two will extend the route to Manchester, Leeds and beyond.

The high speed railway project is in 3 phases:

- Phase 1   London to the West Midlands, currently being tendered for construction.

- Phase 2A   West Midlands to Crewe, currently under Hybrid Bill development.

- Phase 2B   West Midlands to Leeds, Crewe to Manchester, Consultation for a section and Hybrid Bill development to commence in the New Year.

It is the most ambitious infrastructure project in the UK, and the first new railway north of London in over 120 years. It will be fully integrated with the country's transport networks, boosting capacity and connectivity. It will support the creation of homes and jobs and unlock the collective potential of the UK regions.

HS2 Ltd is the company responsible for developing and delivering this high speed network. Formed in 2009, it is wholly owned by the Department for Transport ('DfT').

The *Employer* (HS2 Ltd) seeks to deliver a high speed railway system capable of supporting the service requirements set out by the Secretary of State for Transport that will enable a greater level of connectivity between city regions and improve journey times for passengers.

Amongst the key objectives the *Employer* seeks to deliver the project in full compliance with legislative environmental requirements and standards, fully sustainable practices and with minimal environmental impact. In pursuit of this objective the *Employer* seeks to monitor and manage the levels of emissions from all vehicles travelling to and from entering its construction sites at each phase of the railway construction.

Therefore, the *Supplier* shall provide services to support the *Employer* achieve this specific strategic objective. The requirement of this tender is therefore:

To provide vehicle data for the purposes of identifying the emission standard of each vehicle associated with the construction of the railway. This data shall help the Employer identify each vehicle's emission standards and compare to the standards set by HS2 in order to measure compliance.

Initial requirements are for Phase One, i.e. between London and Birmingham

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2. List of deliverables

The *Supplier* shall supply data fields related to vehicle emissions listed below and provide the *Employer* with the required data upon request.

2.1.1. The *Supplier* shall provide as a minimum the following for data for all vehicle information requests:

- Euro Class of vehicle;

- CO_2 (g/km) of vehicle;

- Fuel Code of vehicle; and

- Gross Weight of vehicle.

2.1.2. The *Supplier* shall provide the required vehicle data within one day of a request being made by the *Employer*. The *Supplier* shall provide details of how the data will be delivered, such as via a web services where data is provided with an automatic download. For the purpose of the tender the *Supplier* should assume that data requests would be made 7 days per week.

2.1.3. In addition to proving the data listed above for each information request, the *Supplier* shall provide a summary report, at the end of each quarter, of the number of requests for data made and the number of requests fulfilled each month.

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3. Description of Services: Provision of Vehicle Data Services

The *Supplier* shall:

3.1.1. Provide EURO Class, CO_2 (g/km), Fuel Code and Gross Weight data for each Vehicle Registration Number (VRN) submitted by the *Employer*. These VRNs will be a combination of HGVs, cars and vans. A template for submissions will be agreed between the *Employer* and *Supplier* at the start of the contract. The template for submissions may be reviewed on a periodic basis during the contract and any amendments to the submission templates shall be agreed between *Employer* and the *Supplier*.

3.1.2. Provide details of the data formats that are available for providing the data. The format of the data shall be agreed between the *Employer* and the *Supplier* at least one month prior to the start of the service to provide the data. The format of the data may be reviewed on a periodic basis during the contract and any amendments to the format of the data provided shall be agreed between *Employer* and the *Supplier* at least one month prior to any changes to the data format.

3.1.3. Provide details of the proposed response times for provision of the data. The frequency of data requests is expected to be daily (assuming 7 days working per week) and it is anticipated that a data will need to be provided within one day of a request for data being made by the *Employer*.

3.1.4. Provide a suitable data exchange process. This may be via a web service or alternative file share / exchange automated electronic system. The *Supplier* shall provide details of the data exchange processes they have available. The data exchange process shall be agreed between *Employer* and the *Supplier* at least one month prior to the start of the service to provide the data.

3.1.5. Provide details of the quality assurance and quality control processes that will be in place.

3.1.6. Provide examples of where a similar data service has been provided and how previous experience and knowledge will add value to HS2 Ltd, including highlighting the outcomes and solutions provided and how these will benefit HS2 Ltd.

3.1.7. Outline any potential challenges and risks in providing the service that may need to be addressed.

3.1.8. Ensure compliance with UK Data Protection legislation.

3.1.9. Provide details of your IT security and safety systems and complete the provided 'HS2 Vehicle Data Services Tender IT Security Evaluation Methodology' questionnaire.

3.1.10. Assure that the *Supplier* shall provide deliverables on behalf of the *Employer* in accordance with the 'HS2 Vehicle Data Services Tender Supply of Good and Services Terms and Conditions' attached to this ITT.

3.1.11. Provide the service with invoicing in arears with a minimum invoicing period of monthly and a maximum of once per financial year.

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3.1.12. It is not expected to be necessary to attend any meetings at the *Employers* offices.

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4. Information and other things provided by the *Employer* and Others

4.1.1. Currently it is not possible to provide an accurate forecast of the anticipated number of service requests over the three year contract award period. The source of the data requests are vehicles attending any HS2 construction site. This will include a range of vehicle types (cars, vans, lorries) but the majority will be heavy goods vehicles. Any vehicle visiting a HS2 construction site will have a range of information including the VRN recorded at gate check in. All of this data will be held in HS2's vehicle management system. It will be this system that provided a list of VRNs for individual data service requests.

4.1.2. During the construction of HS2 a range of main and satellite construction sites will be in use, each with its own site specific construction programme. During peak construction there are estimated to be up to 7100 vehicles entering HS2 sites per day, of which an estimated third will be repeat visitors. On this basis it is estimated that up to 5250 unique vehicles a day will enter HS2 construction sites. However a many of the vehicles will be repeat visitor over multiple days. The list of VRN recorded in the vehicle management system each day will be filtered and a vehicle data service request will be submitted for each new unique vehicle entering a HS2 construction site. As construction rates increase it is envisaged that vehicle numbers will increase but also the repeat vehicle proportion will increase.

4.1.3. HS2 Ltd understand many companies apply economies of scale in their pricing structure. Requests will be send on an as needed basis and the total number of requests per day/year cannot be guaranteed. However, for transparency the following service request estimates for the three years, calculated assuming a maximum of 5250 vehicle data requests per day, will be used for tender evaluation purposed. The *Contractor* shall provide costs for the scenarios in the below table and include these in the tender submission. Given that it is not possible to provide an accurate forecast of the anticipated number of service requests, the price for each scenario will be given an equal weighting in the tender evaluation.

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Examples figures for tender evaluation purposes	2017/18	2018/19	2019/20
Single service request	1 request	1 request	1 request
Up to 1000 service requests	up to 1000 requests	up to 1000 requests	up to 1000 requests
Up to 10,000 service requests	up to 10,000 requests	up to 10,000 requests	up to 10,000 requests
Annual estimated vehicle data service requests scenario 1	150,000 requests (150 days x 1000 unique vehicles per day)	610,000 requests (305 days x 2000 unique vehicles per day)	1,601,250 requests (305 days x 5250 unique vehicles per day)
Annual estimated vehicle data service requests scenario 2	75,000 requests (150 days x 500 unique vehicles per day)	305,000 requests (305 days x 1000 unique vehicles per day)	1,220,00 requests (305 days x 4000 unique vehicles per day)
Annual estimated vehicle data service requests scenario 3	37,500 requests (150 days x 250 unique vehicles per day)	152,500 requests (305 days x 500 unique vehicles per day)	762,500 requests (305 days x 2500 unique vehicles per day)