

Table 3 - Definition of Rolling Stock Minimum Requirements and Specifications

Rolling Stock Minimum Requirements and Specifications			Definition
Type and Route Information	1	Class	The applied TOPS unit class and subclass, in the format of xxx/y
	2	Type	EMU, DMU, DEMU, Loco, Other
	3	[REDACTED]	[REDACTED]
	4	[REDACTED]	[REDACTED]
	5	Lease Start Date	Start date of the lease
	6	Lease End Date	End date of the lease
	7	Number of units at the beginning of the franchise (baseline number for Table 4)	Total number of vehicle associated with the class and sub-class, included within the contract. This number is used solely to indicate the rolling stock numbers at the beginning of the franchise. All other data request for vehicles and units relates to the final number of vehicles and units
	8	Number of units (max number used during contract)	Total number of units associated with the class and sub-class, included within the contract (final number)
	9	Vehicles / Unit	The number of vehicles per unit
	10	Specified Routes	Details of the primary route which the vehicle will operate on
Minimum Requirements	11	PRM / RVAR Compliant (* Mandatory compliance by December 31st 2019)	Is the vehicle RVAR 2010 and / or PRM TSI compliant, as defined by the ORR.
	12	Seats aligned with windows	Where practicable, seats should align with windows. However where this significantly reduces the available seats, bidders shall provide solutions which limit seats without windows. The target is that at least 90% of seats should have a clear view out of an adjacent window.
	13	PRM Compliant Toilets	Toilet which meet the full requirements of the RVAR 2010 and the PRM TSI requirements.
	14	CET Toilet	Vehicle shall be fitted with chemical retention tanks or Controlled Emission Tanks (CET), and human waste from toilet shall not be disposed onto the track. The solution should NOT provide any odours into the vehicle (passenger area or toilet)
	15	Baby changing facilities	Provides a durable baby changing facility, which has no surface fixing screws and a hygienic finish with easy maintenance and cleaning.
	16	Power Supply available at all seats	Provision of a power supply to allow each passenger to charge personal electrical devices. The type of power supply is dependent on the Service Type as follows: Mains power supply available at all seats' – applies only to Long Distance / Express USB power supply available at all seats' – applies to all Service Types
	17	Catering facilities	The bidder shall provide passengers access to catering, either through a trolley service or fixed catering position.
	18	Overhead racks throughout train for storing small items of luggage	Overhead luggage racks should be able to safely store items of baggage of dimensions 56cm x 25cm x 45 cm.
	19	Facilities for storing large items of luggage within sight/proximity of passengers	Luggage stacks should be designed to make the best use of the space available on board. Luggage stacks should be designed in a way and located in the vehicle interior so that the luggage area remains visible to passengers when seated.
	20	Storage capacity for pushchairs / prams	
	21	Dedicated cycle storage	Storage provision should be located in close proximity to access doors, positioned on suitable flooring and make optimum use of available space.
	22	Flexible storage for cycles	
	23	Vehicle will not affect mobile phone signal	The vehicle design or windows construction / coatings should ensure minimal mobile signal loss.
	24	Passenger Counting system	The passenger counting system should be sufficient to capture the movement of passengers, on and off the vehicles, on a car by car and door by door basis. The system should include sufficient intelligence to capture the door, vehicle, station location and time and date fields, combined with the passenger loading data. 100% fitment to the fleet is not required, however the bidder shall demonstrate that they will install a passenger counting system to a sufficient population of the fleet, to enable realistic data capture of passengers travelling on peak and off-peak services.
	25	CCTV (passenger environment)	CCTV coverage and on-board recording at a minimum of 2 fps normal and 25 fps for 2-mins before and 5 mins after a trigger event of all passenger areas (except toilets).
	26	Wireless internet access	Wifi system of sufficient bandwidth to support customers' requirements and with a functionality that exceeds or at a minimum matches that of the systems currently fitted on the rolling stock deployed by the current operator.
	27	Air Conditioning System	An air-conditioning system which is compliant with relevant legislation and provides cooling and optimal temperature to maintain a comfortable environment for passengers under the range of operating conditions that can be reasonably be expected within the area of operation.
	28	Pacer removal from service	All Pacers must be removed from service on all Service Types by 30/09/2020. If the Bidder will comply with this requirement they should enter 'Yes' otherwise they should enter 'No'
	29	[REDACTED]	[REDACTED]
	30	Seat reservation	A system that provides a clear display to passengers of the portions of each journey for which a seat has a reservation. The system must be capable of being updated with accurate seat reservation status information immediately prior to and, where reservations are possible after a train has left its origin station, during the course of each journey.
General Information	32	Vehicle Length in metres	Length of each vehicle
	33	Number of vehicles fitted with passenger counting system	Number of vehicles fitted with an automated passenger counting system
	34	Year built	Average date of fleet build
	35	Age at the Start Date	Number of whole years elapsed between date of build and the Start Date.
	36	Max speed in mph	Maximum approved operating speed of the rolling stock
	37	Vehicle range limiting factor	The normal operational mileage range of the vehicle without returning to the depot factor or stabling point i.e. mileage per tank of fuel, battery range, etc., based on the selected Service Type.
	38	Flexibility to deploy on other routes	What other routes and service types can the vehicle be deployed on to provide flexibility of service, noting that rolling stock must meet the minimum requirements of all routes on which it is deployed
	39	Maximum operating length of train in metres	The safety operating length of the unit.
	40	Remote Fault-finding systems	Details of any fault-finding systems fitted which assist the driver / guard.
	41	Vehicle and infrastructure monitoring systems	Details of any installed infrastructure monitoring systems.
	42	CCTV (forward facing)	CCTV system inclusive of forward facing camera mounted in each driving cab.
	43	Acceleration rate in m/s ²	Provide the maximum acceleration rate as defined by the rolling stock owner
	44	Deceleration rate in m/s ²	Provide the maximum deceleration rate as defined by the rolling stock owner
	45	Engine Emission Standard	Diesel the relevant European engine emission standard i.e. Stage 3b, Stage 5, etc.
	46	Unit tare weight in tonnes	Details to be provided of tare weight (the fully unladen weight) per unit
	47	Unit fully laden weight in tonnes	Details to be provided of the fully laden weight (the weight with the total seating and total standing capacity occupied) per unit
	48	Diesel emission statement	Where a diesel engine is fitted, identify the defined emissions for all current and future rolling stock
	Capacity Information	49	Standard Class Fixed Seats
50		Standard Class Tip-Up Seats	Total number of standard class tip-up seats per vehicle - do NOT include fixed seats. Please list various vehicle configurations within a unit / rake, as appropriate.
51		Standard class seating layout (1+2, 2+2, 2+3, longitudinal, etc.)	Details of seating layout making reference to drawings as appropriate - relates to standard class only
52		First / Business Class Fixed Seats	Total number of first / business class fixed seats within the vehicle. Please list various vehicle configurations within a unit / rake, as appropriate.
53		First / Business class seating layout (1+2, 2+2, 2+3, longitudinal, etc.)	Details of seating layout making reference to drawings as appropriate - relates to first / business class only
54		Wheelchair Spaces per Unit	Number of wheelchair spaces provided per unit
55		Standing Capacity	Capacity available for standing passengers, variable by Service Type as per Table 1A through D (see ITSFT and rolling stock capacity note for further details and guidelines for submitting standing capacity numbers)
56		Dedicated cycle storage per unit	Storage provision should be located in close proximity to access doors, positioned on suitable flooring and make optimum use of available space.
57		Flexible storage for cycles per unit	Storage provision should be located in close proximity to access doors, positioned on suitable flooring and make optimum use of available space.
58		Toilets per unit	Number of passenger toilets that are available on each unit
59		Door position on vehicle (i.e. vehicle end doors or 1/3 and 2/3 positioned doors)	Layout and configuration of doors on each vehicle.
60		Facilities for standing passengers	Facilities provided for standing passengers including hand rails and standing areas
61		Number of fixed tables per vehicle	Total number of tables per vehicle. Please list various vehicle configurations within a unit / rake, as appropriate.
62		Number of folding tables per vehicle	Number of folding tables located on the back of seats
63		Type of heating and ventilation fitted (air conditioning, pressure ventilation and body side heater, etc.)	Details of the type of heating and ventilation fitted (air conditioning, pressure ventilation and body side heater, etc.)
64		Floor covering (i.e. lino, carpet, etc.)	The type of floor cover fitted throughout the vehicle (i.e. lino, carpet, etc)
65		Door control system fitted	Door control system proposed for units
66		GPS system fitted	Details of any GPS tracking systems fitted and how this is distributed within the train itself and provide to external systems. In particular, how this fits with the requirements of the RDG Train Location and Movement (TL&M) Project's GPS Gateway interface.