

Summary of Additional Information and Changes market consultation delivery and installation of line displays for Combino Trams

Below you will find the questions that have been asked in the information round and their answers, and any corrections and additions on our part.

Date: December 10, 2020

Answers to questions asked

Number	Categorie	Betreft	Vraag	Antwoord
01	Annex 2 Market consultation questions	2. General business and market information	The number of questions in chapter 2 differs in the Dutch version (15) compared to the English version (22), which version is leading?	By mistake, some questions have been removed from the Dutch questionnaire and some were doubled in the English version. An amended Dutch en English questionnaire is attached to this memorandum, which fully corresponds to each other.
02	Annex 3	4.8 Process Requirements	Is it possible to have multiple trams available during the indicated timeframes; during the day (10:30-14:30) or at night (20:00-05:00)?	Because we plan work outside rush hours, it may be possible to make several (2 or 3) trams available at the same time. We will investigate the possibilities and we will add the possible options to the tender documents.
03	General		Is there a test setup with the generic ICT vehicle architecture (GIVA) information system available to test the new LED displays, and if so, where is it located?	Yes, there is a test set-up at the location Hoofdwerkplaats Rail Provincialeweg 2-4 Diemen. Please note that this test setup is not located in a tram but in a test room made for it.
04	General		Is it possible to indicate the type of cabling currently used in the Combino trams for the displays (power and data)?	Not at this stage. This information is added to the tender documents
05	General		If we need to replace the existing cabling, does this need to be removed from the tram or can we let it remain (isolated) in the vehicle?	The old cabling must be removed.
06	General		How many tracks will be available for the replacement of the displays?	GVB provides sufficient space in and around the tram to carry out the work efficiently.

07	General		Will GVB take care of the shunting of the trams?	Yes, you can assume that GVB will do this
08	General		Can GVB make spare parts (including bracket) of each type available during the engineering phase of the contract?	Thanks for your suggestion. During the market consultation, we further investigate whether this is an option that can be included in the engineering phase.
09	General		Can you share the drawings and technical specifications of the current displays?	Drawings have now been added. See the added PDF attachments for this.
10	Marketconsultation document	4.1 Background	Which type of display is currently installed at the moment?	
11	Marketconsultation document	4.1 Background	Who is the actual supplier of the displays?	The OEM supplier is Annax.
12	Marketconsultation document	4.1 Background	At which supplier do you repair the displays at the moment?	At the OEM supplier Annax.
13	Marketconsultation document	4.2 What is requested	Why is a successful implementation of the new displays requested specifically before end of 2022?	Because other work has to be done on trams and too much work at the same time is at the expense of the availability of the trams. GVB is of the opinion that if implementation starts at the beginning of 2022, the work should be ready by the end of 2022.
14	Draft program of requirements	4.6 Technical requirements ²⁴	Is the assumption correct that we can re-use the current 24VDC power supply and cabling for the new displays?	That is up to you to decide. The entire system to be delivered must last for 15 years without major repairs and replacements. If you can guarantee that this is possible with current power supplies and cables that are already 15 years old, you can reuse them as long as they meet the requirements.
15	Draft program of requirements	4.6 Technical requirements ²⁶	Can GVB provide the current earthing principle of the Combino vehicles?	Not at this stage. This information will be added to the tender documents
16	Draft program of requirements	4.6 Technical requirements ³²	Should the to be re-used cabling comply with the regulations indicated in requirements 32 t/m 35? If yes, could you share the specification of the cabling?	Yes, the cabling must meet these requirements, including recycled cables. No information is available on existing cables at this stage. This information is added to the tender documents
17	Marketconsultation document	4.1	How many kilometers do the Combinos drive on average per year?	The Combinos drive about 70,000 kilometers per year, but that seems less relevant to us. We refer here to question 4.01: What, in your opinion, is the expected technical life of the following parts. You should assume an effective operating time of 6000 hours per year

18	Marketconsultation document	4.1	How many hours per day is the Combino operational on average?	See question 17 and question 4.01 questionnaire
19	Marketconsultation document	4.2	Type of interface plugs with GIVA? Protocol?	See PoR and appendices to PoR
20	Marketconsultation document	4.2	Distance to the network switches per display?	See drawing in the market consultation document.
21	Draft program of requirements	4.1	What should the certification of cabling consist of?	The cables to be used must meet the requirements and standards set (product certification). A copy of a test certificate must demonstrate that a product test and certification has taken place.
22	Draft program of requirements	50	Is there a possibility for a partial conversion (eg front / rear separate from side displays), if this fits better in time schedule and if this is considered technically possible.	In theory this is a possibility, but this is not preferred due to the more complex planning this entails and the impact on the operation
23	Draft program of requirements	55	Is it possible to extend the installation time?	Yes you can, but this is not preferred, see also the answer to question 02
24	Draft program of requirements	55	Is it allowed to work at multiple locations at the same time?	Yes this is possible
25	Draft program of requirements	59	Is there room for organizing a local waste collection point on location?	Yes, but the space is limited to a maximum of 10 m2
26	Draft program of requirements	59	Is it possible to supply and remove materials per week? This saves significant logistics costs.	See answer to question 25 and 31
27	Draft program of requirements	66	Decrease obligation is excluded within the tender, increases the risk and this affects the calculation of the total size of the project scope and affects project purchasing and management.	PoR is draft. GVB would like to discuss this further in the market consultation. Request is to give your opinion on this when you are answering our questions
28	Draft program of requirements	66	Can GVB provide up-to-date installation and removal instructions for current displays in the vehicles in advance?	This becomes transparent through the provision of drawings and during an inspection during the actual tender. You will of course give the opportunity to inspect the installation and removal of the screens in a tram, as well as the routes of cables to be mounted and removed and the coupling on switches.
29	Draft program of requirements	66		GVB could divide tendering into lots and, for example, purchase the delivery separately from the (dis)

			How does GVB view the offer if parts of the offer are purchased?	assembly. GVB organizes this market consultation to find out what the market's preferences are and what the most attractive option economically and organizationally is.
30	Draft program of requirements	74	Dimensions of the displays exceed euro pallet dimensions. Can GVB indicate that larger dimensions are not a problem for goods receipt after all?	Yes this is allowed
31	Draft program of requirements	Annex plan of action	Making space available for storage, what options can we include for this. From a cost perspective, a mobile workshop and day (s) - week stock of material would provide a considerable cost reduction, there are possible alternatives on location for placing mobile storage ect.	GVB assumes that this will take place on the relevant GVB site by means of 10 or 20 ft sea containers. GVB is investigating how much space is available for this and returns to this in the tender documents
32	Draft program of requirements	Annex plan of action	Training GVB personnel For how many people should the training be given and to what level should the people be trained. Which actions are expected independently?	It concerns (dis) assembly of screens and configuration of the screens. The numbers of employees to be trained will follow in the tender documents
33	Alg		Can all documents be provided in English? And an English offer later in the tender?	GVB will consider this. A Dutch manual must always be provided.
34	IRS-IDD		Can GVB specify interfaces to display? Protocols? Other vehicle interfaces?	See annex 3-1 and 3-2 GIVA
35	General		We would like to know the award criteria for this tender.	These are determined, among other things, on the basis of the results of this market consultation
36	General		As a manufacturer of LED panels, we are considering participating in this tender. We have to find a (Dutch) partner who can take care of the (dis) assembly. Does GVB have regular parties that it works with for these types of assembly jobs? Or does GVB prefer specific parties. If so, can you provide the contact details of these parties?	GVB has good experiences with a number of parties for installation in and on trams. More information will be provided in a timely manner during the course of this project and this tender.

Changes and additions to market consultation documents by GVB

Insofar changes have been made in documents, new versions of documents are provided and older versions of documents have expired.

Expired Market Consultation Documents

The following documents have expired:

- Annex 2 Market consultation questions
- Bijlage 2 Vragen marktconsultatie (Dutch version)

New Market Consultation Documents

The following new documents have been added:

- Annex 2 Market consultation questions changed NOI
- Bijlage 2 Vragen marktconsultatie aangepast NvI (Dutch version)
- The following drawings belonging to Appendix 3 PVE replacement line displays NF0.6:
 - GVB-0143-0019-10-001
 - GVB-0143-0019-10-002
 - GVB-0143-0019-10-003
 - GVB-0143-0019-10-004

***** End of Summary of Additional Information and Changes *****