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To: Tender Participants

**E-Tender (Online) No. 15/21 A Framework Tender for the Supply, Integration, Operation and Maintenance for a MTMS (Metropolitan Traffic Management System) and its Modules (the “Tender”)**

**Clarification Notice no. 4**

Ayalon Highways Co. Ltd. (the “Company”) is hereby publishing a clarification to the Tender Documents, as follows.

**Please be advised that the Company has uploaded Appendices B + C of the Framework Agreement on its website. The Participants are requested to attach a signed copy thereof to their Proposal.**

#	Document	Chapter and Paragraph	Page	Question	Answer
1	C	1.3	4	Will the MTMS manage the traffic of Tel-Aviv and central district? Are there any additional traffic systems with which the MTMS have and interface with?	The MTMS will manage traffic in all Tel-Aviv metropolitan area. There are additional traffic systems which the MTMS shall have interfaces with, such as traffic light control systems and highway management systems. These interfaces are explained in the document.
2	C	1.3	4	Please confirm that Ayalon Highways will prepare and provide the overall mobility strategy and predefined response plans that the MTMS needs to deploy.	The Ayalon Highway Company will provide the traffic mobility strategies and predefined response plans.
3	C	1.3	4	Our understanding is that the Supplier of any module of the MTMS will not be responsible for the adaptations needed in the existing systems (urban highways...) required to be integrated into that MTMS-Module to fulfill its requirements. Please, kindly confirm or provide further explanation.	All modules suggested by the Bidder must be able to integrate with existing modules as described in the document. We expect that normally no adaptation will be needed to integrate with the Bidder's modules, but if so, the Bidder must elaborate about these required adaptations.
4	C	2.2.1	7	Missing reference, what is the correct reference?	The reference is to chapter 3 – MTMS Interfaces.
5	C	2.3.2	8	Clause 2.3.2 stipulates Estimated travel time and velocity, and other traffic indexes per road section including travel time and velocity per lane wherever data is available.	The Bidder shall assume wide deployment of cameras and sensors (commonly known traffic sensors – magnetic sensors, Bluetooth sensors, etc.) along the metropolitan roads. As mentioned, the calculation will

				The data source or sensor information to develop such a functionality is not described. Please provide more information on this point.	depend on received data. The Bidder shall describe its ability to produce the mentioned estimations.
6	C	2.3.3	9	What historical traffic data do you have available? Things that would be useful to know are the number of months or years of historical data, the number of detectors available, and also the types of data available i.e. ,count speed, or occupancy	Partial historical data is available only for the Ayalon Highway Road, data types are as mentioned in the question. Historical urban roads data is currently not available but may be available by the Specific Invitation stage.
7	C	2.3.3		Is the GIS data for the perimeter area available?	Yes
8	C	2.3.3		In addition to the Metropolitan area described, could you tell us more about the characteristics of the perimeter area? Could we have a map of the perimeter area? Would you like us to consider - all the roads coming in and out of the area or only the main arterials? What types of controllers are - used in the area and who are the providers?	A map will be provided at the Specific Invitation stage. Not all roads of the metropolitan area will be managed by the MTMS. The focus will be on roads with substantial traffic focusing on public transportation. In addition, the responsibility for the road management will be transferred to the MANTAM gradually over the years. The controllers are the standard known controllers – traffic lights, HOV/HOT lanes, reversible lanes, speed limit management, etc. Please note that the controllers will be operated by the UTC system and the Highway management system and not directly by the MTMS.
9	C	2.3.4	9	What real-time data do you have ?available	Real-time data is currently available only for the Ayalon Highway Road, and it includes partial coverage of cameras, magnetic and bluetooth sensors. The MANTAM establishment will include deployment of additional sensors, some are the same type of existing sensors, however, the Bidder shall assume deployment of new sensors.
10	C	2.3.6	9	Are there any other ITS devices to be considered, such as ramp metering, HOV/HOT lanes, reversible lanes, or speed limit management. Would we have access to the algorithm/logic for these elements?	The mentioned devices are used or expected to be used in later stages. Inventory data of these devices will be available through a C2C interface to the highway and UTC systems. Access to algorithms and logics are not guaranteed.
11	C	2.3.6	9	Is there an existing transport model available of the perimeter area? If so, could you please tell us:	There is a strategic transport model which is periodically updated. No dynamic model. The model can be shared with the

				<p>- Is it a strategic or a dynamic model?</p> <p>- When was it last updated?</p> <p>- Is there any documentation associated with this model that will be made available to the bidders?</p>	Bidder at the Specific Invitation stage.
12	C	2.4.4	12	<p>Is the Emergency route management to be done by the existing/external UTC systems or by the MTMS Urban Traffic Control module?</p> <p>If the MTMS needs to interface with existing/external UTC systems, are the existing/external UTC systems supporting this feature?</p>	The MTMS shall be able to send requests to the internal and external UTC systems to provide preferences to emergency vehicles if needed. We cannot assure <b>external</b> UTC systems to reply to these requests, but it is not under the MTMS responsibility.
13	C	2.4.7	13	<p>This clause seems to be requesting for a CAD/AVL system that must be able to do management and dispatching operations. Please, confirm this point. Is MTMS expected to be a CAD/AVL tool for public transport?</p>	CAD/AVL system is not part of the MTMS, but rather under the public transportation authority. The MTMS shall establish an interface with this system as it is essential to traffic management systems to provide preference to public transportation.
14	C	2.4.8	13	<p>Is MTMS expected to manage price policies for Parking facilities?</p> <p>Please, provide further details on this requirement and provide clarification on supporting dynamic pricing management processes.</p>	The MTMS is not expected to manage price policies for Parking facilities, but to provide inventory data from parking lots as important information for traffic management.
15	C	3.1	14	<p>Please confirm that the Supplier of the MTMS is not responsible for delays or incurred cost caused by 3rd parties providing such modules.</p>	Issues regarding project management plan are not relevant to this framework Tender. This issue will be relevant at the Specific Invitation stage.
16	C	3.1.2	14	<p>Please provide more information about existing SIEM tool and interfaces availability.</p>	<p>Detailed information regarding SIEM will be provided in the Specific Invitations for the execution of a Specific Task, when published.</p> <p>At this point the Bidder shall only describe its suggested system ability to interface with SIEM.</p>
17	C	3.1.6	15	<p>Please provide more details about existing interface for Web and Mobile App and the expected data to be published.</p>	<p>The request is that the MTMS will disseminate traffic information, e.g, traffic volumes, times, speed, queue lengths, incidents, events and level of services.</p> <p>The dissemination shall be based on standard API (REST) so mobile applications and websites will be able to use this data.</p>
18	C	3.2	15	<p>Please confirm that the Supplier of the MTMS is not responsible for delays or incurred cost caused by 3rd parties providing such interfaces to the MTMS.</p>	Issues regarding project management plan are not relevant to this framework Tender. This issue will be relevant at the Specific Invitation stage.

19	C	3.2.3	17	<p>Our understanding is that Ayalon Highways will be responsible of the coordination between the Supplier of any module of the MTMS and the different Authorities, or other Suppliers whose modules/systems are required to be integrated into the scope of the Supplier (either for Public Transportation Authority Systems or for any of the other modules required to be integrated into the scope of the modules of that Supplier). Please, kindly confirm or provide further explanation.</p>	Confirmed
20	C	3.2.7	18	<p>Please provide further information about the existing C2 systems and details about their interfaces to the MTMS</p>	<p>Detailed interfaces to C2 systems will be described in the Specific Invitations for the execution of a Specific Task, when published. The interfaces are expected to be a web interfaces (REST) and include forces inventory (locations, resources, etc.) and events status.</p> <p>At this point the Bidder shall only describe its suggested system interfaces with C2 systems, if any.</p>
21	C	3.2.8	18	<p>Please confirm if there's a preferred weather service provider. Further please confirm that Ayalon Highways will bear any associated costs, if any.</p>	<p>There is no preferred weather service supplier at this stage. Ayalon Highways will bear the costs for receiving the data.</p>
22	C	3.2.9	18	<p>Please provide further information about existing CRM systems and their interfaces.</p>	<p>Detailed interfaces to CRM systems will be described in the Specific Invitations for the execution of a Specific Task, when published. The interfaces are expected to be a web interfaces (REST) and include events status.</p> <p>At this point the Bidder shall only describe its suggested system interfaces with CRM systems, if any.</p>
23	C	4.8	21	<p>Please confirm that the infrastructure of the MTMS (OnPrem Data Center, Cloud or hybrid environment) will be procured by Ayalon Highways and is not subject of the MTMS tender.</p>	<p>The current plan is to establish an infrastructure at the Ayalon Highway DC and to provide virtual machines to the Bidder for the MTMS installation. This plan is still not finalized, so the Bidder may be requested to procure the servers for the system. A final decision will be made prior to the publication of the Specific Invitation for the execution of a Specific Task, and the Framework Suppliers will be able to price it.</p>

24	B	2		Appendices B + C of the Framework Agreement have been uploaded to the Company's website.
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**This document is integral part of the Tender Documents, and the Participant is requested to attach a signed copy thereof to its Proposal.**

Name of Participant: \_\_\_\_\_ Participant's Signature:  
\_\_\_\_\_ Date: \_\_\_\_\_