

Request for Information (RFI)

**Regarding Temporary Road Markings
(Orange- Colored Road Markings)**

**For Traffic Arrangements in Work Sites
Areas for A, B, C Level of Service**

May 2021

1. Background

- 1.1 Ayalon Highways Ltd. (hereinafter: the "**Company**" or "**Ayalon Highways**") is a government-owned company in charge of promoting the planning and execution of transportation projects as an executive company of the Ministry of Transport.
- 1.2 One of the company's' main projects is the "Fast Lanes" project- developing High-speed lanes along Road 20, Road 2, and Road 5.
- 1.3 As part of temporary traffic arrangements needed for the construction of the project, lanes and road surface markings are marked in an orange color. According to the instructions of the Ministry of Transportation for the application of marking materials in work sites with speeds above 50 km / h, the orange colored marking must, at least, meet the level of service C:

TABLE 5.6- Required LOS of orange markings in non-urban roads

Work site speed	Road section markings		intersections and interchanges (approaches included)
	Without a built separation area	With a built separation area	
Above 50 km / h	C		C
50 km / h and under	D		

- 1.4 The use of any material for road marking is subject to the approval of the material by the Inter - Ministerial Committee on Traffic and Safety Devices.
- 1.5 Currently, the brochure of devices and markings approved by the Inter - Ministerial Committee on Traffic and Safety Devices (dated October 2020) contains only orange-colored road marking material for service level D.
- 1.6 In view of the above, the Company is hereby issuing a Request for Information (RFI) regarding orange-colored road markings for temporary traffic arrangements in work sites at service levels A,B,C (hereinafter: the "**Request**").

2. Description of the required solution

2.1 The orange- colored road marking materials for work sites are required to comply with the Israeli Standard SI-1871 (Road marking materials- Paints, thermoplastic, cold plastic materials - Specifications) or with the Israeli Standard SI-1790 (Road marking materials –Preformed road markings), depending on the type of marking material.

These standards define the photometric, physical and functional requirements of road marking materials, including orange colored road marking materials.

In addition, additives to road marking materials (glass beads/antiskid aggregates) should meet the requirements of the Israeli Standard SI-1423 (Road marking materials – Drop on materials – Glass beads, antiskid aggregates and mixture of the two).

For example, attached are the chromaticity co-ordinates for orange road marking products as written in the Israeli Standard SI 1871:

Chromaticity co-ordinates		Corner point N°			
		1	2	3	4
orange	X	0,540	0,520	0,575	0,595
	Y	0,360	0,390	0,410	0,375

2.2 The level of functionality required from the orange colored road marking material for work sites should be in accordance with the guidelines for selection and application of standard road marking materials issued by the Ministry of Transport (2nd edition- October 2020) for service levels A,B,C.

For example:

TABLE 5.1- LOS of road marking materials applied to a roadway

LOS	Color	Minimum luminance coefficient under diffuse illumination Qd (mcd/m ² /Lux)		Minimum coefficient of retroreflected luminance RL (mcd/m ² /Lux)		Skid resistance Minimum SRT value	Durability test – Minimum of wheel passages*
		white	Yellow/orange	white	Yellow/orange		
A	white	Q4≥160		R4≥200		S1≥45	P7
	Yellow**		Q3≥130		R3≥150	S1≥45	P6
				Q2≥100		R2≥100	S1≥45
	orange		Q3≥130		R3≥150	S1≥45	P6
B	White**	Q3≥130		R3≥150		S1≥45	P6
		Q2≥100		R2≥100		S1≥45	P7
	Yellow**		Q3≥130		R3≥150	S1≥45	P5
				Q2≥100		R2≥100	S1≥45
	orange		Q3≥130		R3≥150	S1≥45	P5
C		Q2≥100	Q2≥100	R2≥100	R2≥100	S1≥45	P5
D		Q2≥100	Q1≥80	R2≥100	R1≥80	S1≥45	P5
E		Q2≥100	Q1≥80	R0	R0	S1≥45	P4

*According to standards EN13197, EN1824

**Compliance with the requirements of the two lines is required

TABLE 6.1- Minimum functional values for road markings maintaining

LOS	Minimum luminance coefficient under diffuse illumination Qd (mcd/m ² /Lux)		Minimum coefficient of retroreflected luminance RL (mcd/m ² /Lux)		Skid resistance Minimum SRT value
	white	Yellow/orange	white	Yellow/orange	
A	120	120	150	120	45
B	110	110	120	110	45
C	100	80	100	100	45
D	80	80	80	80	40
E	80	80	-	-	35

- 2.3 To the extent that there is a physical, chemical and / or other limitation which prevent compliance with SI-1871 or SI-1790, the Company requests to receive a reference to the above together with details and examples.
- 2.4 It should be noted that any road marking material which meets the requirements of the SI and the relevant guidelines will be brought to the approval of the Inter - Ministerial Committee on Traffic and Safety Devices by its' manufacturer before it is used on Israeli roads.

3. **E-Tender (Online)**

- 3.1 This RFI will be conducted as a web-based e-tender as per the provisions of Regulation 19 C of the Mandatory Tender Regulations 5753 - 1993. Bidders are aware that they must submit their Proposal through the electronic system operated and maintained by “Dekel” company (“**Dekel Tender System**”), and that no proposal will be accepted in these proceedings that is not submitted through the Dekel Tender System.
- 3.2 All parties interested in participating in the RFI, are obligated to register in advance in the Dekel Tender System. For purposes of the advance registration, it is necessary to enter the web-based system link that will be published on the Company’s Website under the “Tenders” tab on the relevant Tender webpage, It is recommended to preregister so as not to be late submitting clarifications or the Proposal due to various delays and possible faults.
- 3.3 It should be clarified that insofar as the Participant has registered in the Dekel Tender System in the past, there is no need for any renewed registration.
- 3.4 Following registration to the RFI, the Bidder will receive an email notification confirming the registration and details for entry into the system. Bidders are recommended to save this confirmation for continued control and follow-up.
- 3.5 Should no registration confirmation be received, the Bidder must then contact Ms. Katya Goldovich from the Dekel Co. at +972 - (0)4-8145400 Extension 1 or by email: service@dekel.co.il and verify that the request to register for the RFI was received and handled. It is the sole responsibility of the Bidder to ensure sufficient time in advance, that registration for the RFI was executed properly and it has received access to the automated system for participation in the proceedings, and the Bidder hereby irrevocably waives in advance any claim against the Company concerning the absence of any possibility for the Bidder to submit clarification questions/Proposal in a timely manner through the automated Dekel Tender System.
- 3.6 In order to submit clarification questions and receive notices from the Company regarding the RFI, through the Dekel Tender System, Bidders are required to pre-register for the RFI through the Dekel Tender System. No claim will be accepted by which the Bidder was in any way prevented from timely submitting clarification questions / a Proposal, including any technical fault, lack of a suitable internet connection or any lack of available technical support in executing the registration.
- 3.7 The Bidder must scan all of the signed RFI Documents, as specified in Section 2 above, including RFI appendices, and attach all of the required documents for the purpose of supporting the Proposal and as proof of threshold compliance.

3.8 The Bidders' attention is directed to Appendix B in the terms of the RFI – A Declaration Concerning the Terms of Participation in the RFI as part of the Dekel Tender System.

4. Response to the request

4.1 The Response to the request, and all its appendices, containing all of the documents and references the Bidder is required to attach, will be submitted through the Dekel Tender System as detailed above. The Deadline for Submission of Proposals is on **30/6/2021** no later than 15:00 (**Israel local time**), the Dekel Tender System will be locked, and proposals will no longer be accepted for submission.

4.2 As part of the response to the request, it is required to provide the following information :

4.2.1 **General information about the respondent.**

4.2.2 **Relevant information such as presentations, movies, photos, documents, experiments, etc. that the presenter considers relevant.**

4.2.3 **The following is the list of mandatory information required:**

- **Technical specification of the road marking material. The specifications should include information on the chromaticity co-ordinates, luminance factor, retroreflection, glass beads/antiskid aggregates and any other information pertinent to the technical specification of the road marking material .**
- **Application instructions.**
- **Safety data sheet (MSDS).**
- **Technical specifications of the glass beads/antiskid aggregates.**
- **Equipment for application.**
- **Image / sample of the road marking material.**
- **Laboratory tests (if any) that include tests of the material itself as well as durability tests.**

5. Contradictions and/or Discrepancies

5.1 Insofar as it is the Bidder's belief that the RFI Documents contain contradictions or ambiguities, the Bidder may appeal in writing up no later then **9/6/2021** at 15:00 (**Israel local time**), via the designated tab in the Dekel Tender System, while providing identification and contact information for the purpose of detailing the clarifications, contradictions, errors, discrepancies or any doubts which may be found in relation to the precise meaning of each section or any detail whatsoever of the Tender Documents.

5.2 It should be clarified that for the purpose of submitting any clarifying questions, it is necessary to register in the Dekel Tender System as specified in Section 3 above.

5.3 The Company's answers to Bidders' queries and inquiries will be uploaded to the Tender page in the Dekel Tender System, under the tab of the Tender, and will be

available for Bidders' reference together with the Tender Documents. Bidders are obligated to keep current with the Company's publications in connection with the Tender.

- 5.4 It is clarified that the Company's answers to the Bidders' inquiries concerning clarifications and/or modifications, will be made without naming the inquiring Bidder.
- 5.5 It should be emphasized that at the Deadline for Submission of Clarification Questions, the Dekel Tender System will be locked to prohibit submission of subsequent questions for clarification. Clarification questions should not be submitted in any way other than as outlined above and through the said Dekel Tender System.
- 5.6 Bidders that will not act in the manner above stated, will be prevented from making any argument(s) concerning improbability and/or ambiguity, errors, discrepancies and mistakes, etc.
- 5.7 The Company is entitled to not address inquiries for clarification and/or objections, or any part thereof, or to rephrase inquiries, and to convey its response to all the Bidders (without naming the Bidder who has contacted them), all at its sole discretion. Failure of the Company to address any inquiry until the Deadline for Submission of Proposals, will be viewed as a rejection of the Bidder's inquiry.

6. General instructions

- 6.1 The capabilities presentation can be done in Hebrew or English.
- 6.2 This request is **not an invitation to bid and it is not part of a tender process and / or any competitive procedure** and therefore does not create any obligation towards any of the respondents therewith. The request is intended for receipt of information only, in accordance with what is stated therewith. Following the receipt of the information, the Company will consider its follow-up actions regarding the request, if any.
- 6.3 This request does not constitute any obligation of the Company to publish a tender and / or a competitive procedure regarding the subject request, or to include one or other party in a future tender, if published. Furthermore, this procedure does not create an obligation or promise towards the participants and / or any person and / or any entity.
- 6.4 Responding to this Request does not confer an advantage in an aforesaid competitive tender / procedure, if published, and does not guarantee compliance with the threshold conditions or any other conditions regarding such a competitive tender / procedure.
- 6.5 If the Company decides to publish such a tender and / or competitive procedure, it will be entitled to require in the tender / competitive procedure services

different from those presented in this request, and will be entitled to impose additional or different conditions than those presented in this request, at its discretion.

- 6.6 The Company shall be entitled to request clarifications, completions, or additional information from anyone who has responded to this Request or from other entities, as it sees fit.
- 6.7 Any respondent to this Request declares that he agrees that the Company may make use of the information provided by him, in whole or in part, for the purposes of preparing a tender or for any other needs it deems appropriate.
- 6.8 The respondents to the Request are required to list what data and /or documents included in their response constitutes a trade secret, in their opinion. Subject to any applicable law, the Company will keep the information confidential and will not disclose and/or transfer any information that constitutes a trade secret that will come into its possession in the framework of this Request, except for Ayalon Highways employees and consultants on its behalf, to whom such information is necessary for the purpose of carrying out their duties.
- 6.9 The respondent to this Request declares that they waive in advance any argument, including in the matter of intellectual property, and / or a claim and / or demand from the Company or anyone on its behalf and / or from the Ministry of Transportation regarding the information included in the response to this Request or in the follow-up clarifications it, if any.
- 6.10 All expenses involved in preparing and submitting the response to this Request are the sole responsibility of the respondents and at their own expense. The respondents shall not be entitled to any compensation or indemnification or refund or payment of any kind from the Company in respect of the submission of the response to this Request, and the Company shall have no liability in this regard.
- 6.11 A respondent submitting information in response to this Request undertakes that within the framework of the information submitted and / or any use thereof, no rights, including copyrights or trade secrets of a third party, will be infringed. The respondent alone will be liable for any demand and / or claim arising from an argument that the rights of such a third party have been infringed.
- 6.12 The Company is entitled to cancel this Request at any stage for any reason.
- 6.13 It should be clarified that Ayalon Highways does not guarantee to select any technology that will be offered in the framework of this Request, and that it will be entitled to not implement any technology that will be offered in the framework of this Request, and everything at its sole discretion.
- 6.14 It should be clarified that any marking material that meets the requirements of the standard and the relevant guidelines will be brought to the approval of the Inter -



Ministerial Committee on Traffic and Safety Devices before it will be used on the Israeli roads .

Appendix A - Profile of respondent to the Request for Information

Name: _____ Corporation / Certified Dealer No.: _____

Year of establishment: _____ Address: _____

Contact person on respondent's behalf: _____ Position: _____

Telephone: _____ Email: _____

Names of the respondent's owners:

1. _____ ID no. _____

2. _____ ID no. _____

3. _____ ID no. _____

(If the owner of the corporation is a corporation, the owner of that corporation must be specified)

Areas of activity: _____

Main technologies constituting the basis of respondent's activity:

Entities controlling the respondent (entities that hold 25% or more of the control on the respondent) _____

Key personnel - CEO, VPs and development personnel:

* Additional documents and any relevant information can be attached.

Appendix B - Declaration Concerning the Terms of Participation in the Tender as part of the "Dekel Tender" System.

1. I confirm that I have carefully read all of the tender documents above and that I know that all the tender documents, **including this appendix**, without exception, are an inseparable part of the tender documents and all that it implies.
2. This Tender is managed through the internet website "**Dekel Tenders**" at the address <https://bids.dekel.co.il/ayalon>. (hereinafter: "the **website address**").
3. Herein are the stages of the Tender, as these are managed by this website, as follows:
 - 3.1. Registration on the "Dekel Tenders" website and issuance of a personal username and password for the participant. It should be emphasized that Bidder entry will be executed solely utilizing the username and password.
 - 3.2. Review of the Tender Documents and the threshold conditions.
 - 3.3. Registration to the Tender through the website and reception of documentation (return delivery) confirming that the participant has registered to the Tender.
 - 3.4. The procedure for joining: All of the Tender Documents, including the appendices and other pertinent documentation, should be downloaded from the designated tab. The Bidders will print and fill out all of the Tender Documents as per the guidelines detailed in the Terms of Tender Volume. After filling out and signing the documents and adding all of the required documents, the documentation is to be scanned at a quality that enables comfortable reading and submits them in the designated tab according to the following classification: Compulsory documents, a response to clarification questions (will be published according to the date set for the response), additional announcements and elective documents.

It should be clarified and emphasized that the automated Dekel Tender System does not examine the content of the document submitted or its compatibility to tender requirements, and it is solely the Bidder's responsibility to do so.
 - 3.5. The system will sign, encode and send the Bidder's proposal in an encoded manner such that any other entity cannot observe it before the date has arrived by opening the Tender Proposal Inbox by the Tenders Committee and/or those authorized on its behalf.
 - 3.6. Sending a single proposal. It should be clarified and emphasized that the submission of several proposals by the same participant will not be allowed **and that after submitting the Bidder's proposal through the Dekel Tender System, the system will be locked to prevent the submission of additional documents by the Bidder.**
4. **For any question, please contact Mrs. Katya Goldovich from the Dekel Co. by telephone +972-(0) 4-8145400 Ext. 1 or by email: service@dekel.co.il.**
5. I hereby declare that I have understood all of the documents on their particulars and that the place of execution of the contract, terms of access, and any other factors affecting or likely to affect it, including concerning the extent of the expenses that are known and recognized by me and that accordingly I have based my proposal.



AYALON
HIGHWAYS
ANY WAY YOU CHOOSE

Participant's Name: _____

Address: _____ **Tel:** _____

Contact Person: _____

Signature & Stamp: _____

Date: _____