Republic of North Macedonia

Ministry of Transport and Communications

## Western Balkans Trade and Transport Facilitation Project

## CLARIFICATION NO. 1

## To the Request for Bids for the procurement of

## Deployment of Intelligent Transport Systems (ITS) on highway A1 (Corridor X) - South Part

## – Interchange Veles South to Border crossing Bogorodica

## Ref. No.: WBTTFP-8929-MK-212A-RFB

Issued on date: November 03, 2023

To all prospective Suppliers and to all firms that have obtained the RFB documents

Dear All,

With reference to the question raised by the prospective Bidders and pursuant to the issued RFB for the stated subject, please find enclosed the Clarification Table below with the questions and answers.

**Note: The Bidder should use revised Price schedule 1-6 for preparing their Bids. The revised Price schedule 1-6 is attached to this Clarification no.1 as excel document named as „revised Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A“. The „Price schedule 7-12 - Deployment of ITS - WBTTFP - 212A“ submitted in Annex 1 remain unchanged.**

**Please take into consideration Amendment no. 2 issued on October 19, 2023.**

**Please take into consideration Amendment no. 3 issued together with this Clarification no. 1.**

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|  | ***CLARIFICATION TABLE*** |  |  |  |  |
| **No. of Question** | **Question** | **Ref. to the BD (RFB)** | **No. of Answer** | **Answer** | **Category:**  **Clarification or Amendment** |
| 1 | **Q:**  Which existing systems will be connected / implemented via UTMC and UNE protocol? | RFB - Section VII – Employer’s Requirements – pages 114-115 | 1 | **A:**  There is **no any** existing Intelligent transport system on the Highway A1 (Corridor X) that should be connected/implemented via UTMC and UNE protocol. | Clarification |
| 2 | **Q:**  Existing SCADA Tunnel system: Please give us more information about interface, requirements for integration and what exactly is expected to be integrated? | RFB - Section VII – Employer’s Requirements – pages 114-115 | 2 | **A:**  The existing Tunnel control and management system for Demir Kapija tunnels in the Tunnel Control Center in Negotino is working as separate system and **is not** part of this bidding documentation. | Clarification |
| 3 | **Q:**  If a subcontractor of a JV member possess a License A or Confirmation for performance of construction works issued by Ministry of transport and communications and / or License for performance of technical security services issued by Ministry of Interior of the Republic of North Macedonia, does it automatically means that JV member has these. Basically, JV member would have the licenses thru its subcontractor? | RFB - Section II - Bid Data Sheet, Part C. Preparation of Bids, item ITB 11.1 (j) - – Item 4. Documentary evidence: | 3 | **A:**  Take in consideration as is stated in Section II - Bid Data Sheet, Part C. Preparation of Bids, in item ITB 11.1 (j), in no. 4. Documentary evidence:  - License A or Confirmation issued by Ministry of transport and communications:  Note to Bidders: According to the national legislation, the awarded Bidder (or JV) should obtain and possess a License A or Confirmation for performance of construction works issued by Ministry of transport and communications, prior to Contract Signing. Copies of the required License A or Confirmation should be submitted to Employer prior to Contract signing.  **The single Bidder or JV may nominate sub-contractor** with License A for performance of construction works, as a part of deployment of ITS Systems. The nominated sub-contractor must be stated in the Bid, must have signed Contract for engagement with the Bidder or JV (all members) and copy of License A must be submitted in the Bid.  **The nomination of sub-contractor does not exclude requirement for obtain and possess License A or Confirmation for Single Bidder, as well as for Lead member of JV.**  Copies of the required License A or Confirmation should be submitted to Employer prior to Contract signing.  **Please see Amendment no. 3.**  - License for performance of technical security services **is changed – amended as follow**:  Note to Bidders: In case of single Bidder, the Bidder must possess License for performance of technical security services issued by Ministry of Interior of the Republic of North Macedonia, or the Bidder must nominate sub-contractor with License for performance of technical security services. **The nominated sub-contractor must be stated in the Bid, must have signed Contract for engagement with the Bidder and copy of License must be submitted in the Bid.**  In case of JV, at least one member of the JV must possess License for performance of technical security services issued by Ministry of Interior of the Republic of North Macedonia, or the JV must nominate sub-contractor with License for performance of technical security services. **The nominated sub-contractor must be stated in the Bid, must have signed Contract for engagement with the JV (all members) and copy of License must be submitted in the Bid.**  Original of the required License should be submitted to Employer by awarded Bidder (or JV) prior to Contract signing.  **Please see Amendment no. 2.** | **Amendment no. 2.**  **and**  **Amendment no. 3.** |
| 4 | **Q:**  We are addressing you regarding IP rating of the traffic counting devices (items 9 and 10 of the Price schedule 1). Tender request is IP67 which means Dust-tight and Immersion, up to 1 meter (3 ft 3 in) depth. Hereby, we refer to the latter one. Since these devices will be installed on the gantries, there will be no possibility to be immerged into the water, the worst case scenario is Splashing of water which refers to rating 4 (in total it would be IP64).  Furthermore, the most renowned producers of such equipment producing the devices which are with IP64 rating (see attached datasheets for the devices which are compliant to the ones requested by position 10 of the PS1).  Finally, IP67 devices are more expensive than IP64 which would mean higher costs at any stage – primarily enquiry thru the tender and later maintenance.  Having said above, we would like to ask you to reconsider the IP rating request and lower it to IP64, according to the worldwide good engineering practice. | Section VII – Employer’s Requirements -Detailed Technical Specifications Items no. 6 and 7,  Price schedule no. 1, Items 9 and 10 | 4 | **A:**  Requirement for stated devices below, for IP 67 mechanical protection:  RDT – under Item no. 6 and  Price schedule no. 1, under Items 9  • Mechanical: IP 67, water tight,  RDT – under Item no. 7 and  Price schedule no. 1, under Items 10  • Mechanical: IP 67, water tight,  **are changed in:**  **• Mechanical: minimum IP 64, splashing of water**  **Please see Amendment no. 2.**  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | **Amendment** |
| 5 | **Q:**  Is an open consortium acceptable to the employer (the tender always mentions JV)? | RFB - Section I – Instruction to Bidders – item 4. Eligible Bidders  - point 4.1  and  item 11. Documents Comprising the Bid – point 11.2  and  BDS-ITB 21.3 | 5 | **A:**  As per item 4. Eligible Bidders  - point 4.1:  *“A Bidder may be a firm that is a private entity, a state-owned enterprise or institution subject to ITB 4.6, or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the Bidding process and, in the event the JV is awarded the Contract, during contract execution. Unless specified in the BDS, there is no limit on the number of members in a JV.“*  and  As per item 11. Documents Comprising the Bid – point 11.2:  *“In addition to the requirements under ITB 11.1, Bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Bid shall be signed by all members and submitted with the Bid, together with a copy of the proposed Agreement.“*  **In case of a Consortium all above stated should be applied. The Consortium must have Consortium Agreement and must nominate a representative (Power of Attorney – see BDS-ITB 21.3).** | Clarification |
| 6 | **Q:**  Follow Up question to "Open Consortium ": Must the Consortium be registered in North Macedonia? | RFB | 6 | **A:**  **In case of single Bidder, JV or Consortium, it is as per their own discretion.** | Clarification |
| 7 | **Q:**  Follow Up question to "Open Consortium ": Which documentation shall be provided in lieu of JV documentation to meet your requirements as stated in the tender? | RFB - Section I – Instruction to Bidders – item 4. Eligible Bidders  - point 4.1  and  item 11. Documents Comprising the Bid – point 11.2  and  BDS-ITB 21.3 | 7 | **A:**  **As per stated above, in answer no.5, the Consortium must have all documentation as is required for JV.** | Clarification |
| 8 | **Q:**  We were carved out from another company in 2021, as part of which we were in the ITS business for decades. Due to this carve out, we do not have audited finance reports prior to 2022 (our fiscal year covers Oct-1 until Sep-30). Can you please advise how we shall proceed under these circumstances and which documentation we shall submit in lieu of audited financial reports. | Section III – 2. Qualification - 3 Financial Situation | 8 | **A:**  **Please follow and respond to the requirements stated in Section III – 2. Qualification - 3 Financial Situation – item 3.1, 3.2 and 3.3.** | Clarification |
| 9 | **Q:**  Can you confirm that registration of engineers need not be done with the Chamber of Engineers and Architects in North Macedonia, but registration with the corresponding orginasation in another european country is acceptable? | Section VII – Employer’s Requirements -Contractor’s Representative and Key Personnel | 9 | **A:**  According to the Article 42, paragraph 2 and paragraph 5 of the Law on Construction, a foreign person who has an authorization from another country may carry out works on design, revision, implementation and supervision of constructions in the Republic of N. Macedonia if the authorization is confirmed by the Chamber of Certified Architects and Engineers.  The confirmation of authorization is carried out by the Commission, which determines whether the authorization of a foreign person corresponds to the authorizations prescribed by this law.  If the Commission determines that the authorization corresponds, it issues a Confirmation of the authenticity and the type of authorization that the foreign person has acquired in the Republic of N. Macedonia. | Clarification |
| 10 | **Q:**  According to the law on private security and the rules of the chamber for private security, the Ministry of Internal Affairs does not issue a license for technical security to foreign companies and the chamber for private security does not issue a license to natural persons who are not citizens of the Republic of North Macedonia and do not have a residence in the Republic of North Macedonia. From here it can be said that, in order to satisfy the condition for possessing a license for technical security, there must be a subcontractor or a specialized subcontractor who is a legal entity in the Republic of North Macedonia and holds the license for both individuals and legal entities. Because the requirement cannot be proved by a foreign legal entity, it is logical to have nominated local subcontractors or specialized subcontractors. This requirement discriminates individual foreign companies from submitting bids for this tender procedure. If this is correct can the foreign company sign an agreement for technical support or subcontractor agreement with a local company that satisfies this requirement, but does or does not satisfy other requirements? | Section II - Bid Data Sheet, Part C. Preparation of Bids, item ITB 11.1, no. 4. Documentary evidence | 10 | **A:**  Take in consideration as is stated in Section II - Bid Data Sheet, Part C. Preparation of Bids, in item ITB 11.1 (j), in no. 4. Documentary evidence:  - License for performance of technical security services **is changed – amended as follow**:  Note to Bidders: In case of single Bidder, the Bidder must possess License for performance of technical security services issued by Ministry of Interior of the Republic of North Macedonia, or the Bidder must nominate sub-contractor with License for performance of technical security services. **The nominated sub-contractor must be stated in the Bid, must have signed Contract for engagement with the Bidder and copy of License must be submitted in the Bid.**  In case of JV, at least one member of the JV must possess License for performance of technical security services issued by Ministry of Interior of the Republic of North Macedonia, or the JV must nominate sub-contractor with License for performance of technical security services. **The nominated sub-contractor must be stated in the Bid, must have signed Contract for engagement with the JV (all members) and copy of License must be submitted in the Bid.**  Original of the required License should be submitted to Employer by awarded Bidder (or JV) prior to Contract signing.  **Please see Amendment no. 2.** | **Amendment** |
| 11 | **Q:**  Can the stated personnel requirements - License A for performance and License A for the performance of structures of the first category for the legal entity, be proven by a subcontractor or specialized subcontractor who meets the required conditions? If this is correct can the foreign company sign an agreement for technical support or subcontractor agreement with a local company that satisfies this requirement, but does or does not satisfy other requirements? | Section II - Bid Data Sheet, Part C. Preparation of Bids, item ITB 11.1 | 11 | **A:**  As stated in ITB 11.1 (j) - Item 4. Documentary evidence:  - License A or Confirmation issued by Ministry of transport and communications:  Note to Bidders: According to the national legislation, the awarded Bidder (or JV) should obtain and possess a License A or Confirmation for performance of construction works issued by Ministry of transport and communications, prior to Contract Signing. Copies of the required License A or Confirmation should be submitted to Employer prior to Contract signing.  **The single Bidder or JV may nominate sub-contractor** with License A for performance of construction works, as a part of deployment of ITS Systems. The nominated sub-contractor must be stated in the Bid, must have signed Contract for engagement with the Bidder or JV (all members) and copy of License A must be submitted in the Bid.  **The nomination of sub-contractor does not exclude requirement for obtain and possess License A or Confirmation for Single Bidder, as well as for Lead member of JV.**  Copies of the required License A or Confirmation should be submitted to Employer prior to Contract signing.  **Please see Amendment no. 3.** | **Amendment** |
| 12 | **Q:**  The “Authorization A for performance of electrical or civil works issued by Chamber of Authorized Engineers and Architects” for the performance for the key personnel is a discriminatory requirement for a foreign company because such licenses are not obtained by some expert engineers in companies from the ITS field or by the chambers or ministries in their countries. What should foreign companies submit as documentation for their key personnel to satisfy this requirement? | Section VII – Employer’s Requirements -Detailed Technical Specifications Contractor’s Representative and Key Personnel | 12 | **A:**  According to the Article 42, paragraph 2 and paragraph 5 of the Law on Construction, a foreign person who has an authorization from another country may carry out works on design, revision, implementation and supervision of constructions in the Republic of N. Macedonia if the authorization is confirmed by the Chamber of Certified Architects and Engineers.  The confirmation of authorization is carried out by the Commission, which determines whether the authorization of a foreign person corresponds to the authorizations prescribed by this law.  If the Commission determines that the authorization corresponds, it issues a Confirmation of the authenticity and the type of authorization that the foreign person has acquired in the Republic of N. Macedonia. | Clarification |
| 13 | **Q:**  Can key personnel be engaged through a Technical Cooperation Agreement by the bidder. If this type of engagement is possible, should the personal state be proved for the same persons? | Section VII – Employer’s Requirements -Detailed Technical Specifications Contractor’s Representative and Key Personnel | 13 | **A:**  **Subcontractor engaged with Technical Cooperation Agreement is not a single Bidder or member of JV. Key personnel should be engaged by single Bidder or by JV that will submit the Bid.** | Clarification |
| 14 | **Q:**  Please clarify what is the meaning of a specialized subcontractor? What is the difference between a subcontractor and a specialized subcontractor? Where and how (specifically in which document/form) should the specialized subcontractors be listed? | Section III - Evaluation and Qualification Criteria - 2. Historical Contract Non-Performance | 14 | **A:**  Term specialized subcontractors is mentioned in the Section III - Evaluation and Qualification Criteria - 2. Historical Contract Non-Performance - 2.5 Declaration: Environmental and Social (ES) past performance, **and refers to ES subcontractors in regard to eventual previous non-performance.**  Specialized subcontractors should be listed in Section IV - Bidding Forms – Form CON - 3 - Environmental and Social Performance Declaration, as is stated in the Form CON – 3.  Subcontractors should be listed in the Section IV - Proposed Subcontractors for Major Items Installation Services. | Clarification |
| 15 | **Q:**  In the tender documentation there is always a mention of Joint Venture (JV), is an open consortium acceptable? | RFB - Section I – Insruction to Bidders – item 4. Eligible Bidders  - point 4.1  and  item 11. Documents Comprising the Bid – point 11.2  and  BDS-ITB 21.3 | 15 | **A:**  As per item 4. Eligible Bidders  - point 4.1:  *“A Bidder may be a firm that is a private entity, a state-owned enterprise or institution subject to ITB 4.6, or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the Bidding process and, in the event the JV is awarded the Contract, during contract execution. Unless specified in the BDS, there is no limit on the number of members in a JV.“*  and  As per item 11. Documents Comprising the Bid – point 11.2:  *“In addition to the requirements under ITB 11.1, Bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Bid shall be signed by all members and submitted with the Bid, together with a copy of the proposed Agreement.“*  **In case of Consortium all above stated should be applied. Consortium must have Consortium Agreement and must nominate a representative (Power of Attorney – see BDS-ITB 21.3).** | Clarification |
| 16 | **Q:**  There are inconsistencies between the Technical Documentation and the Price Schedules 1-12. Which documentation should be taken as valid for our bid? | **BDS-ITB 21.1.**  and  Section VII - Employer’s Requirements – Specification - Detailed Technical Specifications - Required and Offered (**major items of supply**)  and  Price Schedules 1-12 | 16 | **A:**  **The Bidder should submit in the Bid filled Price Schedules 1-12 in readable .pdf format and Price Schedules in separate excel format as per BDS-ITB 21.1.**  Also, the Bidders should submit filled Table from Section VII - Employer’s Requirements – Specification - Detailed Technical Specifications - Required and Offered (**major items of supply**)  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification |
| 17 | **Q:**  Which is the total project budget for both Excel tables: “Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A” and “Price schedule 7-12 - Deployment of ITS - WBTTFP - 212A”? | Detailed Technical Specifications - Required and Offered (**major items of supply**)  Price schedule 1-6 and Price schedule 7-12 | 17 | **A:**  **Please provide total price of your Bid as per your own calculation of costs.** | Clarification |
| 18 | **Q:**  Book 1: 6.3.1 Combination detector for lane selective traffic data  • Ultrasound: Frequency 50kHz, Pulse Frequency 10 – 30 Hz  Question: Can you please confirm that an Ultrasound frequency of 40KHz is acceptable provided that the function of the detector is not affected. | Section VII – Employer’s Requirements -Detailed Technical Specifications Items no.7  Price schedule no.1 Traffic part, Item no. 10 | 18 | **A:**  Based on one characteristic "Ultrasound frequency of 40KHz" we cannot conclude anything about the proposed product and his functionality.  **Please follow and respond to the requirements stated in the issued RFB and Price schedules.**  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification |
| 19 | **Q:**  Book 1: 6.3.1 Combination detector for lane selective traffic data  • Mechanical: IP 67, water tight,  Question: Can you please confirm that IP 64 is acceptable? All major supplier in the market are supporting IP 64, since the detectors are mounted outside from tunnels and pressure washing is not required for outside installations. IP64 is suitable for the conditions in outside applications." | **Section VII – Employer’s Requirements -Detailed Technical Specifications Items no. 6 and 7,**  **Price schedule no. 1, Items 9 and 10** | **4** | **A:**  **Requirement for stated devices below, for IP 67 mechanical protection:**  **RDT – under Item no. 6 and**  **Price schedule no. 1, under Items 9**  **• Mechanical: IP 67, water tight,**  **RDT – under Item no. 7 and**  **Price schedule no. 1, under Items 10**  **• Mechanical: IP 67, water tight,**  **are changed in:**  **• Mechanical: minimum IP 64, splashing of water**  **Please see Amendment no. 2.**  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | **Amendment** |
| 20 | **Q:**  Book 1: 6.3.1 Combination detector for lane selective traffic data  Specific Technical Requirements  • Mikrowave: Radar K-Band 24 GHz,  • Detection zone: 6 ,  • Zone: 2-7m. and following.  Question: All those specific requirements after the "Fig. 19. Typical two lane installation (2 detectors)" seem to be copy from chapter 6.3.2.  Please confirm that they are not valid in Chapter 6.3.1 and do not apply to side radars | Section VII – Employer’s Requirements -Detailed Technical Specifications Items no. 6 and 7, and Price schedule 1-6 - sheet no.1 -Traffic part - Items no. 9 and 10 | 20 | **A:**  In 6.3.1. the correct technical characteristics are before the picture. The characteristics behind the picture are from chapter 6.3.2.  Please take in consideration Section VII – Employer’s Requirements - Detailed Technical Specifications Items no. 6 and 7, and revised Price schedule 1-6 – sheet no. 1 - Items no. 9 and 10 (see answer no. 4 and no. 19).  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification |
| 21 | **Q:**  Book 1: 6.3.1 and 6,3.1 Classification: open protocols that refers to one whose definition is freely accessible to both companies and users (TLS 2012; NTCIP; UTMC; UNE; MODBUS; or other open protocol without limiting), detector operated in Frontfire mode.  Question: we assume that one dedicated protocol can be chosen between the supplier for detectors and TCC system. Not all are needed by the selected traffic systems. Most probably we will use TLS2012 or NTCIP. Please confirm. | Section VII – Employer’s Requirements -Detailed Technical Specifications Items no. 6 and 7, and Price schedule 1-6 - sheet no.1 -Traffic part - Items no. 9 and 10 | 21 | **A:**  Open protocols that refers to one whose definition is freely accessible to both companies and users (TLS 2012; NTCIP; UTMC; UNE; MODBUS; or other open protocol without limiting)  **The protocol should be the same for all elements in the traffic system.** | Clarification |
| 22 | **Q:**  Book 3: Chapter 2.1 the following class information is requested:  -------------------------------------  • traffic density – up to eight vehicle classes;  -------------------------------------  Also, measurements are performed separately by type of vehicle/traffic lane (category) as follows:  1. Passenger vehicles;  2. Passenger vehicles with a trailer;  3. Freight vehicles;  4. Lorries with a trailer and haulers;  5. Buses.  -----------------------------------  Question 1: The above request 8+1 classes and later in the document 5+1 classes. Please confirm the required TLS classes 5+1 or 8+1?  Question 2: To which detector type do the classes apply? 6.3.1 Combination detector for lane selective traffic data ; 6.3.2 Radar detector at in-out lanes of highways | Book 3: Chapter 2.1 and Detailed Technical Specifications Items no. 7, and Price schedule 1-6 - sheet no.1 -Traffic part - Items no. 10 | 22 | **A1:**  The required vehicle classes are: **8+1.**  The measurements have to be performed separately by type of vehicle/traffic lane (category) as follows:  1. Motorbike  2. Passenger vehicle  3. Light weight truck (van) (< 3,5t)  4. Passenger vehicle with trailer and light weight truck (van) with trailer  5. Truck (> 3,5t)  6. Truck with trailer  7. Tow truck  8. Bus, bus with trailer  X Unclassified vehicle  **A2:**  Vehicle classes/categories are determined on 6.3.1 - Combination detector for lane selective traffic data placed above the driving lane (mount on motorway gantry). | Clarification |
| 23 | **Q:**  Book 3: 1.1.2 Techniques of Serving and Visualization  The built-up system for control and management in “T1” and “T2” tunnels (SCADA system) will be integrated into the central system of the entire section as a sub-system. Integration will enable the built system to be maintained in its current function and implemented into the traffic system of the entire south sector.  AND 1.2 TASKS OF “PETROVEC” AND “NEGOTINO” TRAFFIC CONTROL CENTERS  NOTE: The existing System for control and management of tunnel structures in the “Negotino” Control Center of the Section Demir Kapija – Smokvica is to be integrated into the “Negotino” Traffic Control Center (TCC).  Question 1: Can you please provide a detailed list of elements, signals and use cases that need to be integrated.  Question 2: Are these two tunnels already prepared to be integrated with another system? If not, will the original supplier implement any necessary changes? | Book 3,  Chapter 1.1.2 Techniques of Serving and Visualization | 23 | **A1:**  The tunnels **are not part** of this project, and neither element lists nor signal lists were processed in the design documentation.  **A2:**  The integration of existing Tunnel control and management system in TCC Negotino **is not a part** of this project. | Clarification |
| 24 | **Q:**  Book 3, 1.2.3 SMS and E-Mail Reporting  To send SMS messages it is necessary to use the GSM SMS Modem connected to the LAN  network of the Traffic Management and Maintenance Center (CKS)  Question: Please confirm similar to the requirment 1 line above "To send e-mail messages it is necessary to use the SMTP protocol via the SMTP Mail Server of the Investor. " that the GSM SMS Modem and cost for mobile network provider will be provided by the Investor as well. | Book 3,  Chapter 1.2.3  SMS and E-Mail Reporting | 24 | **A:**  **GSM SMS Modem with telecom operator SIM card is obligation of the Bidder.** Covering the telecommunications mobile operator costs, after the completion and handover of the entire system, is a matter of agreement between the Investor and the telecom company that provides the telecommunications connection. | Clarification |
| 25 | **Q:**  Book 3, 4.7 Incidents  Incidents management software is the central component of the Traffic Information System for incident management (in a broad sense) or cases of major importance for traffic management in the competence zone of a traffic control center; it must have a built-in possibility for exchanging such information with a future superior (or subordinated) Center. This software has to meet requirements on upgrading the Traffic Information System’s functionality that refers to incident data exchange via DATEX II communication interface.  • Module(s) for incidents management should be performed to enable data exchange via DATEX II interface;    Question 1: this is the only mentioned use case for DATEX II. Please confirm that no other use cases for DATEX II must be considered for this tender.  Question 2: Are we correct to assume that the future superior (or subordinated) system implementation and integration will be handled by a separate tender? | Book 3,  Chapter 4.7 Incidents | 25 | **A1:**  DATEX II is foreseen as a universal standard for high-priority communication and information exchange of traffic related data. In the case of INCIDENT, but by incident it is understood: High priority information about a major incident, a planned tour due to works, an extraordinary tour due to a natural disaster and for communication between the traffic center of one country and the center of the neighboring country about this type of information. It is use in Module(s) for incidents management only.  **A2:**  Yes.  The Bidder should take in to consideration that the system integration of TCC Negotino will be needed in the near future with National traffic management center and National access point. | Clarification |
| 26 | **Q:**  Snow depth shall be considered for forecasting in the Weather Information Application (Table 4 Input measuring values). However, snow depth is not mentioned in the list of measurements. Shall such measurements be included in the station as well? | Section VII – Employer’s Requirements -Detailed Technical Specifications Items no. 8 and Price schedule 1-6 - sheet no.1 -Traffic part - Item no. 11 | 26 | **A:**  Measurements of the height of snow will not be included in the station, the road meteorological station gives information in the form of: snow falling and snow not falling. Assessment of the amount of snow on the roadway is made based on the inspection of the route by the Road maintenance services or via the video system. | Clarification |
| 27 | **Q:**  Book 1, 6.4.1 ….. The cabinet is mounted on a pole (bridge installation) up to 5 m height, on which various sensors for weather conditions measurement are installed too.)  What kind of mast is needed? Or mounting kit, if mast will be purchased separately?  Can you also please confirm that the cabinet shall be mounted at a height of 5m, since this is not a typical mounting height.  Are we correct to assume that all installations are on a bridge? How can we mount the pole without interfering with the structure of the bridge? | Section VII – Employer’s Requirements -Detailed Technical Specifications Items no. 8 and Price schedule 1-6 - sheet no.1 -Traffic part - Item no. 11 | 27 | **A:**  As is stated in the revised Price schedule 1-6 - sheet no.1 -Traffic part, in item 11, the Bidder should supply, delivery, installation, connection to full functionality of the entire system with all necessary work, accessories and parts corrosion-resistant (rust-free) aluminum tubing mast with 5m height, placed on Concrete Mounting Base with J-bolt according to equipment supplier recommendations.  Completed with meteorological station cabinet usual mounted at height of 1.3 to 1.8 m from the walkway.  According to the design layouts, all meteorological stations are placed in front of or behind the bridge, not on the bridge. So there is not interfering with the structure of the bridges in process of mounting the RWIS equipment. | Clarification |
| 28 | **Q:**  Book 1 6.4.1 specifies road surface sensors, while the price schedule in item 11 in PS1 also specifies "two road sonds".  Questions: Can you please clarify the number of required road sensors per location and direction of travel? | Book 1,  Chapter 6.4.1 and  Section VII – Employer’s Requirements -Detailed Technical Specifications Items no. 8 and Price schedule 1-6 - sheet no.1 -Traffic part - Item no. 11 | 28 | **A:**  Road sensors that are mounted in the pavement, are mounted in the overtaking lane on the central axis of the lane, for each direction of movement of the vehicle. The number of road sensors required is two pieces per location/meteorological station, since one road sensor goes in the direction of travel. | Clarification |
| 29 | **Q:**  Book 2 - TS (2022) 2.UPS pp. 102/140  The UPS system shall be provided for each location in order to ensure uninterruptible power supply in the case of power failure.  The UPS shall provide 48V DC output from the rectifier and built-in sealed gel batteries.  UPS not included in the BOQ, Please confirm if it required and let us know the Qty. | Book 2 - TS (2022) 2.UPS pp. 102/140 | 29 | **A:**  The installation of a UPS system **is not foreseen** with this project documentation and is **not required** in the RFB. | Clarification |
| 30 | **Q:**  Book 2 - TS (2022) 5.1.1 General power installation, pp. 114/140  All cables for telecommunication and power supply of traffic signaling and devices in the “Straža” tunnel and other tunnels are designed as low-flammable cables; cables for power supply of evacuation lighting must be fireproof cables.  Please identify the low-flemmable cables quantity and fireproof cables in the BOQ PS2 Electrical design as it's not clear | Book 2 - TS (2022) 5.1.1 General power installation, pp. 114/140 | 30 | **A:**  All cables for telecommunication and power supply of traffic signaling and devices in the “Straža” tunnel and other tunnels **are not subject** of this project and bidding document. | Clarification |
| 31 | **Q:**  Book 2 - TS (2022) 5.1.1 General power installation, pp. 115/140  Electrical power on chainage can not be suplied and a second power point is required.  Please clarify the statement does it mean a second source as generator or solar Energy source or UPS | Book 2 - TS (2022) 5.1.1 General power installation, pp. 115/140 | 31 | **A:**  A second power source **is not required**, the Investor is obliged to submit a request to the electricity distribution operator for obtaining a technical solution for a connection for each power point provided according to the project documentation to ensure a measuring point according to the national Grid Rules for distribution. | Clarification |
| 32 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, All items  Vendor list  Please provide Vendor list for all required items | Price schedule 1-6 - sheet no. 2 -Electrical part - all Items | 32 | **A:**  The Bidders should make market research since there is number of Vendors on the market for each of the required items. | Clarification |
| 33 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, Item no 1,  Supply, transport, installation and connecting to full functionality of steel galvanized strip for grounding (earthing), Fe-Zn 30x4 mm² into the created trench.  Specification and requirement of steel galvanized strip | Price schedule 1-6 - sheet no. 2 -Electrical part - Item no. 1 | 33 | **A:**  Flat condactor steel galvanized strip  Standard: EN IEC 62561-2  Material: Hot-dip galvanized sheet metal acc to: EN ISO 1461  Tensile strength: 290 N/mm2 - 510 N/mm2  Maximum electrical resistvity: 0,15 μΩm  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification |
| 34 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, Item no 2,  Supply, delivery, placing, connection to full functionality of the entire system with all necessary work, accessories and parts of power conductor P/F-Y 6 mm² for earthing of the zero conductor and earthing of the cable shields (for joint earthing procedure).  Specification and requirement of 6mm earthing conductor | Price schedule 1-6 - sheet no. 2 -Electrical part - Item no. 2 | 34 | **A:**  Standard electrical installation cable H07V-K or JUS mark: P/F  Standards: IEC 60227-3 (mark 227 IEC 02); DIN VDE 0281 part 3  1. Conductor: bare copper conductor, fine wired stranded,  class 5. acc. to IEC 60228 / HD 383 / DIN VDE 0295  2. Insulation: PVC compound TI1 acc. to IEC 60227-3 / HD 21.3 S3 / DIN VDE 00281 part 3  3. Conductor color identification: acc. to IEC 60446 i.e. EN 60446 (corresponding to DIN VDE 0293)  4. Behavior in fire: Flame retardant (self-extinguishing) cable acc. to IEC 60332-1 / EN 60332-1 (earlier EN 50265-2-1) / VDE 0482-332-1 (earlier VDE 0482-265-2-1, also DIN VDE 0472 part 804 test method B  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification |
| 35 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, Item no 3,  Supply, delivery, placing, connection to full functionality of the entire system with all necessary work, accessories and parts of cable clamps 6 mm² and preparation of finishing cable clamps for connection of connection of metal parts of the distribution box, earthing of metal parts of light traffic signals, video cameras and other electronic equipment on portals or cantilevers.  Please clarify if that cable clamp or cable lug, and if it it’s please provide us with the technical requirements of cable clamps and no of clamps required | Price schedule 1-6 - sheet no. 2 -Electrical part - Item no. 3 | 35 | **A:**  Cable lugs for cable termination on both side for connection to full functionality. in accordance to description in item 3 of PS2.  Cable lugs shall be in accordance with the requirements of the latest published recommendation of the following standards:  1. IEC 61238-1 Compression and Mechanical Connectors for Power Cables for Rated Voltages up to 30 kV (Um = 36 kV) - PART 1: Test Methods and Requirements.  2. IEC 60502 - 4 Power Cables with extruded Insulation and their Accessories for rated Voltage from 1 up to 30kV.  3. EN 12449 Copper and copper alloys. Seamless, round tubes for general purposes.  4. EN 13599 Copper and copper alloys Copper plate, sheet and strip for electrical purposes (DIN 48201).  5. EN 13600 Copper and copper alloys. Seamless copper tubes for electrical purposes (DIN 40500 part 2).  6. DIN 46235-1 Cable lugs; for compression connections, cover plate type, for copper conductors.  7. IEC 60228 Conductors of Insulated cables.  8. HD 620 S1 Distribution Cables with Extruded Insulation for MV.  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification |
| 36 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, Item no 4,  Supply, delivery, placing, connection to full functionality of the entire system with all necessary work, accessories and parts of power conductor P/F-Y 16 mm² for connection with earthing strips (for joint earthing.)  Please provide us with the technical specification of the 16mm conductor for example not limited to conductor type and insulation type…..etc | Price schedule 1-6 - sheet no. 2 -Electrical part - Item no. 4 | 36 | **A:**  Standard electrical installation cable H07V-K or JUS mark: P/F  Standards: IEC 60227-3 (mark 227 IEC 02); DIN VDE 0281 part 3  1. Conductor: bare copper conductor, fine wired stranded, class 5. acc. to IEC 60228 / HD 383 / DIN VDE 0295  2. Insulation: PVC compound TI1 acc. to IEC 60227-3 / HD 21.3 S3 / DIN VDE 00281 part 3  3. Conductor colour identification: acc. to IEC 60446 i.e. EN 60446 (corresponding to DIN VDE 0293)  4. Behaviour in fire: Flame retardant (self-extinguishing) cable acc. to IEC 60332-1 / EN 60332-1 (earlier EN 50265-2-1) / VDE 0482-332-1 (earlier VDE 0482-265-2-1, also DIN VDE 0472 part 804 test method B  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification |
| 37 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, Item no 5,  Supply, delivery, placing, connection to full functionality of the entire system with all necessary work, accessories and parts of cable clamps 16 mm² for connection of metal elements of the distribution box, earthing of the metal parts of changeable light signals, video boxes and other elements of the traffic info system.  Please clarify if that cable clamp or cable lug, and if it it’s please provided us with technical requirment, and aalso for the unit it described with meter so please identify the unit type Pc or meter | Price schedule 1-6 - sheet no. 2 -Electrical part - Item no. 5 | 37 | **A:**  Cable lugs for cable termination on both side for connection to full functionality in accordance to description in item 5 of PS2.  Cable lugs shall be in accordance with the requirements of the latest published recommendation of the following standards:  1. IEC 61238-1 Compression and Mechanical Connectors for Power Cables for Rated Voltages up to 30 kV (Um = 36 kV) - PART 1: Test Methods and Requirements.  2. IEC 60502 - 4 Power Cables with extruded Insulation and their Accessories for rated Voltage from 1 up to 30kV.  3. EN 12449 Copper and copper alloys. Seamless, round tubes for general purposes.  4. EN 13599 Copper and copper alloys Copper plate, sheet and strip for electrical purposes (DIN 48201).  5. EN 13600 Copper and copper alloys. Seamless copper tubes for electrical purposes (DIN 40500 part 2).  6. DIN 46235-1 Cable lugs; for compression connections, cover plate type, for copper conductors.  7. IEC 60228 Conductors of Insulated cables.  8. HD 620 S1 Distribution Cables with Extruded Insulation for MV.  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification |
| 38 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, Item no 7,  Supply, delivery, placing, connection to full functionality of the entire system with all necessary work, accessories and parts of power cable NYY 3x1,5 mm².  Please provide us with the technical specification of the 3\*1.5mm Cable for example not limited to conductor type and insulation type…..etc | Price schedule 1-6 - sheet no. 2 -Electrical part - Item no. 7 | 38 | **A:**  Standard electrical installation cable NYY or JUS mark: PP00  IEC type mark: Cu/PVC/PVC  standards: IEC 60502-1; DIN VDE 0276 part 603; MKS N.C3.220  1. Conductor: Cu, class 1 or 2 acc. to HD 383 / IEC 60228 / DIN VDE 0295  a) class 1: solid, round(RE) or sector (SE)  b) class 2: multi wire stranded, round (RM) or sector (SM); multi wire exceeding 50 mm 2 are compacted  2. Insulation: PVC compound DIV-4 acc. to HD 603.1  3. Filler: extruded elastomer or plastomer compound or wrapped thermoplastic tapes  4. Sheath: PVC compound DMV-5 acc. to HD 603.1  5. Conductor color identification: acc. to IEC 60446 i.e. EN 60446 (corresponding to DIN VDE 0293)  6. Behavior in fire: Flame retardant (self-extinguishing) cable acc. to IEC 60332-1 / EN 60332-1 (earlier EN 50265-2-1) / VDE 0482-332-1 (earlier VDE 0482-265-2-1, also DIN VDE 0472 part 804 test method B  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification |
| 39 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, Item no 8,  Supply, delivery, placing, connection to full functionality of the entire system with all necessary work, accessories and parts of power cables NYY 3x2,5 mm² .  Please provide us with the technical specification of the 3\*2.5mm Cable for example not limited to conductor type and insulation type…..etc | Price schedule 1-6 - sheet no. 2 -Electrical part - Item no. 8 | 39 | **A:**  Standard electrical installation cable NYY or JUS mark: PP00 IEC type mark: Cu/PVC/PVC  standards: IEC 60502-1; DIN VDE 0276 part 603; MKS N.C3.220  1. Conductor: Cu, class 1 or 2 acc. to HD 383 / IEC 60228 / DIN VDE 0295  a) class 1: solid, round(RE) or sector (SE)  b) class 2: multi wire stranded, round (RM) or sector (SM); multi wire exceeding 50 mm 2 are compacted  2. Insulation: PVC compound DIV-4 acc. to HD 603.1  3. Filler: extruded elastomer or plastomer compound or wrapped thermoplastic tapes  4. Sheath: PVC compound DMV-5 acc. to HD 603.1  5. Conductor color identification: acc. to IEC 60446 i.e. EN 60446 (corresponding to DIN VDE 0293)  6. Behavior in fire: Flame retardant (self-extinguishing) cable acc. to IEC 60332-1 / EN 60332-1 (earlier EN 50265-2- 1) / VDE 0482-332-1 (earlier VDE 0482-265-2-1, also DIN VDE 0472 part 804 test method B  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification |
| 40 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, Item no 9,  Supply, delivery, placing, connection to full functionality of the entire system with all necessary work, accessories and parts of power cables NYY 5x2,5 mm² .  Please provide us with the technical specification of the 5\*2.5mm Cable for example not limited to conductor type and insulation type with grounding or without …..etc | Price schedule 1-6 - sheet no. 2 -Electrical part - Item no. 9 | 40 | **A:**  Standard electrical installation cable NYY or JUS mark: PP00  IEC type mark: Cu/PVC/PVC  standards: IEC 60502-1; DIN VDE 0276 part 603; MKS N.C3.220  1. Conductor: Cu, class 1 or 2 acc. to HD 383 / IEC 60228 / DIN VDE 0295  a) class 1: solid, round(RE) or sector (SE)  b) class 2: multi wire stranded, round (RM) or sector (SM); multi wire exceeding 50 mm 2 are compacted  2. Insulation: PVC compound DIV-4 acc. to HD 603.1  3. Filler: extruded elastomer or plastomer compound or wrapped thermoplastic tapes  4. Sheath: PVC compound DMV-5 acc. to HD 603.1  5. Conductor color identification: acc. to IEC 60446 i.e. EN 60446 (corresponding to DIN VDE 0293)  6. Behavior in fire: Flame retardant (self-extinguishing) cable acc. to IEC 60332-1 / EN 60332-1 (earlier EN 50265-2- 1) / VDE 0482-332-1 (earlier VDE 0482-265-2-1, also DIN VDE 0472 part 804 test method B  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification |
| 41 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, Item no 10,    Supply, delivery, placing, connection to full functionality of the entire system with all necessary work, accessories and parts of power cables NYY 5x4 mm².  Please provide us with the technical specification of the 5\*4mm Cable for example not limited to conductor type and insulation type with grounding or without NAYY-J or NAYY-J …..etc | Price schedule 1-6 - sheet no. 2 -Electrical part - Item no. 10 | 41 | **A:**  Standard electrical installation cable NYY or JUS mark: PP00  IEC type mark: Cu/PVC/PVC  standards: IEC 60502-1; DIN VDE 0276 part 603; MKS N.C3.220  1. Conductor: Cu, class 1 or 2 acc. to HD 383 / IEC 60228 / DIN VDE 0295  a) class 1: solid, round(RE) or sector (SE)  b) class 2: multi wire stranded, round (RM) or sector (SM); multi wire exceeding 50 mm 2 are compacted  2. Insulation: PVC compound DIV-4 acc. to HD 603.1  3. Filler: extruded elastomer or plastomer compound or wrapped thermoplastic tapes  4. Sheath: PVC compound DMV-5 acc. to HD 603.1  5. Conductor colour identification: acc. to IEC 60446 i.e. EN 60446 (corresponding to DIN VDE 0293)  6. Behaviour in fire: Flame retardant (self-extinguishing) cable acc. to IEC 60332-1 / EN 60332-1 (earlier EN 50265-2- 1) / VDE 0482-332-1 (earlier VDE 0482-265-2-1, also DIN VDE 0472 part 804 test method B  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification |
| 42 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, Item no 11,  Supply, delivery, placing, connection to full functionality of the entire system with all necessary work, accessories and parts of power cables NYY 5x6 mm² .  Please provide us with the technical specification of the 5\*6mm Cable for example not limited to conductor type and insulation type with grounding or without NAYY-J or NAYY-J …..etc | Price schedule 1-6 - sheet no. 2 -Electrical part - Item no. 11 | 42 | **A:**  Standard electrical installation cable NYY or JUS mark: PP00  IEC type mark: Cu/PVC/PVC  standards: IEC 60502-1; DIN VDE 0276 part 603; MKS N.C3.220  1. Conductor: Cu, class 1 or 2 acc. to HD 383 / IEC 60228 / DIN VDE 0295  a) class 1: solid, round(RE) or sector (SE)  b) class 2: multi wire stranded, round (RM) or sector (SM); multi wire exceeding 50 mm 2 are compacted  2. Insulation: PVC compound DIV-4 acc. to HD 603.1  3. Filler: extruded elastomer or plastomer compound or wrapped thermoplastic tapes  4. Sheath: PVC compound DMV-5 acc. to HD 603.1  5. Conductor color identification: acc. to IEC 60446 i.e. EN 60446 (corresponding to DIN VDE 0293)  6. Behavior in fire: Flame retardant (self-extinguishing) cable acc. to IEC 60332-1 / EN 60332-1 (earlier EN 50265-2-1) / VDE 0482-332-1 (earlier VDE 0482-265-2-1, also DIN VDE 0472 part 804 test method B  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification |
| 43 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, Item no 12,  Supply, delivery, placing, connection to full functionality of the entire system with all necessary work, accessories and parts of power cables NAYY 4x16 mm² for power supply of traffic control stations and traffic control substations.  Please provide us with the technical specification of the 4\*16 mm Cable for example not limited to conductor type, insulation type with grounding or without NAYY-J or NAYY-J…..etc | Price schedule 1-6 - sheet no. 2 -Electrical part - Item no. 12 | 43 | **A:**  Standard electrical installation cable NAYY or JUS mark: PP00-A  IEC type mark: Al/PVC/PVC  standards: IEC 60502-1; DIN VDE 0276 part 603; MKS N.C3.220  1. Conductor: Al, class 1 or 2 acc. to HD 383 / IEC 60228 / DIN VDE 0295  a) class 1: solid, round (RE) or sector (SE)  b) class 2: multi wire stranded, round (RM) or sector (SM)  2. Insulation: PVC compound DIV-4 acc. to HD 603.1  • concentrically stranded cores, color marked acc. to HD 308 S2 / VDE 0293-308  • with or without protective green-yellow conductor  3. Filler: extruded elastomer or plastomer compound or wrapped thermoplastic tapes  4. Sheath: PVC compound DMV-5 acc. to HD 603.1  5. Conductor color identification: acc. to IEC 60446 i.e. EN 60446 (corresponding to DIN VDE 0293)  6. Behavior in fire: Flame retardant (self-extinguishing) cable acc. to IEC 60332-1 / EN 60332-1 (earlier EN 50265-2- 1) / VDE 0482-332-1 (earlier VDE 0482-265-2-1, also DIN VDE 0472 part 804 test method B  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification  **revised Price schedule 1-6 – sheet no.2 - Electrical part - Item no. 12** |
| 44 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, Item no 13,  Supply, delivery, placing, connection to full functionality of the entire system with all necessary work, accessories and parts of power cables NAYY 4x25 mm² for power supply of traffic control stations and traffic control substations.  Please provide us with the technical specification of the 4\*25 mm Cable for example not limited to conductor type, insulation type with grounding or without NAYY-J or NAYY-J…..etc | Price schedule 1-6 - sheet no. 2 -Electrical part - Item no. 13 | 44 | **A:**  Standard electrical installation cable NAYY or JUS mark: PP00-A  IEC type mark: Al/PVC/PVC  standards: IEC 60502-1; DIN VDE 0276 part 603; MKS N.C3.220  1. Conductor: Al, class 1 or 2 acc. to HD 383 / IEC 60228 / DIN VDE 0295  a) class 1: solid, round (RE) or sector (SE)  b) class 2: multi wire stranded, round (RM) or sector (SM)  2. Insulation: PVC compound DIV-4 acc. to HD 603.1  • concentrically stranded cores, colour marked acc. to HD 308 S2 / VDE 0293-308  • with or without protective green-yellow conductor  3. Filler: extruded elastomer or plastomer compound or wrapped thermoplastic tapes  4. Sheath: PVC compound DMV-5 acc. to HD 603.1  5. Conductor colour identification: acc. to IEC 60446 i.e. EN 60446 (corresponding to DIN VDE 0293)  6. Behaviour in fire: Flame retardant (self-extinguishing) cable acc. to IEC 60332-1 / EN 60332-1 (earlier EN 50265-2- 1) / VDE 0482-332-1 (earlier VDE 0482-265-2-1, also DIN VDE 0472 part 804 test method B  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification |
| 45 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, Item no 14  Supply, delivery, placing, connection to full functionality of the entire system with all necessary work, accessories and parts of power cables NAYY 4x35 mm² for power supply of traffic control stations and traffic control substations.  Please provide us with the technical specification of the 4\*35 mm Cable for example not limited to conductor type, insulation type with grounding or without NAYY-J or NAYY-J…..etc | Price schedule 1-6 - sheet no. 2 -Electrical part - Item no. 14 | 45 | **A:**  Standard electrical installation cable NAYY or JUS mark: PP00-A  IEC type mark: Al/PVC/PVC  standards: IEC 60502-1; DIN VDE 0276 part 603; MKS N.C3.220  1. Conductor: Al, class 1 or 2 acc. to HD 383 / IEC 60228 / DIN VDE 0295  a) class 1: solid, round (RE) or sector (SE)  b) class 2: multi wire stranded, round (RM) or sector (SM)  2. Insulation: PVC compound DIV-4 acc. to HD 603.1  • concentrically stranded cores, color marked acc. to HD 308 S2 / VDE 0293-308  • with or without protective green-yellow conductor  3. Filler: extruded elastomer or plastomer compound or wrapped thermoplastic tapes  4. Sheath: PVC compound DMV-5 acc. to HD 603.1  5. Conductor color identification: acc. to IEC 60446 i.e. EN 60446 (corresponding to DIN VDE 0293)  6. Behavior in fire: Flame retardant (self-extinguishing) cable acc. to IEC 60332-1 / EN 60332-1 (earlier EN 50265-2- 1) / VDE 0482-332-1 (earlier VDE 0482-265-2-1, also DIN VDE 0472 part 804 test method B  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification |
| 46 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, Item no 15  Supply, delivery, placing, connection to full functionality of the entire system with all necessary work, accessories and parts of signaling cable for outdoor application H07RN-F 2x1,5 mm for LED marjers.  The clinet shall provide all technical specification regarding to signaling cable | Price schedule 1-6 - sheet no. 2 -Electrical part - Item no. 15 | 46 | **A:**  Standard electrical installation cable H07RN-F or JUS mark: GN/J  ÖVE K 40 mark: GMSuö  standards: IEC 60245-4; DIN VDE 0282 part 4  1. Conductor: bare or tinned copper conductor, fine wired stranded, class 5 acc. to IEC 60228 / HD 383 / DIN VDE  0295  2. Insulation: rubber compound on ethylene-propylene basis (EPM, earlier: EPR), i.e. EI4 acc. to DIN VDE 0282 part 1  • cores: stranded in layers  • at some producers: resistant textile tape spirally wrapped around each core, acc. DIN VDE 0282 part 4  3. Sheath: rubber compound on poly-chloroprene basis (CR), i.e. acc. to. DIN VDE 0282 part 1:  a) at one-layer construction: EM2 compound  b) at two-layer construction, for thicknesses exceeding 2,4 mm: inner layer EM2 or EM3; external layer EM2  4. Conductor color identification: acc. to IEC 60446 i.e. EN 60446 (corresponding to DIN VDE 0293)  5. Behavior in fire: Flame retardant (self-extinguishing) cable acc. to IEC 60332-1 / EN 60332-1 (earlier EN 50265-2- 1) / VDE 0482-332-1 (earlier VDE 0482-265-2-1, also DIN VDE 0472 part 804 test method B  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification  **revised Price schedule 1-6 – sheet no.2 - Electrical part - Item no. 15** |
| 47 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, Item no 16  Supply, delivery, placing, connection to full functionality of the entire system with all necessary work, accessories and parts and connecting equipment or splice with other cable to full functionality of signaling cable 2YF(L)Y 4x2x0,8 mm for outdoor application for connection and transmission of data between traffic control stations and traffic control substations, VMS and measuring devices, as well as connection and transmission of data between the video system cameras and video distributors at shorter distances.  The client shall provide all technical specification regarding signaling cable, no of splices, and specs of splicing | Price schedule 1-6 - sheet no. 2 -Electrical part - Item no. 16 | 47 | **A:**  Standard electrical signaling cable A-2YF(L)2Y or Similar cables: ISE mark: TK 59  standards: DIN VDE 0816  1. Conductor: bare solid copper conductor of 0,4; 0,6 or 0,8 mm diameter  2. Insulation: PE (polyethylene) compound of type 2YI1, acc. to DIN VDE 0207  • per 4 conductors are twisted in star-quad, and 5 star-quads are stranded in a basic bundle  • 5 or 10 basic bundles are stranded in a main bundle, where the first basic bundle, serving for number coding, is spirally wrapped with a narrow red plastic tape, and all the other with a white tape  • core color marking is defined acc. to DIN VDE 0816 - conductors in star-quad are of the same color (red, green, grey, yellow or white), each conductor with a different mark with black rings  3. Filler: petroleum jelly - ensures longitudinal water- tightness  4. Separator: plastic tape  5. Protection: (ensures transversal water-tightness and protects electric screen against external impacts) aluminum tape 0,15 mm, longitudinally connected  with overlap, both sides coated with PE-copolymer and longitudinally spliced with the sheath - making together a laminated sheath  6. Sheath: PE-compound 2YM2 acc. to VDE 0207  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification |
| 48 | **Q:**  Price schedule 1-6 - Deployment of ITS - WBTTFP - 212A Colored-PS2 ELECTRICAL DESIGN-SOUTH, Item no 23  Supply, delivery, placing, connection to full functionality of the entire system with all necessary work, accessories and parts of clamps for power cable, for external installation for cable 6-35 mm²  Please clarify if that cable clamp or cable lug, and if it it’s please provide us with the technical requirements of cable clamps and no of clamps required | Price schedule 1-6 - sheet no. 2 -Electrical part - Item no. 23 | 48 | **A:**  Cable lugs for cable termination on both side for connection to full functionality in accordance to description in item 23 of PS2. Depending of cable type conductor (Cu or Al) will be used Copper or Alloy (Al./Cu) cable lug.  Cable lugs shall be in accordance with the requirements of the latest published recommendation of the following standards:  1. IEC 61238-1 Compression and Mechanical Connectors for Power Cables for Rated Voltages up to 30 kV (Um = 36 kV) - PART 1: Test Methods and Requirements.  2. IEC 60502 - 4 Power Cables with extruded Insulation and their Accessories for rated Voltage from 1 up to 30kV.  6. DIN 46235-1 Cable lugs; for compression connections, cover plate type, for copper conductors.  7. IEC 60228 Conductors of Insulated cables.  4. DIN 46329 tube dimension  5. DIN 48201, part 1 and DIN EN 50182 for non-tension connection of Al-cable  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | Clarification  **revised Price schedule 1-6 – sheet no.2 - Electrical part - Item no. 23** |
| 49 | **Q:**  Which quantity of spare parts shall be provided and/or have to be part of the offer? Please define all quantities that shall be part of the offer. | RFB – Section IX – PCC – GCC 7 | 49 | **A:**  As per PCC – GCC 7: “The Contractor agrees to supply spare parts for a period of years: Five (5) years“  There is no request for offering in the Bid particular spare parts, quantities for spare parts and prices for spare parts. The Contractor has obligation to provide spare parts for deployed ITS systems during 5 years period if requested by Beneficiary.  During DLP the Contractor is obliged to provide spare parts according warranty conditions. Out of DLP period, the requested spare parts with prices will be offered by Contractor upon each submitted request by the Beneficiary. The Beneficiary may accept or not offered spare parts with given prices. If they are not accepted, the Contractor do not have further obligation concerning particular request from Beneficiary. | Clarification |
| 50 | **Q:**  In connection with the spare parts to be provided for 5 years and the question of the transfer of risk, the question arises as to where the spare parts should be stored. Since the supplier is not responsible for the repair and maintenance according to the tender, it is difficult to estimate the quantity and the associated storage costs or throughput. |  | 50 | **A:**  As per PCC – GCC 7: “The Contractor agrees to supply spare parts for a period of years: Five (5) years“  There is no request for offering in the Bid particular spare parts and quantities for spear parts. The Contractor has obligation to provide spear parts for deployed ITS systems during 5 years period **if requested** by Beneficiary. | Clarification |
| 51 | **Q:**  Who will provide the ITSM (IT Service Management) System? |  | 51 | **A:**  The ITSM System is not part of the RFB documentation.  The ITSM System not exist in this moment. |  |
| 52 | **Q:**  In order to provide so called configuration list it will be necessary to evaluate respective details and to add such details and to maintain them in a system. Moreover such system, also referred to as ITSM System will also provide the monitoring and document respective maintenance and repair works. Does the employer has such ITSM System? |  | 52 | **A:**  The ITSM System is not part of the RFB documentation.  The Employer do not have ITSM System. |  |
| 53 | **Q:**  What ITSM System employer currently uses? |  | 53 | **A:**  There is no ITSM System currently in use. |  |
| 54 | **Q:**  The management and technical operation of Intelligent Transport Systems (ITS) can be efficiently designed, provided that the components of the system are accurately collected and entered into a system for documentation, also referred to as "asset management". Any changes, e.g. the replacement of components and/or the elimination of any errors, are then also documented accordingly in this so-called IT Management System (ITMS). In addition, an ITSM also enables monitoring of the systems in operation. Considering configuration List and/or "asset management" does the employer has such configuration digital list showing the details of the existing Scada system? Moreover question rises which ITSM System is currently used and will the employer grant access to the system enabling the bidder to document respective evaluation and installation of systems in accordance to the RFB? |  | 54 | **A:**  The ITSM System is not part of the RFB documentation. | Clarification |
| 55 | **Q:**  In case employer uses ITSM already, please speciafy producer of respective system and standard Interfaces to be provided to bidder enabling direct connect to supply configuration list, maintain it during the installation process and to document respective activities requested by employer. |  | 55 | **A:**  The ITSM System is not part of the RFB documentation. |  |
| 56 | **Q:**  Please be so kind and specify the exact requirements regarding training. | Section I ITB, 17. Bid Prices and Discounts pp 19 | 56 | **A:**  The basic operator training requirements are described below.  - Basic introduction to the software  - Going through all the software windows that are important to the operator.  - Setting up the software display.  - Software parameter setting.  - Involvement in real work.  - Supervision of the operator's work by the delivery person  - Analysis of mistakes made and Improving the way operators work etc. | Clarification |
| 57 | **Q:**  The RFB on p. 21, chapter 17.5 d also referes to materials, consumables and all matters and things of whatsoever nature, including operations and maintenance services, the provision of operations and maintenance manuals, training, etc.; hence question rises if bidder shall provide a training manual. Please specify what kind of operations and maintenance services shall be provided by the bidder and what will be the operations and maintenance period | Section I ITB, 17.5. (d)  and  Annex 1 - Price schedule 7-12 – Schedule 7 - Item 3 and Price schedule 7-12 - Schedule 9 – Item 1 | 57 | **A:**  As per Annex 1 - Price schedule 7-12 – Schedule 7 - Item no. 3 for Traffic part, the requirements are:  Implementation of as-built documentation with manuals for operation and maintenance in 6 copies on English and 6 copies on Macedonian language, and 2 CDs on both languages, and  Also, in Price schedule 7-12 - Schedule 9 – Item no. 1 for Traffic Information System (TCC Negotino), the requirements are:  Implementation of the documentation of the project of the performed condition with the manuals for operation and maintenance (set).  The Contractor is responsible for the operation and maintenance of the whole ITS systems in accordance to the prepared manuals and manufacturer instructions for maintenance of the equipment, during the Defect Liability Period. After DLP period the Beneficiary will contracted company for maintenance of ITS Systems which will work in accordance to already prepared and delivered maintenance manuals. | Clarification |
| 58 | **Q:**  Referring to the previous question, question rises if such training manual to be provided by the bidder may be provided in English language or has to be in Macedonian and Albanian language? | Section I ITB, 17.5. (d) pp 21  and  Annex 1 - Price schedule 7-12 – Schedule 9 - Item 9-12 | 58 | **A:**  Training manuals prepared in accordance to the requirements in Price schedule 7-12 – Schedule 9 – Item 9-12, should be in 6 copies on English and 6 copies on Macedonian language, and 2 CDs on both languages. | Clarification |
| 59 | **Q:**  The training itself regarding the training on ITS Systems for Staff of the employer is not specified. The bidder therefore kindly proposes to specify the tender documents to the effect that, for example, training documents in English must be provided electronically by the bidder as a pdf, as well as explanatory videos for the training of the client's employees. Furthermore, a list of questions should also be provided, which the employees can use as a source of information (FAQs) for learning the contents, as well as for questions during ongoing operation. In addition, it should be specified that the bidder will provide training, following the principle of "train the trainer", for selected employees of the client who have a good command of English and are able to use and convey the acquired knowledge for the training of the client's employees. Moreover question rises if such training requested in the RFB shall be provided once the system has been installed or is it required to train flucruating staff of the employer for a duration of five years. However it is also expected that the lifecycle of such system is in the range of 10 to 15 years. What will happen after five years? | Section VII Employers requirements pp 122 | 59 | **A:**  The Bidder should prepare the Training manuals in accordance to the requirements in Price schedule 7-12 – Schedule 9 – Item 9-12.  All training materials should be provided in 6 copies on English and 6 copies on Macedonian language, and 2 CDs on both languages.  The life cycle of the ITS systems is 10 (ten) years.  The Bidder should propose methodology for performing the Training and in accordance with training materials the training should be in English and Macedonian languages. The training will last up to Operational Acceptance of the ITS systems. | Clarification |
| 60 | **Q:**  In the RFB site Visits are mentioned: "The Bidder is advised to visit and examine the site where the Plant is to be installed and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid and entering into a Contract for the provision of Plant and Installation Services. The costs of visiting the site shall be at the Bidder’s own expense." As part of the requirements of the RFP, is not an exact survey and/or evaluation of the sites where any hardware, software, and communications equipment is to be installed, as well as the existing and to-be-installed roadside equipment, to be made and priced accordingly? And shouldn't the information obtained be entered into the ITSM system already in place or to be installed and used for ongoing documentation of the technical operation of the ITS facilities? | Section I ITB pp 15 | 60 | **A:**  The Bidder who intend to visit the site should first contact with Employer – PIU. The costs of visiting the site shall be at the Bidder’s own expense. There is no option to offer price for visiting of the site in the Bid. ITSM system did not exist. | Clarification |
| 61 | **Q:**  As the road side equipment to be installed needs to be connected to the power supply question rises if alongside and/or in the proximity of respective highway section of the current RFB already does exist a power circuit, which may be used for power connection? | Section IV bidding Form  pp 63, 68 | 61 | **A:**  Yes, the road side equipment which will be installed needs to be connected to the power supply. In the drawings are presented connection point. | Clarification |
| 62 | **Q:**  Even life cycle costs are mentioned several times the expected life cycle of the overall instalation by bidder is not mentioned. Please be so kind and define the required life cycle period. | Section II - BDS – ITB 35.4 (f)  Section III –Evaluation – item 1.2  Section VIII -  General Conditions of Contract, chapter 39 | 62 | **A:**  The life cycle of the provided product and services is 10 (ten) years. | Clarification |
| 63 | **Q:**  Maintenance is mentioned herewith but not defined regarding who has to perform maintenance work, will it be differntiated between remote services and onsite maintenance and repair works. Please be so kind and specify maintenance in more detail. | Section I ITB Chapter 35.2 b  pp 31 | 63 | **A:**  As per Annex 1 - Price schedule 7-12 – Schedule 7 - Item 3 the requirements are:  Implementation of as-built documentation with manuals for operation and maintenance in 6 copies on English and 6 copies on Macedonian language, and 2 CDs on both languages.  and  As per stated in Section VII – Employer´s Requirements:  During the Defect Liability Period (DLP) which start from the date of Operational Acceptance and last for 12 months, the Contractor is fully responsible for ensuring availability of the supplied equipment during this period, replace the equipment if/where required and ensuring performance requirements of whole ITS systems (hardware and software).  **The Contractor is responsible for the operation and maintenance of the whole ITS systems in accordance to the prepared manuals, during the Defect Liability Period.** | Clarification |
| 64 | **Q:**  It is mentioned, that the Employer shall provide sufficient, properly qualified operating and maintenance personnel. Does this means that maintenance will be fully provided by employer and bidder does not have to provide remote service such as third level support regarding the provided software components? | Section VIII - General Conditions of Contract, Chapter 10.5  pp 204 | 64 | **A:**  As per Annex 1 - Price schedule 7-12 – Schedule 7 - Item 3 the requirements are:  Implementation of as-built documentation with manuals for operation and maintenance in 6 copies on English and 6 copies on Macedonian language, and 2 CDs on both languages.  and  As per stated in Section VII – Employer´s Requirements:  During the Defect Liability Period (DLP) which start from the date of Operational Acceptance and last for 12 months, the Contractor is fully responsible for ensuring availability of the supplied equipment during this period, replace the equipment if/where required and ensuring performance requirements of whole ITS systems (hardware and software).  **The Contractor is responsible for the operation and maintenance of the whole ITS systems in accordance to the prepared manuals, during the Defect Liability Period.** | Clarification |
| 65 | **Q:**  Please specify the term "long-term availability" considering the obligation of the bidder to provide pricing of spare parts for 5 years. | chapter b pp 31 | 65 | **A:**  As per PCC – GCC 7: “The Contractor agrees to supply spare parts for a period of years: Five (5) years“  There is no request for offering in the Bid particular spare parts, quantities for spare parts and prices for spare parts. The Contractor has obligation to provide spare parts for deployed ITS systems during 5 years period if requested by Beneficiary.  During DLP the Contractor is obliged to provide spare parts according warranty conditions. Out of DLP period, the requested spare parts with prices will be offered by Contractor upon each submitted request by the Beneficiary. The Beneficiary may accept or not offered spare parts with given prices. If they are not accepted, the Contractor do not have further obligation concerning particular request from Beneficiary. | Clarification |
| 66 | **Q:**  Please specify the term "abnormally low bid". | Section I ITB Chapter 37  pp 32 | 66 | **A:**  As per stated in the ITB 37 - 37.1:  An Abnormally Low Bid is one where the Bid price, in combination with other elements of the Bid, appears so low that it raises material concerns as to the capability of the Bidder to perform the Contract for the offered Bid Price. | Clarification |
| 67 | **Q:**  In the RFB it is mentiond so called "method" to be described within the proposal. Could you please specify what you mean by method and what kind of information is expected herewith? | Section IV bidding Form - Technical Proposal pp 71 | 67 | **A:**  The Bidder should describe method for performing works for deployment, implementation and integration of ITS systems, i. e. full description of proposed solution for deployment of ITS. | Clarification |
| 68 | **Q:**  Referring to the page limit stated on page 72 does this only applies for the chapter "full description of proposed solution", whereas the bid proposal may be longer? | Section IV - Bidding Forms, Full description of proposed solution pp 72 | 68 | **A:**  Stated page limit (30 pages) only applies for the chapter "full description of proposed solution". The bid proposal may be longer. | Clarification |
| 69 | **Q:**  Utilizing the form of the code of conduct is it also allowed to add additional the code of conduct of the bidder as a complementing document? | Section IV - Bidding Forms, Code of Conduct pp 78 | 69 | **A:**  The Bidder shall use for this purpose the Code of Conduct form provided in Section IV.  No substantial modifications shall be made to this form, except that the Bidder may introduce additional requirements, including as necessary to take into account specific Contract issues/risks.  The Bidder shall submit its Code of Conduct **(Works Protection Measures)** that will apply to its employees, subcontractors and any other personal assisting the contractor, to ensure compliance with its Environmental, Social, Health and Safety (ESHS) obligations under the contract.  The Bidder shall initial and submit the Code of Conduct form as part of its bid. | Clarification |
| 70 | **Q:**  Please specify what is meant by Major Items. | Section IV  - Bidding Forms, Proposed Subcontractors for Major Items Installation Services | 70 | **A:**  The list of the Major Items of supply are stated in Section VII - Employer's Requirements, Detailed Technical Specifications - Required and Offered  (major items of supply), with Items divided in 3 parts:  1. Traffic part  2. TIS – TCC – South – Negotino  3. Electrical part | Clarification |
| 71 | **Q:**  As a publicly traded company listed on the stock exchange, the bidder is required to disclose its financial data and reports to the public. Therefore we would like to clarify if Form CCC Current Contract Commitments / Works in Progress have to be provided in such case? | Section IV Bidding Forms - List of existing contracts pp 100 | 71 | **A:**  Bidders and each member to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued. | Clarification |
| 72 | **Q:**  It is the intention of the project to provide real time information to road users. To prepare this Highway to be future-proof and enable upcoming technologies that are becoming normal in new ITS installations like this one globally, we would suggest that, as part of the scope, it is considered the means to provide also information to travellers through V2X technologies and/or smart apps such as navigation systems. Please consider this suggestion and include it as part of the scope. | Section VI - Employer's Requirements | 72 | **A:**  Take into consideration that the bidding documentation is prepared on already done ITS design project for Corridor X.  New ITS systems should be considered for next update of ITS implementation on Corridor X. | Clarification |
| 73 | **Q:**  In case the back-office system has to be hosted in the server room, what server and security installation already esists there to install propose software application by the bidder? Does the server room fulfilly all ISO 27001 standards including two different power supplies from two different sides of the building with different sources of power supply, same with data connection, fully surveilance with only authorized personnell to have access to the server room? | Section VI - Employer's Requirements pp 126 | 73 | **A:**  The server room in TCC Negotino is already build according to all standards with the project for Tunnels Demir Kapija. The TCC Negotino building have two different power supply from two different sources, fully surveillance with authorized personnel who have access to the room. | Clarification |
| 74 | **Q:**  The Contractor agrees to supply spare parts for a period of years: Five (5) years; does this also means the life cycle of the provided product and services is also considered by five years? | Section IX - Particular Conditions of Contract pp 284 | 74 | **A:**  The life cycle of the provided product and services is 10 (ten) years. | Clarification |
| 75 | **Q:**  As the working hours are defined from 8:00 a.m. to 16:00 p.m. question rises if bidder has foreseen rotary shifts for the performance of works and to minimize respective road closures if deemed necessary if such works also provided in the time schedule can be carried out also outside such working hours defined herewith. | Section IX - Particular Conditions of Contract pp 285 | 75 | **A:**  As per stated in PCC - GCC - 22.2.5 - Working Hours:  No work shall be carried out on the Site on locally recognized days of rest, or outside the normal working hours stated in the PCC, unless:  (a) otherwise stated in the Contract,  (b) the Project Manager gives consent, or  (c) the work is unavoidable, or necessary for the protection of life or property or for the safety of the Facilities, in which case the Contractor shall immediately advise the Project Manager.  If and when the Contractor considers it necessary to carry out work at night or on public holidays so as to meet the Time for Completion and requests the Project Manager’s consent thereto, the Project Manager shall not unreasonably withhold such consent.  This Sub-Clause shall not apply to any work which is customarily carried out by rotary or double-shifts. | Clarification |
| 76 | **Q:**  It is stated that "The following facilities will be deployed on 98 km highway length: Driver information signs and signals on the route (Variable Message Signs (VMS), Dynamic Message Display (DMS), Variable Lane Signals (VLS); supporting structures (Steel load structures for Variable Message Signs and Displays, Cameras and Weather stations)” What about the structures for the Variable Lane Signals (VLS)? Are they part of the scope to be considered? | RFB  - Section VII  - Employer´s Requirements  - Scope of Supply and Installation Services by the Contractor | 76 | **A:**  Steel load supporting structures are for Variable Message Sign, Dynamic Message Displays, Cameras and Weather stations. | Clarification |
| 77 | **Q:**  Are foundations and associated civil works for all the supporting structures part of the scope? | RFB  - Section VII  - Employer´s Requirements  - Scope of Supply and Installation Services by the Contractor | 77 | **A:**  The foundations and associated civil works for all supporting structures (for VMS and displays, cameras, weather stations) are part of the scope of the assignment in this bidding documentation. | Clarification |
| 78 | **Q:**  Delivery period is 56 weeks from Effective Date of the Contract” 56 weeks, given the current global delays in the supply chain, is quite a tough deadline. What is the status of the road construction? Is it completed? Is it open to traffic? Will we have to do the installation and testing with limited access due to the road being open to traffic or not? | RFB - Section VII – Employer´s Requirements | 78 | **A:**  The road construction of Highway A1 - Corridor X from BC Tabanovce to BC Bogorodica is finished and open to traffic. The installation and testing of the ITS equipment should be done according to the Bidder working plan and prepared and approved temporary traffic regime on the selected section of the Highway A1 - Corridor X. | Clarification |
| 79 | **Q:**  Design is not included as part of the scope, we are quoting based on the design and BOQ prepared by others, and therefore the amounts prepared by others. What happens with errors? Can we optimize the design during the project execution? | RFB –  Annex 1 - Price schedule 7-12 – Schedule 7 - Item 1 | 79 | **A:**  As per Annex 1 - Price schedule 7-12 – Schedule 7 - Item 1, the Bidder should prepare As build design project in 6 copies on English and 6 copies on Macedonian language, and 2 CDs on both languages. Refers to: ITS traffic design, Electrical design, Traffic information system, Steel portal frames structure, Cabel channel and TCC Negotino – facility. As build design should comprise any changes. | Clarification |
| 80 | **Q:**  It is stated that "Along the South part of the corridor there are four toll stations". Please could you clarify if as part of this contract scope we need to integrate / communicate / exchange data with them, integrate any existing equipment like VMS or CCTV cameras? If yes, could you please provide us with data about these systems. | RFB  - Section VII  - Employer´s Requirements  - Scope of Supply and Installation Services by the Contractor | 80 | **A:**  The toll stations along the section of Highway A1 - Corridor X – south part are not a part of this bidding documentation. | Clarification |
| 81 | **Q:**  Please clarify the meaning of the sentence: “Also, the project alignment is prepared for equipment with the needs for ITS control and management of for the entire South part of the Corridor, as a Project for the expansion with the following systems:  1. Traffic information system that includes: Local traffic center (LC)  2. Remote for route weather station (RWIS)  3. Remote Video Detection Station (VDC)”  Does it mean that there are already systems in place prepared to support additional equipment to cover the whole South part of the Corridor, and we just need to connect to them the new devices?  In the description of the scope of the project none of these systems above is specified as part of the scope, but there are similar systems requested, like for example “Automatic Weather Station (GMS)”. Are you referring to the same systems with different names? Or are these 3 additional systems we need to consider? | RFB  - Section VII  - Employer´s Requirements  - Scope of Supply and Installation Services by the Contractor | 81 | **A:**  They are the same systems with different names:  Remote for route weather station (RWIS) and Automatic Weather Station (GMS). | Clarification |
| 82 | **Q:**  It is stated that “Tunnels on this South Part are equipped by variable messages signaling, emergency phone call equipment in the tunnels, ventilation system and fire alarm and they are connected with the Remote Control and Management System at the «Negotino» Traffic Control Center (TCC).”  These tunnels belong to the Corridor X and therefore they should comply with all the relevant norms regarding tunnel safety, including the Directive 2004/54/CE of the European Union that defines the minimum level of safety requirements that tunnels have to comply with. Given the length of the tunnels, exceeding 1km, and their location, the tunnels should be equipped with more systems than the ones indicated above, like, for example, lightning, CCTV, Air Quality sensors, etc.  Given that the tunnels are the more critical part of the highways due to the potential consequences of incidents happening inside them that could easily result in the death of drivers and the destruction of the facilities, and given the responsibility of the operators of the Highway A1 located in “Negotino” to manage all the South section of the Highway, including the Demir Kapija Tunnels, we highly recommend that the status of the tunnel systems is reviewed and if needed, the contract scope is reviewed to include all relevant systems that may be missing currently.  Please confirm that:  - The tunnels are fully equipped with the relevant systems. If yes, please provide relevant information about the systems, like brand and model.  - If not, that the provision of all the needed tunnel systems is not part of the current scope of the contract as it is defined, and that they will be purchased separately or as an extension of the contract.  - The integration of all the systems (current or future) is included as part of the scope of the contract | RFB  - Section VII  - Employer´s Requirements  - Scope of Supply and Installation Services by the Contractor | 82 | **A:**  The tunnels and ITS in the tunnels on section of Highway A1 - Corridor X – south part (Demir Kapija Tunnels T1 and T2) are not a part of this bidding documentation. | Clarification |
| 83 | **Q:**  It is stated that “The main optical cable along the Corridor X is under authority of PESR, while point of connections between mail optical cable and elements of ITS along the Corridor X – South Part are stated below”  How many spare fibers are available in this fiber optic cable? What type, single mode or multimode?  Do we have to consider patch panels in each of those locations to connect our devices or are they existing? If existing, how many available ports for connections are there in each? If we require additional ports, do we have to supply them or would PESR do it upon our request and without charging any fee? | Section VII – Employer´s Requirements pp 125 | 83 | **A:**  There are two 2 SM optical fibers foreseen as spare.  All optical fibers for connection are single mode.  There are no existing patch panels.  The Bidder should supply patch panels. |  |
| 84 | **Q:**  Are the locations indicated in the table in page 126 only locations on the South part or all along the corridor? There are references about for example “Interchange Tabanovce” that is in the North part and the names of the tunnels in the table, “Tunnel Straza”, “Tunnel Soliste” and “Tunnel B5”, do not correspond to the names of the tunnels in the South part, Demir Kapija Tunnels T1 and T2. Please clarify if this is the correct table. | Section VII – Employer´s Requirements pp 126 | 84 | **A:**  The table on page 126 is for Coordinates for locations of the optical cable connections for along the Corridor X – north and south part. Please take into account Coordinates only for south part (no. 2, 8, 9, 16-22). | Clarification |
| 85 | **Q:**  If it is the correct table, please clarify what is the status of those 3 tunnels, if they have to be also integrated like the Demir Kapija Tunnels T1 and T2 in the system as part of the scope. | Section VII – Employer´s Requirements pp 126 | 85 | **A:**  The 3 tunnels: “Tunnel Straza”, “Tunnel Soliste” and “Tunnel B5” are on the section of Highway A1 - Corridor X – north part and they are not a part of this bidding documentation.  Also, tunnels and ITS in the tunnels on section of Highway A1 - Corridor X – south part (Demir Kapija Tunnels T1 and T2) are not a part of this bidding documentation. | Clarification |
| 86 | **Q:**  The Block Diagram in page 128 only shows the Section North, could you please provide the same Block Diagram but for Section South? | Section VII – Employer´s Requirements pp 128 | 86 | **A:**  The Block Diagram in page 128 shows the both Section North and South. | Clarification |
| 87 | **Q:**  Please clarify the sentence: “During the Defect Liability Period (DLP) (540 days according to page 241), which start from the date of Operational Acceptance and last for 12 months, the Contractor is fully responsible for ensuring availability of the supplied equipment during this period, replace the equipment if/where required and ensuring performance requirements of whole ITS systems (hardware and software)”  Is the Contractor responsible for the preventive and corrective maintenance during the Defect Liability Period? | Section VII – Employer´s Requirements pp 128 | 87 | **A:**  As per Annex 1 - Price schedule 7-12 – Schedule 7 - Item 3 the requirements are:  Implementation of as-built documentation with manuals for operation and maintenance in 6 copies on English and 6 copies on Macedonian language, and 2 CDs on both languages.  and  As per stated in Section VII – Employer´s Requirements:  During the Defect Liability Period (DLP) which start from the date of Operational Acceptance and last for 12 months, the Contractor is fully responsible for ensuring availability of the supplied equipment during this period, replace the equipment if/where required and ensuring performance requirements of whole ITS systems (hardware and software).  **The Contractor is responsible for the operation and maintenance of the whole ITS systems in accordance to the prepared manuals, during the Defect Liability Period.** | Clarification |
| 88 | **Q:**  In pages 148-159 you are requesting in different positions of the table independent workstations with independent monitors for the AID, VMS, RWIS and the Traffic System, and at the same time you are requesting (position 22 page 163) an integrated traffic information system from which to manage and monitor all those units and subsystems. Could you please review and clarify this? With the integrated traffic information system, the operators can manage all the individual subsystems without the need to have additional multiple workstations that will only occupy space in the Control Center and could even cause coordination issues during the management of any incident happening along the highway. Therefore all these multiple workstations are redundant and could be removed. | Section VII – Employer´s Requirements. Specification  Detailed Technical Specifications - Required and Offered  TIS - TCC - SOUTH – NEGOTINO  pp 148-159 | 88 | **A:**  In the project documentation, independent workplaces are foreseen due to reliability and based on good engineering practice and experience on similar facilities during operation. | Clarification |
| 89 | **Q:**  In page 3 and in page 123, when describing the scope of the project, it is mentioned “Driver information signs and signals on the route (Variable Message Signs (VMS), Dynamic Message Display (DMS), Variable Lane Signals (VLS)”.  However, in the section “Specification” that needs to be filled by the bidder and submitted as part of the BID, there is the description of two different types of Variable Message Signs and Information Displays to be supplied. No mention about Variable Lane Signals (VLS).  Please clarify if this is part of the scope or not, and if yes, please provide the minimum specs required for them. | RFB - Deployment of ITS on A1 Highway - Corridor X - South - WBTTFP-212A - 28-07-23 & Section VII – Employer´s Requirements. Specification  Detailed Technical Specifications - Required and Offered  pp 3; 123; 130-134 | 89 | **A:**  The Variable Lane Signals (VLS) are not part of the scope of this RFB. | Clarification |
| 90 | **Q:**  It is stated that “Tunnels of this Section will be equipped by variable messages signaling, phone call equipment, ventilation system and fire alarm and will be connected with the Remote Control and Management System at the «Negotino» Traffic Control Center (TCC).” Will be equipped or are equipped? Because in the previous document "RFB - Deployment of ITS on A1 Highway - Corridor X - South - WBTTFP-212A - 28-07-23" it is stated “are equipped”. Please clarify | Book 1 TS. Chapter 3.1.2  pp 165 | 90 | **A:**  The tunnels and ITS in the tunnels on section of Highway A1 - Corridor X – south part (Demir Kapija Tunnels T1 and T2) are not a part of this RFB documentation. | Clarification |
| 91 | **Q:**  Figure 3 displays the classification by vehicle categories in N. Macedonia according to PESR based on the following types:  1. Motorbikes.  2. Passenger vehicles and small vans.  3. passenger vehicles with trailer, big vans, vans with trailer, and lorries  4. Buses and lorries with trailer  5. Big lorries with trailer    But on page 203 of book 3 it is required that measurements have to be performed separately by type of vehicle/traffic lane (category) as follows:  1. Passenger vehicles.  2. Passenger vehicles with a trailer.  3. Freight vehicles.  4. Lorries with a trailer and haulers.  5. Buses.  Please clarify. | Book 1 TS. Chapter 3.3  pp 170 | 91 | **A:**  The required vehicle classes are: **8+1.**  The measurements have to be performed separately by type of vehicle/traffic lane (category) as follows:  1. Motorbike  2. Passenger vehicle  3. Light weight truck (van) (< 3,5t)  4. Passenger vehicle with trailer and light weight truck (van) with trailer  5. Truck (> 3,5t)  6. Truck with trailer  7. Tow truck  8. Bus, bus with trailer  X Unclassified vehicle | Clarification |
| 92 | **Q:**  It is stated “This ITS Main Project deals with implementation and construction of technical systems that provide establishment of the traffic management in implementation, prior to the abovementioned services; altogether they constitute the Intelligent Transportation System. It covers the following systems:  · …  · emergency telephone calls;”  This is the first mention in the documents that the scope includes emergency phone or emergency phone management. Please clarify. | Book 1 TS. Chapter 4  pp 175 | 92 | **A:**  Emergency telephone management system (Telephone Call System) is not a part of this RFB. | Clarification |
| 93 | **Q:**  It is stated that “Both TCC (“Petrovec” and “Negotino”) are connected to the local stations and equipment on the road section under their jurisdiction but also to the local stations and equipment on the road section under other TCC jurisdiction. They act as disaster recovery site to each other.”  As the scope of this contract is only the “Negotino” TCC, i.e. the South part, and the North part will be subject to a different future contract, please clarify what this means for the contractor that will supply the South part:  - At a later stage the system in Negotino will have to be extended by the Contractor once the North part is installed by another Contractor?  - Will we have to prepare our LTS to provide information to two different TCC and define the algorithm that will decide which request has preference and which command has priority? | Book 1 TS. Chapter 4.2  pp 178 | 93 | **A:**  As it is stated, the Bidder should prepare the local stations and equipment (LTS) for work with both TCC's (“Petrovec” and “Negotino”).  The Bidders should offer in the Bid the LTS which can provide information to two different TCC and define the algorithm that will decide which request has preference and which command has priority. | Clarification |
| 94 | **Q:**  Please clarify which other ITS subsystems the TCC will have to provide and forward information to, and what information needs to be provided. | Book 1 TS. Chapter 4.4  pp 180 | 94 | **A:**  The TCC must have the possibility of exchanging information bidirectional with ITS subsystems. | Clarification |
| 95 | **Q:**  Please clarify with third-party users the TCC will have to establish connections to, what information needs to be provided and for what use. | Book 1 TS. Chapter 4.4  pp 180 | 95 | **A:**  The TCC must have the possibility of exchanging information bidirectional with third-party users.  Detailed definitions for data to be exchanged and protocols to be used will be agreed during the implementation phase of the project. | Clarification |
| 96 | **Q:**  Please clarify which other subsystems´ centers the TCC will have to exchange data (traffic data), and which data needs to be provided. | Book 1 TS. Chapter 4.4  pp 180 | 96 | **A:**  The TCC Negotino must have the possibility of exchanging information bidirectional with other TCCs. | Clarification |
| 97 | **Q:**  Please clarify if all these data and information exchanges are unidirectional or bidirectional, i.e. will the TCC also receive data and information from other TCCs and what shall be done with it? | Book 1 TS. Chapter 4.4  pp 180 | 97 | **A:**  The TCC Negotino must have the possibility of exchanging information bidirectional with other TCCs. | Clarification |
| 98 | **Q:**  On figure 7 it is displayed that Local Traffic Stations only communicates with variable message signs and road weather stations. Please confirm. Please also confirm if it will be acceptable, possible to implement the message selection algorithm based on current weather conditions based on direct communication between weather station and variable message signs. | Book 1 TS. Chapter 4.4  pp 181 | 98 | **A:**  Local Traffic Station only communicates with equipment connected to that LTS (variable message signs, road weather stations, counters etc.) Each LTS communicates with TCC.  Direct communication between weather station and variable message signs is not acceptable. | Clarification |
| 99 | **Q:**  It is stated "By a traffic flow measurement the traffic estimation data on a road are collected, such as the following: Traffic load per traffic lane of the road. Classification of vehicles in six statistical categories and two vehicles categories up to 3.5 t and above 3.5 t)“.  Proposed traffic flow measurement devices does not measure vehicle weight, only vehicle length. Please clarify | Book 1 TS. Chapter 4.7  pp 183 | 99 | **A:**  Yes, the proposed traffic flow measurement devices do not measure vehicle weight, only vehicle length.  WIM is not part of this project documentation. | Clarification |
| 100 | **Q:**  It is stated that "The serving interface must be ergonomically designed. It covers the following: (...) entries and printing the Macedonian language”. The contract language is English, this is the first mention in the tender documents that the interface has to allow Macedonian language. Please clarify. | Book 1 TS. Chapter 5.1  pp 187 | 100 | **A:**  The serving interface must provide entries (input of the records) must allow using of Macedonian keyboard and printing the Macedonian language. **The translating of the serving interface in Macedonian language is not required.** | Clarification |
| 101 | **Q:**  According to this chapter, It is required to supply Local Traffic Stations (LTSs) with the role of communication concentrators. The use of Local Traffic Station creates single points of failures on the installation.  Please clarify if It will be acceptable to implement direct communication between TCCs and field devices or to propose any other redundancy measure to avoid such single points of failure. | Book 1 TS. Chapter 6.1  pp 191 | 101 | **A:**  Regarding the resilience of network topology, the connection method that should be used is star network topology as connection between TCC and LTSs, as it is presented in Book 1, Chapter 6.1. | Clarification |
| 102 | **Q:**  In these sections again it mentions that Variable Lane Signals (VLS) are part of the scope to be delivered, but no technical description. Please clarify. | Book 1 TS. Chapter 6.2.1  pp 195, 201 | 102 | **A:**  The Variable Lane Signals (VLS) are not part of the scope of this RFB. | Clarification |
| 103 | **Q:**  The description of the DMS in this section of Book 1 TS and in the RFB do not match. For example the dimension of the display area. Please clarify which is the correct one. | RFB - Deployment of ITS on A1 Highway - Corridor X - South - WBTTFP-212A - 28-07-23 & Section VII – Employer´s Requirements. Specification  Detailed Technical Specifications - Required and Offered & Book 1 TS. Chapter 6.2.1  pp 130-134; 202 | 103 | **A:**  Fully programmable information (graphical) display for mounting on gantry structure above traffic lanes with front panel size 700 x 170 cm.  Sign contains an active display area of at least 640x140 cm, pixel spacing maximum 20 mm. | Clarification |
| 104 | **Q:**  It is required that cameras implement 30 fps. Considering that the power network is based on 50Hz is it possible to provide 25 fps cameras? | Book 1 TS. Chapter 6.5.2  pp 211-212 | 104 | **A:**  Cameras need to provide 30 fps. | Clarification |
| 105 | **Q:**  It is required incident cameras with analog video output. Is it possible to offer cameras that allows video display through laptop web browser? | Book 1 TS. Chapter 6.5.2  pp 212 | 105 | **A:**  Yes, it is acceptable. | Clarification |
| 106 | **Q:**  It is required thermovision cameras for AID. Is it possible to offer color cameras with deep learning automatic incident detection features? | Book 1 TS. Chapter 6.5.3  pp 212 | 106 | **A:**  No. The cameras must be thermal imaging as required by the project. | Clarification |
| 107 | **Q:**  Please clarify if this is part of the scope to be provided, as it is not included in the RFB and it is the first mention in the documents to these devices | Book 1 TS. Chapter 6.6  pp 217 | 107 | **A:**  Chapter 6.6 is for Straza tunnel.  The Straza tunnel is not part of this RFB. | Clarification |
| 108 | **Q:**  This whole section is dedicated to describe the Straza Tunnel. This tunnel is not part of the scope of this project, or is it? Please clarify.  At the same time, we are missing a similar chapter for the Demir Kapija tunnels. | Book 1 TS. Chapter 6.7  pp 218 | 108 | **A:**  The Straza tunnel is not part of this RFB.  The Demir Kapija tunnels are not part of this RFB. | Clarification |
| 109 | **Q:**  In these two sections again the Telephone Call System / SOS phones are mentioned. Are they part of the scope of the contract?  If yes, could you provide us with more info, technical description, amounts to be included? They are not included in the BOQ either. | Book 2 TS. Chapters 1.3 & 1.4 pp 99, 100 | 109 | **A:**  Emergency phone management system (Telephone Call System) is not a part of this RFB documentation. | Clarification |
| 110 | **Q:**  In this page the same Diagram Block than in RFB page 128 related to the Section North is shown, we are missing the Section South. | Book 2 TS. Details pp 129 | 110 | **A:**  The Block Diagram in page 128 shows the both Section North and South. | Clarification |
| 111 | **Q:**  It is stated that “The Traffic Information System is designed and planned primarily to meet needs of the Traffic Control Center’s users. The Traffic Information System is intended to provide connectivity between various integrated subsystems in order to maximize exploiting capabilities of all integrated subsystems and to provide control and monitoring functions respecting principles of robustness and reliability. (…)  At the user level data are collected and forwarded to drivers in a form of an image or a light message. In tunnels it is forwarded via a broadcasting system or audio messages.”  Please clarify if the information and data that will be broadcasted to the drivers in the tunnel shall be done directly from the Traffic Information System to be provided as part of this contract, or through an interface to an existing system that controls the tunnel equipment. | Book 3 TS. Chapter 1  pp 173 | 111 | **A:**  The Traffic Information System is designed and planned primarily to meet needs of the Traffic Control Center’s users and to provide connectivity with existing tunnels system with bidirectional data exchange of information between the two systems. It is not directly from the Traffic Information System. The Operator of the tunnel system need to forward information and data that will be broadcasted to the drivers in the tunnel. | Clarification |
| 112 | **Q:**  If the answer to the above is through an interface to an existing system, could you please provide more information about this existing system? For example, what kind of data interface / communication protocol it allows to be used? Is there a possibility to work with the supplier of that system if it is needed to make changes to allow the interface to work properly and/or to test the interface? Is there existing documentation about the data model that the system uses? Is the exchange of information unidirectional or bidirectional, i.e. will we send information and data to the tunnel system and we will not receive any feedback from it, for example, if it has been properly transmitted to the drivers or if there has been a failure in the communication? Will we also get information and data back from them that could also be relevant to the neighboring areas of the tunnel, i.e. an accident in the tunnel? | Book 3 TS. Chapter 1  pp 173 | 112 | **A:**  Detailed definitions for data to be exchanged and protocols to be used will be agreed during the implementation phase of the project.  Same as above - see the answer 111 above. | Clarification |
| 113 | **Q:**  It is stated that “entries and printing the Russian language”. Please clarify. | Book 3 TS. Chapter 1.1.1  pp 175 | 113 | **A:**  Should be: entries and printing the Macedonian language  **Please see Amendment no. 2.** | **Amendment** |
| 114 | **Q:**  It is stated in page 176 that “The built-up system for control and management in “T1” and “T2” tunnels (SCADA system) will be integrated into the central system of the entire section as a sub-system. Integration will enable the built system to be maintained in its current function and implemented into the traffic system of the entire south sector.”  and in page 177 that “NOTE: The existing System for control and management of tunnel structures in the “Negotino” Control Center of the Section Demir Kapija – Smokvica is to be integrated into the “Negotino” Traffic Control Center (TCC).”  Please clarify which kind of integration is expected between the built-up / existing system of the tunnels and the central system:  - Will the operator control and manage the entire south sector from the central system´s interface, including the tunnels?  - Will there be unidirectional or bidirectional data exchange between the two systems to communicate relevant data, failures and alarms?  - Will there be commands sent from the central system to the tunnel system to manage any device installed in the tunnel, i.e. ventilation system, lightning system…?  - Will the central system be able to launch traffic and incident plans affecting also the part of the highway within the tunnels, including commands to the tunnel systems? | Book 3 TS. Chapter 1.1.2 & 1.2 pp 176, 177 | 114 | **A:**  TCC South will operate with two teams of operators (one team for the supervision of the tunnels and one team for the supervision of the SOUTH sector).  The operators will manage their part of the work independently, but will make joint decisions for the Sector as a whole.  It is necessary to provide bidirectional data exchange of information between the two systems to communicate relevant data, failures and alarms.  The two systems will work independently regarding the sending of commands.  The central system needs to be able to launch traffic and incident plans affecting also the part of the highway within the tunnels, while the commands, which refer to the tunnel system, will be given by the operator of this system. |  |
| 115 | **Q:**  According to 1.2.8 Graphical User Interface, 1.2.9 Main Window of GUI Application and 1.2.10 Graphical Information System (GIS) Display of Graphical User Interface (GUI), the answers to all the above questions should be "yes", the central system should be able to provide all the above functionality to the operator. Please confirm. | Book 3 TS. Chapter 1.2.8, 1.2.9 & 1.2.10  pp 185-187 | 115 | **A:**  Yes. The central system should be able to provide all the above functionality to the operator. | Clarification |
| 116 | **Q:**  If yes, the existing Tunnel System will remain in place but acting as simply a middleware connecting the end devices and systems in the tunnel to the Central System, collecting the information in the tunnel and sending it to the Central System and executing the commands received from the Central System forwarding them to the individual devices. Please confirm our understanding is correct. | Book 3 TS. | 116 | **A:**  The existing Tunnel system will remain in place. The TCC will provide bidirectional data exchange of information between the two systems to communicate relevant data, failures and alarms. The operators will manage their part of the work independently, but will make joint decisions for the Sector as a whole. | Clarification |
| 117 | **Q:**  It is stated that "Program support of the AID system for scenarios implementation must provide functionality for uniform, quick and efficient system response in different situations." and that “Typically, in tunnels 4 basic scenario groups are implemented”  According to the previous documents, the tunnels are not equipped with any AID/CCTV systems, and, according to the scope of this contract, the AID / CCTV system to be installed is only on the Highway, not inside the tunnels.  Please confirm if a) there is an existing AID/CCTV system installed in the tunnels with which we will interface and that will provide information about the abnormal situations within the tunnel or b) we need to install also an AID/CCTV system in the tunnels as part of the contract. | Book 3 TS. Chapter 5.10  pp 244 | 117 | **A:**  The tunnels in Sector South (section D. Kapija-Smokvica) are not part of this RFB documentation.  a) CCTV has been installed within these tunnels, and they are operated from the existing Negotino center.  b) This RFB documentation does not foresee and not require the installation of AID and CCTV system in the tunnels. | Clarification |
| 118 | **Q:**  If the answer to previous question is a), please provide us with information about the brand and model of the system implemented to check the interface capabilities. | Book 3 TS. Chapter 5.10  pp 244 | 118 | **A:**  Same as above - see the answer above. | Clarification |
| 119 | **Q**:  Please confirm a) if we need to supply this system along the Highways, as previously asked and b) for the system installed in the tunnels, if we need to integrate the Call Mgmt in the Central System, in which case, please provide us with information about the brand and model of the system implemented to check the interface capabilities. | Book 3 TS. Chapters 5.12 & 6.1.2  pp 246&254 | 119 | **A:**  Emergency phone management system (Telephone Call System) is not a part of this RFB documentation. | Clarification |
| 120 | **Q:**  Please confirm if we have to include this as part of our proposal or if it is simply included as a reference to a future extension that is not part of the scope of this project and therefore on the contract value. | Book 3 TS. Chapter 5.13  pp 247 | 120 | **A:**  Emergency phone management system (Telephone Call System) is not a part of this RFB documentation. | Clarification |
| 121 | **Q:**  Please complete PCC in respect to the terms to be defined in PCC 8.1. and PCC 8.2. | Section IX - Particular Conditions of Contract pp 284 | 121 | **A:**  Please see Section X – Contract Forms – Contract Agreement - Appendix 4. - Time Schedule, were is stated that **duration of Deployment of ITS is 56 weeks from the Effective date** - as specified in the Contract Agreement.  PCC 8.1 and 8.2 are complete and defined, no changes are needed. | Clarification |
| 122 | **Q:**  Please specify the difference between contractual terms "Plant" and "Facility", in particular as "Facilities" per definition means "the Plant to be supplied and installed". | Section X – Contract Forms – Contract Agreement | 122 | **A:**  In the Contract Agreement is clearly stated:  WHEREAS the Employer desires to engage the Contractor to design, manufacture, test, deliver, install, complete and commission certain **Facilities**, **viz. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (“the Facilities**”), and the Contractor has agreed to such engagement upon and subject to the terms and conditions hereinafter appearing.  Deployment requirements are:  Provision, Installation and Commissioning of hardware, software and road monitoring device, as well as training on ITS systems (for the operators staff). The following facilities (the Plant to be supplied and installed) will be deployed on 98 km highway length:  • Driver information signs and signals on the route (Variable Message Signs (VMS), Dynamic Message Display (DMS), Variable Lane Signals (VLS);  • weather stations on the route (Automatic Weather Station (GMS));  • video-data equipment on the route (Video camera, Distribution system, Video detection system – (AID), Video management system – (VMS));  • control and management devices on the route and the local communication network (Local Traffic Station (LTSs) should be based on open protocols based on a published standard which is accessible to both companies and users);  • information and communication functional network;  • supporting structures (Steel load structures for Variable Message Signs and Displays, Cameras and Weather stations);  • construction projects on the planned equipment installation on the route (Tranches and cable channels for energy and communication cables);  • Traffic Control Center (Negotino) – operational center, hardware and software equipment. | Clarification |
| 123 | **Q:**  Due to the fact there is uncertainity of project start date, we kindly ask for Price adjustment (Indexation clause). | Section II – BDS – ITB 17.7  and  Section IX - PCC 11.2 | 123 | **A:**  As per BDS – ITB 17.7  **The prices quoted by the Bidder shall not be subject to adjustment during the performance of the Contract.**  As per PCC 11.2:  **The Contract Price shall not be adjusted.**  **Both clauses will remain unchanged.** | Clarification |
| 124 | **Q:**  Given the overall scope of the project, and our extensive experience in doing projects of this type globally, we understand that a mechanical engineer could also fill any of the roles of the Key personnel as defined in the Key Personnel table. Please confirm this would be also accepted. | Section VII - Employer's Requirements  pp 162  and  Section III – Evaluation and Qualification Criteria - 2.5 Contractor’s Representative and other Key Personnel | 124 | **A:**  As per states in the Section III – Evaluation and Qualification Criteria - 2.5 Contractor’s Representative and other Key Personnel, the Bidder may propose other personnel, **beside Key personnel**, that the Bidder considers appropriate to perform the Contract, including mechanical engineer.  **The Bidder cannot propose Key Personnel with different academic qualifications from those stated in the Key Personnel Table.** | Clarification |
| 125 | **Q:**  According to the tender documentation Section III: Evaluation and Qualification Criteria, Table 1. Eligibility, Form ELI 1.1 each member in the Joint Venture must meet requirement also in the same Section III: Eligibility and Qualification Criteria, for Letter of Bid is asked the same requirement that each member in the Joint Venture must meet. Please clarify whether it is acceptable for Leader of Joint Venture to sign and submit Letter of Bid for and on behalf of JV and Form ELI 1.1 only? Or, should in a case of JV, in addition to form ELI 1.1 there is a need to submit form ELI 1.2? | RFB - Section III: Evaluation and Qualification Criteria | 125 | **A:**  In a case of JV, filled form ELI 1.1 and filled form ELI 1.2 should be submitted in the Bid. | Clarification |
| 126 | **Q:**  According to the tender documentation Section IV: Bidding Forms, Manufacturer’s Authorization, there is section which states following: “We hereby extend our full guarantee and warranty in accordance with Clause 27 of the General Conditions, with respect to the goods offered by the above firm.”.  Considering the scope of services and type of equipment envisaged to be deployed, we are at the standing that this wide formulation can jeopardize the competition and fair and equal treatment of potential bidders. Indeed, please note that majority of manufacturers refuse to sign this document because their internal procedures and general conditions recognize only standard guarantee’s. Also, there are some manufacturers that refuse to issue Manufacturer’s Authorization for potential Bidders who are not officially registered in the territory of Republic of North Macedonia which then, as above mentioned, narrows competition and can make an impression that Employer is having preferable treatment of some Bidders which is in direct collision with the IBRD procedures and rules for fair treatment of all domestic and foreign potential Bidders. Additionally, in IBRD standard procedure we can find next: “[If Manufacturer’s authorization is required for only some of the items under the contract, list the items for which Manufacturer’s authorization is required. Manufacturer’s authorization is normally required for critical/technically complex items.]”, and for this particular project only critical/technically complex item can be software for system integration, while the rest of requested major items are by any means common equipment as therefore, as per IBRD procedures, should not have Manufacturer’s Authorization. Following the above, you are kindly requested to rephrase this part with Clause 27 and recognize the mentioned situation for all equipment except software for system integration, which is reasonable noncommon item to ask Manufacturer’s Authorizations to be submitted. |  | 126 | **A:**  As per RFB-BDS - 11.1 (j) - 5. Manufacturer Authorization is required for major items of supply listed in Detailed TS - required and offered - Section VII - pages 120 to 139  Template for Manufacturer Authorization is in standard form prepared by World Bank and used in all Standard Procurement Documents by World Bank.  In accordance with Clause 27 of the General Conditions of Contract the Defect Liability Period (DLP) start from the date of Operational Acceptance and last for 12 months.  The template for Manufacturer Authorization will remain unchanged. | Clarification |
| 127 | **Q:**  According to the tender documentation Section VII: Employer’s Requirements, Specification, Detailed Technical Specifications - Required and Offered, Offered Description in a Bid, proofed by submission of relevant Technical Datasheet, which will be evaluated by Evaluation Commission and there is strong possibility that requested Technical Datasheet will be missing some details and be very close to what is requested by the tender documentation, except the Technical Datasheet of targeted and preferable Manufacturer. Some of requested equipment according to explicitly written Technical Datasheet can be provided only by one Manufacturer. Please state that you are prone to approve Technical Datasheets that are very close to requested characteristics of required equipment because of the Manufaturer’s nature of previously formed Technical Datasheets, not mentioning all details and are not eliminatory at bidding stage. Otherwise, it will be easily demonstrable that this type of requested Technical Datasheets prefer only already selected Manufacturer? |  | 127 | **A:**  Technical Datasheets that are “very close” to requested characteristics of required equipment should be accompanied with detailed explanation from the Bidder how the requirements are satisfied and the Bidder should confirm responsiveness of each particular equipment to the requirements. **The offered equipment must comply with all requirements.** | Clarification |
| 128 | **Q:**  According to the tender documentation Section II: Bid Data Sheet (BDS), ITB 11.1 (j), - License for performance of technical security services: “Note to Bidders: In case of single Bidder, the Company must possess License for performance of technical security services issued by Ministry of Interior of the Republic of North Macedonia. In case of JV, at least one member of the JV must possess License for performance of technical security services issued by Ministry of Interior of the Republic of North Macedonia. Copies of the required License should be submitted to Employer prior to Contract signing.”,  We find this requirement as discriminatory towards foreign potential Bidders and selectively targets preferable in this case domestic Bidders. Even if foreign Bidder can find local JV member with requested license then there is additional limiting factor according to the tender documentation Section III: Eligibility and Qualification Criteria, Financial Situation, 3.2 Average Annual Turnover, minimum average annual turnover in ITS sector of 18,000,000.00 EUR (eighteen million EUR), calculated as total certified payments received for contracts in progress or completed, within the last three years (2020, 2021, 2022) which each JV member must meet at least for 25% of the required mentioned amount.  We suggest Employer to change terms and conditions similar to License A or Confirmation issued by Ministry of transport and communications: “Note to Bidders: According to the national legislation, the awarded Bidder (or JV) should obtain and possess a License A or Confirmation for performance of construction works issued by Ministry of transport and communications, prior to Contract Signing. Copies of the required License A or Confirmation should be submitted to Employer prior to Contract signing.”, so that all potential Bidders have at least fair chance at bidding stage?  Besides, please clarify whether the statement that both licenses shall be obtained prior contract signing is sufficient to be submitted within the bid?  Also, considering that the License for performance of technical security services is commonly possessed by specialized suppliers, we kindly urge you to reconsider the requirement and allow this license to be provided by subcontractor. | RFB – Section II – BDS - ITB 11.1 (j) – Item 4. Documentary evidence:  - License for performance of technical security services | 128 | **A:**  According to the national Law for Private Security, License for performance of technical security services is issued only by Ministry of Interior of the Republic of North Macedonia.  Bidder (or JV) statement that both licenses shall be obtained prior contract signing may be submitted within the bid, but this is not obligatory.  Copies of the required Licenses (License A or Confirmation for performance of construction works and License for performance of technical security services) should be submitted to Employer by **awarded Contractor** prior to Contract signing.  In case of License for performance of technical security services we accept that sub-contractor can possess the License under the following conditions:  Bidder (or JV) can nominate sub-contractor with License for performance of technical security services, the sub-contractor must be stated in the Bid, must have signed Contract for engagement with the Bidder (or JV) and copy of License must be submitted in the Bid.  RFB – Section II – BDS - ITB 11.1 (j) – Item 4. Documentary evidence:  - License for performance of technical security services **is changed – amended as follow**:  Note to Bidders: In case of single Bidder, the Bidder must possess License for performance of technical security services issued by Ministry of Interior of the Republic of North Macedonia, or the Bidder must nominate sub-contractor with License for performance of technical security services. **The nominated sub-contractor must be stated in the Bid, must have signed Contract for engagement with the Bidder and copy of License must be submitted in the Bid.**  In case of JV, at least one member of the JV must possess License for performance of technical security services issued by Ministry of Interior of the Republic of North Macedonia, or the JV must nominate sub-contractor with License for performance of technical security services. **The nominated sub-contractor must be stated in the Bid, must have signed Contract for engagement with the JV (all members) and copy of License must be submitted in the Bid.**  Original of the required License should be submitted to Employer by awarded Bidder (or JV) prior to Contract signing.  **Please see Amendment no. 2.** | **Amendment** |
| 129 | **Q:**  According to the tender documentation Section II: Bid Data Sheet (BDS), A. General, ITB 2.1, Loan or Financing Agreement amount is 26,200,000.00 EUR. Also, according to the tender documentation Section III: Eligibility and Qualification Criteria, Financial Situation, 3.2 Average Annual Turnover, Minimum average annual turnover in ITS sector of 18,000,000.00 EUR (eighteen million EUR), calculated as total certified payments received for contracts in progress or completed, within the last three years (2020, 2021, 2022) is requested together with 4.2(a) Specific Experience, Participation as contractor, joint venture member, management contractor, or subcontractor, in at least two (2) contracts in ITS sector within the last five (5) years, each with a value of at least 10,000,000.00 EUR (ten million EUR), or at least one (1) contract in ITS sector within the last five (5) years, with a value of at least 20,000,000.00 EUR (twenty million EUR), that have been successfully and substantially completed and that are similar to the proposed Plant and Installation Services. We assumed that tender requests for Average Annual Turnover and Specific Experience are defined in regards to the Tender budget of 26,200,000.00 EUR but according to the tender documentation Section VII: Employer’s Requirements, Project Background, “The International Bank for Reconstruction and Development (IBRD) launched the Multiphase Programmatic Approach to facilitate the achievement of the Western Balkans Governments' goal of reducing trade costs and increasing transport efficiency. The Program includes two phases: i) phase 1 includes Albania, North Macedonia and Serbia, and ii) phase 2 other beneficiaries in the Western Balkan. For the purpose of financing of the Western Balkan Trade and Transport Facilitation Project (Project), part of Phase 1 of the Program, IBRD has extended to the Republic of North Macedonia EUR 26,2 million loan to support a combination of investments, technical assistance and regulatory and institutional reforms. The Project consists of 4 Components whereas this Contract falls under the Component 2: Enhancing transport efficiency and predictability’ with special focus on the implementation of the Improvement of ITS on the network in North Macedonia.”, implementation of ITS falls under only Component 2., and is only part of total budget of EUR 26,2 million. Following the same, it is concluded that the estimated value for this project is lower than 26,2 million EUR and therefore, we kindly ask you to give an approximative amount of budget that correspond to the implementation of ongoing tender. In that regard, we also urge you to revise required values for Average Annual Turnover and Specific Experience that will be directly related to the scope, specific and estimated value for the ongoing tender. | RFB - Section III: Eligibility and Qualification Criteria,  3. Financial Situation  and  4. Experience | 129 | **A:**  Required values for Average Annual Turnover and Specific Experience are directly related to the scope, specific and estimated value for the ongoing tender.  **The requirements in Section III remains unchanged.**  **Please provide total price of your Bid as per your own calculation of costs.** | Clarification |
| 130 | **Q:**  According to the tender documentation, Price Schedule No. 1 - TRAFFIC PART - Supply and Installation,  Item no. 9 - Detector for traffic data collection at entry-exit lanes of highways:  - At this position detector which works in Front fire mode is specified. However, in the technical description in Book1, - page 53 is written that detectors are placed on a pillar on the side of the roadway, preferably on the lighting pole, at a minimum height of 7m. Is it possible to provide detector with side fire mode because of installation issue?  - Mechanical IP 67 is specified. Together with TLS 2012 classification requirement from the technical description (Book1 – page 53), we couldn’t find product on the market that meets both requirements. Is it possible to provide detector with IP65 protection together with TLS classification?  Item no. 10 - Detector for lane traffic data collection, mount on motorway gantry:  At this position detector with Detection zone for 6 lanes is specified. It is not clear why the detector for 6 lanes is specified when it is clearly seen in the documentation and drawings (Book1 – page 52, Book 1.3 – Drawings) that each detector is mounted above one traffic lane. Is it possible to provide a detector with a one lane detection zone which will be adequate for this purpose?  - Mechanical IP 67 is specified. Together with TLS 2012 classification requirement from the technical description (Book1 – page 52), we couldn’t find product on the market that meets both requirements. Is it possible to provide detector with IP65 protection together with TLS classification? | Section VII – Employer’s Requirements -Detailed Technical Specifications Items no. 6 and 7,  Price schedule no. 1, Items 9 and 10 | 130 | **A:**  Requirement for stated devices below, for IP 67 mechanical protection:  RDT – under Item no. 6 and  Price schedule no. 1, under Items 9  • Mechanical: IP 67, water tight,  RDT – under Item no. 7 and  Price schedule no. 1, under Items 10  • Mechanical: IP 67, water tight,  **are changed in:**  **• Mechanical: minimum IP 64, splashing of water**  **Please see Amendment no. 2.** | **Amendment** |
| 131 | Q:  Considering that the installation of new ITS systems will be carried out on a section of the highway where traffic is ongoing, please explain whose responsibility it is to organize temporary traffic regulation during the construction work? For example, during cable duct installation, it will be necessary to close one traffic lane, or during the assembly of portal structures, it will be necessary to close both traffic lanes, etc. The organization of temporary traffic regulation can significantly impact the cost of the bid. | RFB - Price schedule 7-12 - Price Schedule No. 7 - Traffic Part - Item no. 4 | 131 | **A:**  Please check Item no. 4, in Price schedule 7-12, Price Schedule No. 7 - Traffic Part. The Contractor is responsible for organizing the temporary traffic regime and maintenance of temporary traffic signaling and equipment. | Clarification |
| 132 | **Q:**  Book 1 6.4 Weather Sensors  Questions:  The title states "Rainfall radar sensor". Please confirm that an optical sensor is also permissible. | Book 1  6.4 Weather Sensors | 132 | **A:**  Yes, the optical sensor is also permissible. | Clarification |
| 133 | **Q:**  Book 1 6.4 : Weather Sensors: warnings (ice alarm, risk of ice warning) and condition of the roadway (dry, damp, damp with chemicals, wet, wet with chemicals, snowy, freezing).  Question: Please confirm that the following is acceptable: When the road temperature exceeds +3 °C (+37 °F), surface state is always reported as Moist or Wet, regardless of the amount of chemical on the road. | Book 1  6.4 Weather Sensors | 133 | **A:**  Yes, the Designer agrees with the statement that the road surface is marked wet at a temperature of around +3 °C (2.8°C; 2.9°C; 3.1°C; 3.2°C), but the exact condition of the road also depends on other weather parameters and conditions on the ground. | Clarification |
| 134 | **Q:**  Book 1 6.4: Weather Sensors: Solar Radiation, Snow depth is in the table of measurements.  There is no other mention of solar radiation within the spec.  Question: Please clarify what is required about Solar Radiation, Snow depth. This will allow us to identify which brand you intended to use as reference. | Book 1  6.4 Weather Sensors | 134 | **A:**  Measurements of the depth of snow will not be included in the station, the road meteorological station gives information in the form of: snow falling and snow not falling.  Sensor for measuring solar radiation on weather station. | Clarification |
| 135 | **Q:**  Book 1 6.4: Weather Sensors: Barometric Pressure: this spec is in the road sensor information and not listed in the measured parameters table  Question: Please clarify what is really required. | Book 1  6.4 Weather Sensors | 135 | **A:**  It is necessary to measure the (barometric) air pressure. | Clarification |
| 136 | **Q:**  Book 1 6.4: Weather Sensors: Accuracy +/-1 % per recording interval.  Question: Is this analog accuracy? Not sure what this accuracy is in reference to. Please clarify. | Book 1  6.4 Weather Sensors | 136 | **A:**  Weather Sensor should satisfy the measurement accuracy stated in the project documentation. | Clarification |
| 137 | **Q:**  Book 1 6.4: Weather Sensors: Road humidity  Question: This is a measurement that our market leading weather sensor vendors are not familiar with in road sensors. Air Humidity is a standard measurment. Please clarify what measurement "Road Humidity" refers to and provide an example for a product that might be used and meets this requirement. | Book 1  6.4 Weather Sensors | 137 | **A:**  It is necessary to measure Air Humidity. | Clarification |
| 138 | **Q:**  Book 1 6.4: Weather Sensors: Road surface wetting l/m2;  Question: This is a measurement that our market leading weather sensor vendors are not familiar with in road sensors. Please clarify what measurement "Road Surface wetting" refers to and provide an example for a product that might be used and meets this requirement. | Book 1  6.4 Weather Sensors | 138 | **A:**  It is necessary to have Temperature and Humidity sensor and Rain sensor. | Clarification |
| 139 | **Q:**  Book 1 6.4: Weather Sensors:  Question: Please define "Risk of ice, frost or frozen snow". How shall the "risk" be determined? | Book 1  6.4 Weather Sensors | 139 | **A:**  The risk is determined by meteo software analysis based on the following data from the weather station:  road temperature, air temperature, precipitation and wind | Clarification |
| 140 | **Q:**  Book 1 6.4: Weather Sensors: Power supply from the network 230V AC, 24V, battery backup or solar energy  Question: Is a 12V backup battery as standard be acceptable? It is a standard solution with benefits for maintenance and spare parts. | Book 1  6.4 Weather Sensors | 140 | **A:**  The voltage level of the Power supply depends on the equipment that is offered.  Yes, 12V is acceptable. | Clarification |
| 141 | **Q:**  Book 1 6.4: Weather Sensors: Visibility meter – is based on infrared radiation emitted by LEDs. The device measures the diffuse light within a visibility range of 0-2000 m, accuracy +/- 10% reading. The meter must be equipped with a heating device so that it can be use in freeze conditions.  Question: would visibility range 10m…2000m be acceptable? If not acceptable, could you please give an example for a product that meets this requirement and might be used? | Book 1  6.4 Weather Sensors | 141 | **A:**  Yes, the visibility range 10m…2000m is acceptable. | Clarification |
| 142 | **Q:**  Book 3 5.11 Video Wall / Price Schedule PS 3 -Items 9 - 11  Questions:  The LCD-Wall is in one document defined as 2x2 55” configuration, in another as 4x2 55”  - What is the valid configuration?  - Can the wall be installed via wall mounts to a stable wall?  - Since DVI-connections are outdated, are Display-Port and HDMI acceptable?  - Do you require LCDs with Audio outputs? What are the requirements and use cases for the Audio ports? Modular LCDs for Videowall configurations usually do not have an Audio Input/Output | Book 3  5.11 Video Wall / Price Schedule PS 3 -Items 9 - 11 | 142 | **A:**  - The LCD-Wall configuration for TCC Negotino (South) is defined as 2x2 55” (the other one of 4x2 55" is for TCC Petrovec (North)).  - The Video wall can be installed via wall mounts  - The Display-Port and HDMI is acceptable.  - The LCD-Wall is acceptable without audio-output. | Clarification |
| 143 | **Q:**  Book 3 5.11 Video Wall controller / Price Schedule PS 3 -Items 9 - 11  Questions:  After there are different specifications as well the exact configuration needs to be confirmed we have following questions:  - Is an HP workstation incl. Matrox Mura graphic cards a must? Is a different brand acceptable?  - Is the Operating system defined or can it be chosen, based on fulfilling the required functionality?  - How many Inputs and types are required for the Video Wall controller?  - 2x Matrox Mura MPX graphic card 4 DVI inputs and 4 DVI outputs > Does this mean 2x 4 DVI Inputs? | Book 3  5.11 Video Wall / Price Schedule PS 3 -Items 9 - 11 | 143 | **A:**  - The equivalent graphic cards and/or brands are acceptable, based on fulfilling the required functionality.  - The Operating System can be chosen, based on fulfilling the required functionality.  - The Video Wall controller with 4 inputs and 4 outputs is required.  - 2 x 2 DVI inputs and 2 x 2 DVI outputs. | Clarification |
| 144 | **Q:**  Book 3 5.11 Video Wall controller / Price Schedule PS 3 -Items 9 - 11  - 8 digital outputs / 10 digital inputs  Questions: what type is requested, dry contacts or digital video signal? What shall IO be used for? | Book 3  5.11 Video Wall / Price Schedule PS 3 -Items 9 - 11 | 144 | **A:**  The Video wall controller with not less than:  - 8 digital outputs to Video wall,  - 10 digital inputs from video cards. | Clarification |
| 145 | **Q:**  Book 3 5.11 Video Wall controller / Price Schedule PS 3 -Items 9 - 11  Questions: The video wall computer equipment and the corresponding software enable simultaneous display of 64 digitized video signals due to usage of multi-displays from Video Player and the graphic user interface of the integrated traffic system.  - What type are the digitized video signals (H.264 …, ?)  Should they all be decoded and displayed simultaneously?  - What external PCs (number, types and resolution) are expected to show at the Video wall? | Book 3  5.11 Video Wall / Price Schedule PS 3 -Items 9 -13 | 145 | **A:**  Digitized video signals are H.264 / H.265 type.  The video wall will display multiple cameras at the Operator's choice or predefined camera layouts depending on incident events (e.g. camera before, camera of the incident and camera after)  The number of workstations and technical specifications are stated in the Price Schedule 1-6, schedule 3, Item no. 11. The resolution is 1920x1080. | Clarification |
| 146 | **Q:**  Book 3 5.11 Video Wall controller / Price Schedule PS 3 -Items 9 - 11  Questions:  Video Wall connection  - Two channel DVI video signal distributor, 4 pc. required? Or different solution acceptable?  - 10 x two-channel DVI video signal distributor (1:2)? Which number and for what purpose requred?  - If Controller and LCDs are using different connections (Display port or HDMI), is this acceptable instead of DVI | Book 3  5.11 Video Wall / Price Schedule PS 3 -Items 9 - 11 | 146 | **A:**  - Different solution is acceptable, but based on fulfilling the required functionality.  It is important that 4 signals should be split on TCC Negotino (South) and 8 signals on TCC Petrovec (North), in accordance with the number of monitors for the Video wall.  -The DVI video signal distributor serves to split the signal between the output of the video player computer and the input of the video wall controller. The split signal goes to the video wall controller and directly to the monitor. Its purpose is that in the event of a video controller failure, it is still possible to display images from the cameras on the monitor.  - It is acceptable to offer different connections, but in the event that a solution of graphics cards with Display port or HDMI is offered, then the video splitter (distributor) will be Display port or HDMI and not DVI. | Clarification |
| 147 | **Q:**  Book 3 6.1.2 Phone Call System (TPS, SOS)  Question: This type of equipment is not in the price schedule - please advice which equipment shall be included or whether this part of the specification can be ignored. | Book 3 6.1.2 Phone Call System | 147 | **A:**  Emergency telephone management system (Telephone Call System) is not a part of this bidding documentation. | Clarification |
| 148 | **Q:**  With reference to General Conditions of Contract Clause 9.1 “Contractor’s Responsibilities”, it is expected that in addition to supply and installation responsibilities, the Contractor is expected to design the Facilities. Instead of generic wording, would you please clearly add/define the design activities expected from the Contractor within the Employer’s Requirements for the Bidders. This is not very clear since there are many drawings/designs/specifications are presented within the Employer’s requirements which have been designed and developed for the Project. We assume the Contractor has no design responsibility, so that Contractor has no costs to be included within its pricing. | RFB - Price schedule 7-12 | 148 | **A:**  Please check Price schedule 7-12 and take into account all design documentation stated in particular items for which the Contractor is responsible and for which items prices should be stated. | Clarification |
| 149 | **Q:**  Please also state how will be the approval procedure of the Employer if there will be Contractor’s design submissions (if Contractor will design any item of the Facilities) and if other stakeholders will be involved for such approval process. Please define which stakeholders shall be involved and their responsibility during the approval processes. Please add a schematic description for the Bidder’s to understand it as well. | RFB – Section VII - Employer’s Requirements  and  RFB - Section X – Contract Forms - Appendix 1 - Terms and Procedures of Payment | 149 | **A:**  The Supervisor (Consultant appointed by the Employer) is engaged and payed by the Employer in accordance with national legislative. The Supervisor Consultant is authorized by the Employer to check, approved and confirm performed installation and integration of deployment of ITS including design documents, prior to approval by the Project Manager. Also, the Supervisor Consultant will approve invoices prior to approval by the Project Manager. | Clarification |
| 150 | **Q:**  With reference to “Section IV Bidding Forms” - Construction Schedule - Implementation plan, an activity has been mentioned as “as build detailed design”, could you please confirm if this is solely providing as-built drawings of the Facilities to the Employer after the completion of the Facilities. Please confirm that it is the only design related responsibility of the Contractor, to provide the red-mark up on the drawings included in the Employer’s Requirements to be named as “as-built drawings” ? | RFB - Section IV - Bidding Forms | 150 | **A:**  According to the Article 51 from the national Law for building, as-build design project is project who presenting the actual state of the constructed facility.  **Only red mark up on the drawings is not acceptable.** | Clarification |
| 151 | **Q:**  According to Particular Condition of Contract, The Project Manager is named as “Ms. Harita Pandovska – PIU Project Director”. Could you please detail which entity “Ms. Harita Pandovska” works for  and is it a party to the Contract? | RFB – Section VII – GCC and Section IX – PCC 1. | 151 | **A:**  The Employer is: Ministry of Transport and Communications  The Project Manager is: Ms. Harita Pandovska – PIU Project Director  **“Project Manager” means the person appointed by the Employer in the manner provided in GCC Sub-Clause 17.1 (Project Manager) hereof and named as such in the PCC to perform the duties delegated by the Employer.** | Clarification |
| 152 | **Q:**  The Conditions of the Contract, especially General and Particular Conditions are detailing the responsibilities and the obligations of the Project Manager. In case if the Project Manager will/may not fulfill such responsibilities and the obligations defined under the Condition of the Contract, please confirm that the Employer will be responsible to the Contractor due to Project Manager’s acts, omissions, and defaults? If this is the case, please add such descriptions within the Particular Conditions as a new clause. | RFB – Section VII – GCC and Section IX – PCC 1. | 152 | **A:**  **The responsibilities of Employer and Contractor are defined with Contract. No additional responsibilities will be added in the PCC. The potential Bidders cannot request changes in the PCC based on their assumptions.** | Clarification |
| 153 | **Q:**  What does “basic design” mean as mentioned in most of the drawings? This is not defined in the General Conditions Part A- Contract and Interpretation under Clause 1. “Definitions”. Please add a definition. | RFB – Annex 1 | 153 | **A:**  According to the Article 47 from the national Law for building: The basic project is a set of mutually harmonized projects that provide a technical solution of the building/facility, showing the placement of the building/facility in the site and the fulfillment of the basic requirements for construction. | Clarification |
| 154 | **Q:**  Some of the tenders documents and drawings are provided in N. Macedonian language and potentially without their translated versions. Can you please confirm that we received all documents in a translated version, since we cannot assess whether this is the case. Per the World Bank’s “Procurement Regulations for IPF Borrowers” dated July 2016, revised November 2017 and August 2018 (“Procurement Regulations”) for the Biddings which will be conducted through international competitive procurement method, the tender files in local language should have been translated to the tender language which is English? | RFB – Annex 1 | 154 | **A:**  All content of Annex 1 - Design Books and Drawings, are presented in English and Macedonian language. There is no “potentially” untranslated documents. | Clarification |
| 155 | **Q:**  Please confirm the given email address for the tender bid submissions / questions “procurement.piu.mtc@gmail.com;” is correct and belongs to the Ministry of Transport and Communication. | RFB - SPN | 155 | **A:**  Responsible for implementing and following all Contracts under WBTTFP project is Project Implementation Unit (PIU) within Ministry of transport and communication. The stated email address is correct, opened by PIU and official in the bidding procedure. | Clarification |
| 156 | **Q:**  Due to  • the nature of the project,  • extreme volatility in the prices of the supply market  • fixed priced contracts are not being priced by suppliers.  • Existence of Inflation in most of the markets and cost of employment is increasing  • the depression of economies of the many countries which suppliers are based, (most of the countries, the World Bank is also operate and aware of the situation)  and considering the scope of supply is comprehensive and duration of the project is long as given as 56 weeks, provided that the Effective date is not defined and certain in the tender documents (it is allowed to be shifted as per the Contract Agreement Article 3), therefore please revise the PCC 11.2 , and please add a fair price escalation formula under Contract Agreement to be accounted during the project execution. | RFB – Section II – BDS – ITB 17.7  and  Section IX – PCC 11.2 | 156 | **A:**  As per BDS – ITB 17.7  **The prices quoted by the Bidder shall not be subject to adjustment during the performance of the Contract.**  As per PCC 11.2:  **The Contract Price shall not be adjusted.**  **Both clauses will remain unchanged.** | Clarification |
| 157 | **Q:**  Employer’s Requirements, page 161, The Contractor must appoint a person in charge for the both GRMs (e.g., might be the ES Expert and/or OHS Expert). Please specify the job descriptions of such persons. | RFB – Section VII - Employer’s Requirements | 157 | **A:**  The Contractor shall comply with all applicable environmental and social regulations and laws in the Country, as well as World Bank Policies and Operational policies triggered by the project activities. As part of the ESHS, the Contractor is obligated to develop Grievance Redress Mechanism (GRM) for the labor workforce and other separately Grievance Redress Mechanism for the affected local people (community). The Contractor must appoint a person in charge for the both GRMs (e.g., might be the ES Expert and/or OHS Expert). | Clarification |
| 158 | **Q:**  With reference to Contract Agreement Article 1.1 and 1.2, the order of the precedence is given. However, the Employer’s Requirements are not mentioned in this listing under Article 1.1. Please confirm if the Employer’s Requirements will be a part of the Contract.  Moreover, please specify/group the tender documents if to be a part of the Article 1.1.e “Specifications” and Article 1.2.f “Drawings”. There is a confusion in the order of the precedence of the tender/contract documents. | RFB - Section X – Contract Agreement | 158 | **A:**  All content of Annex 1, including RFB with Employer’s Requirements, Specifications and Drawings, is part of the Contract. In the RFB and Annex 1 are clearly stated what are the Requirements, Specifications and Drawings. | Clarification |
| 159 | **Q:**  Please revise the Contract Agreement Article 3.2, and reduce the given duration from 2 months to 1 months’ time because no validity is being given for such  long duration for the pricing. | RFB - Section X – Contract Agreement | 159 | **A:**  The Contract Agreement Articles will remain unchanged. Duration of 2 months stated in the Article 3.2 remain unchanged. | Clarification |
| 160 | **Q:**  Please define how the World Bank will be involved in the Payment mechanism? | RFB - Section X – Contract Agreement | 160 | **A:**  All request for payment from the Contractors will be processed by the Employer - Ministry of transport and communication of Republic of North Macedonia.  Responsible for implementing and following all Contracts under WBTTFP project is Project Implementation Unit within Ministry of transport and communication. The World Bank is not “party” in the Contract | Clarification |
| 161 | **Q:**  Please add a clause within the Conditions of Contract, clearing defining how the payment will be made to the Contractor by the Employer if the credit of the Employer for the Project, will be suspended by the World Bank (which sometimes happens in the World Bank financed projects.) | RFB - Section X – Contract Agreement | 161 | **A:**  All request for payment from the Contractors will be processed by the Employer - Ministry of transport and communication of Republic of North Macedonia.  Responsible for implementing and following all Contracts under WBTTFP project is Project Implementation Unit within Ministry of transport and communication. The World Bank is not “party” in the Contract. | Clarification |
| 162 | **Q:**  With reference to Contract Agreement Appendix 1 “Terms and Procedures of Payment”, it has been mentioned that there is a consultant who has been appointed by the Employer. Since the consultant is not a party to the Contract and this is not defined in the Condition of the Contract, it is confusing to contact him for the payment and against the payment procedures as defined in World Bank procedures & Conditions of the Contract.  The Consultant’s responsibilities, obligations, involvement to the Project, and all the cases for the acts and omissions , defaults of the consultant including the time related precedence shall be clearly defined under the Conditions of the Contract. | RFB – Section VII - Employer’s Requirements  and  RFB - Section X – Contract Forms - Appendix 1 - Terms and Procedures of Payment | 162 | **A:**  The Supervisor (Consultant appointed by the Employer) is engaged and payed by the Employer in accordance with national legislative. The Supervisor Consultant is authorized by the Employer to check, approved and confirm performed installation and integration of deployment of ITS, prior to approval by the Project Manager. Also, the Supervisor Consultant will approve invoices prior to approval by the Project Manager. | Clarification |
| 163 | **Q:**  Please confirm if the temporary traffic diversions and their design will be approved only by the Employer and to be executed as in the design. If any other party to be involved for any road diversion or any traffic related activity, please specify in the Employer’s requirements. We assume no responsibility for any permit to be taken from the third parties or other stakeholders. | RFB - Price schedule 7-12 - Price Schedule No. 7 - Traffic Part - Item no. 4 | 163 | **A:**  According to the Article 348 from the Law for road traffic safety, the traffic (also temporary) regime on highways, arterial and regional roads, on base of traffic design project (also temporary), with Decision is established by the Ministry of Transport and Communications, by prior consent of the Ministry of Interiors and Public Enterprise for State Roads. | Clarification |
| 164 | **Q:**  Please confirm if the preparation of a traffic design for a temporary traffic regime and maintenance of temporary traffic signaling and equipment will be performed by the Employer including all permits from respective entities. (traffic department, ministry of transportation etc..) | RFB - Price schedule 7-12 - Price Schedule No. 7 - Traffic Part - Item no. 4 | 164 | **A:**  No, please check Item no. 4, in Price schedule 7-12, Price Schedule No. 7 - Traffic Part. The Contractor is responsible for organizing the temporary traffic regime and maintenance of temporary traffic signaling and equipment. | Clarification |
| 165 | **Q:**  Please confirm there will be no delays due to the expropriation activities of the Site (as per General Conditions “Site” means the land and other places upon which the Facilities are to be installed, and such other land or places as may be specified in the Contract as forming part of the Site.)  since the expropriation has been completed and the Site is ready at the Effective Date for the construction activities. | RFB - Section VIII - General Conditions of Contract | 165 | **A:**  There are no any expropriation activities on the Site. | Clarification |
| 166 | **Q:**  Please confirm all landowners due to expropriation have been paid and moved out of the Site by the Employer and the Site has been cleared and waiting the Contractor to start his construction activities. (as per General Conditions “Site” means the land and other places upon which the Facilities are to be installed, and such other land or places as may be specified in the Contract as forming part of the Site.) | RFB - Section VIII - General Conditions of Contract | 166 | **A:**  There are no any expropriation activities on the Site. | Clarification |
| 167 | **Q:**  Employer’s Requirements page 128, the Approval of the Consultant for the completion of the works is very generic and confusing. It is as also open ended and against the procedure defined in the General Conditions.  Please remove this section from the Employer’s requirements or revise the General Conditions explaining all details clearly for all acceptance and completion procedures as inclusion of the consultant and World Bank’s personnel. | RFB – Section VII - Employer’s Requirements | 167 | **A:**  The **Supervisor (Consultant appointed by the Employer)** is engaged and payed by the Employer in accordance with national legislative. The Supervisor Consultant is authorized by the Employer to check, approved and confirm performed installation and integration of deployment of ITS, prior to approval by the Project Manager. Also, the Supervisor Consultant will approve invoices prior to approval by the Project Manager. | Clarification |
| 168 | **Q:**  Part of the project documentation, as included in the Employer’s Requirements, is the World Bank project financing documents (i.e. Book 1- BASIC TRAFFIC DESIGN- Basic Information and Parts from the Reference.) We think that these documents were prepared for the world bank financing program between World bank and the Employer. These files are not related to expected works from the Contractor, please remove such documents from the Contract Documents not to create confusion. | RFB – Annex 1 – Book 1 | 168 | **A:**  The project design documentation (Book 1-8, including Book 6 for TCC Petrovec) is prepared for all length of the Corridor X (172km), from BC Tabanovce to BC Bogorodica. The implementation of the project is divided in two parts andthe subject for this tender documentation is only the **SOUTH PART**, as defined within Books 1 – 8. The project documentation cannot be changed. | Clarification |
| 169 | **Q:**  There are quantities of works as identified in the Pricing Schedules (examples: 40.500 meters of cable channels or a given weight for gantries). What will be paid to the Contractor if these quantities will be increased due to Site conditions or change in detailed design phase? In any case, please confirm that the sum to be paid to the Contractor will be found by multiplying the actual quantity performed at the Site and the unit price given by the Contractor? We assume that the works are in re-measurable nature and unit price are requested instead of a single Lump sum price for the whole project. | RFB - Price schedule 1-6 and 7-12 | 169 | **A:**  This is Unit Price Contract based on Priced Bill of Quantities (Price schedule 1-6 and 7-12). The Contractor will be paid for the quantity of the work accomplished at the rate in the Bill of Quantities for each item.  The **Supervisor (Consultant appointed by the Employer)** will check and confirm quantities for all items in Price schedules. Payment will be as per approved quantities for each item multiplied with particular unit prices for that item, except for items with unit price defined with set or lump sum and where Quantity is 1. | Clarification |
| 170 | **Q:**  The Payment terms under the Contract Agreement Article 2.2 states that there may be a Letter of Credit to be issued to the Contractor, however, the payment conditions defined under the Appendix 1 - Appendix 1. Terms and Procedures of Payment states that 100% percent of the each schedule will be paid upon performance but the advance payment of 20% of the Contract Price will be deducted. Please specify more clearly how the Letter of Credit payments will be done, what sort of details requested from the Contractor to receive such L/C payments. | RFB - Section X – Contract Forms - Appendix 1 - Terms and Procedures of Payment | 170 | **A:**  As per Contract Agreement – sub-article 2.2 - Terms of Payment (Reference GCC Clause 12):  “The terms and procedures of payment according to which the Employer will reimburse the Contractor are given in the Appendix (Terms and Procedures of Payment) hereto.”  The payment will be in accordance of conditions defined under the Section X – Contract Forms - Appendix 1 - Terms and Procedures of Payment.  The Letter of Credit will not be used.  All request for payment from the contractors will be processed by the Employer - Ministry of transport and communication of Republic of North Macedonia.  Responsible for implementing and following all contracts under WBTTFP project is Project Implementation Unit within Ministry of transport and communication. | Clarification |
| 171 | **Q:**  If during the performance of the works, if some work activities which were defined under any of the payment schedule (1 to 6 or 6 to 12) are progressed in a certain level but not completed at every location as per the definitions of General Conditions, will this performance of the Contractor of such item of work be payable by the Employer?  (Especially the items having quantity of “1” and having generic definitions in the Payment schedules, as an example; the temporary traffic management or diversions) | RFB - Price schedule 1-6 and 7-12 | 171 | **A:**  For all items in the Price schedules where Unit are defined with set or lump sum and Quantity is 1, the Bidders should state price which include all costs for all described in particular item. | Clarification |
| 172 | **Q:**  Is it acceptable if the bidder relay on the capacities of other entities to fulfill the Evaluation and Qualification criteria set out under part III of the RFB document including the representative and other key personnel described in the Employer’s requirements? Does this mean that this entity should be appointed as a subcontractor or specialized subcontractor? | Section III – Evaluation and Qualification Criteria | 172 | **A:**  The **Bidder as single entity or Joint Venture members** should fulfill the Evaluation and Qualification Criteria, Key Personnel requirements and the other requirements.  **The subcontractor or specialized subcontractor is not Bidder or JV member thus cannot fulfill Criteria set up in the Section III for Bidder or JV.**  **Only exception is in case of subcontractor nominated by the Bidder or JV who hold License for performance of technical security services.**  **The nominated sub-contractor must be stated in the Bid, must have signed Contract for engagement with the Bidder or JV (all members) and copy of License must be submitted in the Bid.**  **Please see Amendment no. 2.** | **Amendment** |
| 173 | **Q:**  Article 1.1 from the General Conditions of the Contract contains definition for Subcontractor: “Subcontractor,” including manufacturers, means any person to whom execution of any part of the Facilities, including preparation of any design or supply of any Plant, is sub-contracted directly or indirectly by the Contractor, and includes its legal successors or permitted assigns.  Can you please clarify what is the meaning for ”Specialized subcontractor”? | Section III - Evaluation and Qualification Criteria | 173 | **A:**  Term specialized subcontractors is mentioned in the Section III - Evaluation and Qualification Criteria - 2. Historical Contract Non-Performance - 2.5 Declaration: Environmental and Social (ES) past performance, and refers to ES subcontractors in regard to eventual previous non-performance.  Specialized subcontractors should be listed in Section IV - Bidding Forms – Form CON - 3 - Environmental and Social Performance Declaration, as is stated in the Form CON – 3.  Subcontractors should be listed in the Section IV - Proposed Subcontractors for Major Items Installation Services. | Clarification |
| 174 | **Q:**  Please clarify wheter subcontractors and specialized subcontractors are allowed in this public procurement? If subcontractors and specialized subcontractors are allowed, please clarify which of the Evaluation and qualification criteria in Section III will be evaluated for acceptability of their capabilities. | Section I – ITB 39 - Eligibility and Qualification of the Bidder | 174 | **A:**  As per stated in Section I – ITB 39 - Eligibility and Qualification of the Bidder:  39.1 The Employer shall determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated cost and substantially responsive Bid is eligible and meets the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.  39.2 The determination shall be based upon an examination of the documentary evidence of the Bidder’s qualifications submitted by the Bidder, pursuant to ITB 15.1. The determination shall not take into consideration the qualifications of other firms such as the Bidder’s subsidiaries, parent entities, affiliates, subcontractors (other than Specialized Subcontractors if permitted in the bidding document) or any other firm(s) different from the Bidder. | Clarification |
| 175 | **Q:**  Our Company is interested in submitting an offer for the tender entitled Deployment of Intelligent Transport Systems (ITS) on highway A1 (Corridor X) - South Part – chainage from km 74+950.00 (Interchange Veles South) to km 172+127.44 (Border crossing Bogorodica) - Provision, Installation and Commissioning of software, hardware and road monitoring devices as well as training on ITS systems for the operator staff. According to the competition, some technical experience and a certain financial sufficiency are required. Our company has participated in open tenders in the countries of the European Union in which, in accordance with European standards, we could borrow experience from other companies so that we could meet the criteria that were requested each time, as happens in this particular tender. According to the law that applies to public tenders that take land in the country of North Macedonia and in accordance with article 96 if any company does not meet all the selection criteria to participate in any tender it has the possibility based on this article to receive borrowed experience from other companies in order to meet the criteria. The question we ask your Service is if our company as the main bidder / participant can borrow experience in order to cover all the criteria required by the competition in question. We ask for your answer as soon as possible, as according to your answer it will be assumed that we will be able to meet all the criteria because we need time to be able to meet the requirements of the competition. We hope for your positive response taking into account the law on public tenders in North Macedonia. We attach you the file with the Law for public tenders in North Makedonia. | SPN  and  RFB-BDS | 175 | **A:**  As per stated in the SPN and RFB-BDS-ITB 2.1, the Bidding will be conducted through international competitive procurement using a Request for Bids (RFB) as specified in the World Bank’s “Procurement Regulations for IPF Borrowers” dated July 2016, revised November 2017 and August 2018 (“Procurement Regulations”), and is open to all eligible Bidders as defined in the Procurement Regulations.  Macedonian Law on Public Procurement is not applicable law for this bidding.  The Bidders cannot “borrow” experience in order to cover all the criteria required, but the Bidders can form a JV to cover all the criteria required including experience.  The Bidders should fulfill requirements stated in the RFB in ALL Parts and Sections. | Clarification |
| 176 | **Q:**  Please explain what information/data is required in the field "Physical production rate" in Form EXP –4.2(a) (cont.) | Form EXP –4.2(a) (cont.) | 176 | **A:**  Description/Information for Physical Production Rate is not required. This field may remain blank. | Clarification |
| 177 | **Q:**  Please explain what content and level of details is required to be described by the Bidder under Chapter "Site organization" | Section IV Bidding Forms | 177 | **A:**  This is part of the Bider Technical Proposal. The "Site" is with length of 98 km, description of Site organization is standard in all works and depends on characteristic of the "Site" in colerration with all other parts of Technical Proposal. | Clarification |
| 178 | **Q:**  Please explain what content and level of details is required to be described by the Bidder under Chapter "Method Statement" | Section IV Bidding Forms | 178 | **A:**  *Already answered under no. 67 in Clarification.*  The Bidder should describe method for performing works for deployment, implementation and integration of ITS systems, i. e. full description of proposed solution for deployment of ITS. | Clarification |
| 179 | **Q:**  Bidder is acting as international developer and integrator and consequently does not obtain insurances for those parts of works the bidder is regularly subcontracting.  Please confirm that the bidder is allowed to substitute insurance requirements by presenting respective insurance certificates obtained by its subcontractors. |  | 179 | **A:**  Insurance should be provided by single Bidder or Joint Venture that will submit the Bid. Insurance certificates obtained by subcontractors are not acceptable. | Clarification |
| 180 | **Q:**  Please explain what information/data is required in regards to requested 'organizational chart' in document Eli 1.2, point 8. | Form ELI 1.2  Party to JV Information Sheet | 180 | **A:**  Information in regard to company structure. | Clarification |
| 181 | **Q:**  Could you kindly clarify whether scanned copies of original documents, such as company excerpts, financial reports, signed manufacturer authorizations, etc., are acceptable for submission? Alternatively, do these scans need to be notarized? |  | 181 | **A:**  Scanned copies of original documents and translation if original documents are not on English language are acceptable for submission. Scans not need to be notarized. | Clarification |
| 182 | **Q:**  Could you please provide clarification regarding the specific data requirements for the bidding form ELI 1.1 and 1.2:  - In both forms ELI 1.1 and 1.2 in point 8 there is a requirement to include: a copy of an „organizational chart“. Please explain what you mean by an organizational chart, is it the graphic diagram of the company structure?  - In form ELI 1.1 if the bidder is a JV consortium (not constituted in a legal entity, only with a signed JV agreement) should the organizational chart be provided separately for all JV parties i.e. the same as in ELI 1.2? | ELI 1.1 and ELI 1.2 Bidding Forms | 182 | **A:**  "Organizational chart“ may be presented with the graphic diagram of the company structure.  In case of JV the organizational chart should be provided separately for all JV parties. | Clarification |
| 183 | **Q:**  While a definition of the term "Subcontractor" can be found in section VIII GCC (clause 1), in the versious forms to be submitted (i.e. Form Con-3) the capitalized term 'Specialized Subcontractor' is used without this terms to be defined in the tender documentation. Please clarify (1) what is to be understood under the term "Specialized Subcontractor" (2) what is the difference between "Subcontractor" and "Spezialised Subcontractor". | Section VIII, General Conditions of Contract | 183 | **A:**  *Already answered under no. 14 and 173 in Clarification*  Term specialized subcontractors is mentioned in the Section III - Evaluation and Qualification Criteria - 2. Historical Contract Non-Performance - 2.5 Declaration: Environmental and Social (ES) past performance, and refers to ES subcontractors in regard to eventual previous non-performance.  Specialized subcontractors should be listed in Section IV - Bidding Forms – Form CON - 3 - Environmental and Social Performance Declaration, as is stated in the Form CON – 3.  Subcontractors should be listed in the Section IV - Proposed Subcontractors for Major Items Installation Services. | Clarification |
| 184 | **Q:**  Can key personnel be engaged with a Contract of Work (Contract for Deed) or Agreement for Business-Technical Cooperation?  If the answer is yes, should a personal statement (certificate of taxes paid, etc.) be submitted for each person? |  | 184 | **A:**  Yes, key personnel may be engaged with a Contract or Agreement.  Payment for key personnel (and respective taxes) are responsibility of Bidder. Key personnel are not part of Price schedules. | Clarification |
| 185 | **Q:**  Please confirm understanding that in case of an Joint Venture also License A needs to be provided only by one member of the joint venture. Otherwise, if all members have to provide this License A this requirement will limit competition as companies not already in Macedonia will likely not be able to participate because of the risk not to be able to apply and/or being granted with this License A in time. | RFB - Section II - Bid Data Sheet, Part C. Preparation of Bids, item ITB 11.1 (j) - Item 4. -Documentary evidence | 185 | **A:**  As stated in ITB 11.1 (j) - Item 4. Documentary evidence:  - License A or Confirmation issued by Ministry of transport and communications:  Note to Bidders: According to the national legislation, the awarded Bidder (or JV) should obtain and possess a License A or Confirmation for performance of construction works issued by Ministry of transport and communications, prior to Contract Signing. Copies of the required License A or Confirmation should be submitted to Employer prior to Contract signing.  **The single Bidder or JV may nominate sub-contractor** with License A for performance of construction works, as a part of deployment of ITS Systems. The nominated sub-contractor must be stated in the Bid, must have signed Contract for engagement with the Bidder or JV (all members) and copy of License A must be submitted in the Bid.  **The nomination of sub-contractor does not exclude requirement for obtain and possess License A or Confirmation for Single Bidder, as well as for Lead member of JV.**  Copies of the required License A or Confirmation should be submitted to Employer prior to Contract signing.  **Please see Amendment no. 3.** | **Amendment** |
| 186 | **Q:**  Please confirm whether Form EQU in Section 9 in Proposal has to be completed. The key Contractor’s equipment is not listed in Section III, Evaluation and Qualification Criteria. Part 2.6 Equipment in Section III is missing (ref. Table of Criteria, page 48). | Section III, Evaluation and Qualification Criteria. Part 2.6 Equipment  and  Section IV - Bidding Forms – Form EQU | 186 | **A:**  Requirements for the key Contractor’s equipment are not listed in Section III – Part 2.6.  The Bidder shall provide adequate information to demonstrate clearly that it has the capability and needed equipment to perform the deployment of ITS systems, as per method and work plan proposed by the Bidder.  **A separate Form EQU shall be prepared for each item of equipment proposed by the Bidder.** | Clarification |
| 187 | **Q:**  - EN 50556 Certificate  Our devices are under the test for EN 50556. For now, we can provide declaration of conformity instead of this certificate.  Is it appropriate for you or not? If not, we will use an other product which has it already | RFB - Section VII – Employer’s Requirements - Specification | 187 | **A:**  As per stated in the RFB (Section VII – Employer’s Requirements, Detailed Technical Specifications - Item no. 1, 2 and 3) and Price schedule 1-6 (sheet no. 1 – Item no. 1, 2 and 3): “Manufacturer need to apply declaration of conformity for electronic device safety regulations which needs to be proved by testing reports from authorized laboratories and made for variable message sign products according to: HD 60364-4-443:2016 Electrical Installations of Buildings – Part 4: Protection for Safety and EN 50556:2018 Road traffic signal systems”. The Bidders should offer the devices that fulfilled statement above. | Clarification |
| 188 | **Q:**  - Bid Security Declaration  We understand that no provisional guarantee or bank guarantee is required in ITB 20.01 of the specification for this.  Could you please confirm that only a declaration is sufficient? | RFB – BDS – ITB 20.1 | 188 | **A:**  As per BDS-ITB 20.1: A **Bid-Securing Declaration** **shall be** required. | Clarification |
| 189 | **Q:**  - Existing ITS Equipment  Are there ITS products already in the field? If so, is integration required or not? | RFB - Section VII – Employer’s Requirements | 189 | **A:**  The existing Tunnel control and management system for Demir Kapija tunnels in the Tunnel Control Center in Negotino is working as separate ITS system and **is not part of this bidding** documentation. Integration is not required. | Clarification |
| 190 | **Q:**  Please clarify clauses PCC 13 and PCC 27: Clause PCC 13.3.3 (correct 13.3.4) foresees reduction of Performance Security pursuant to GCC Sub-clause 27.10, while PCC 27 stipulates clause 17.10 to be not applicable. Can you please consider a reduction of the Performance Security by 50% for the Defect Liability Period. | RFB - Section IX – PCC 13, PCC 27 | 190 | **A:**  As per GCC-PCC 27.10: **Not applicable.**  The extended defect liability is **not** requested.  As per GCC-PCC13.3.3: The Performance Security shall **not** be reduced on the date of the Operational Acceptance. | Clarification |
| 191 | **Q:**  Please confirm understanding that clause 30 of the General Conditions of Contract applies, and clause 30 of the PCC relates only to the multiplier. | RFB - Section VIII and Section IX -GCC 30, PCC 30 | 191 | **A:**  As per Section IX – ParticularConditions of Contract - PCC 30: Limitation of Liability is **Not applicable.**  **This relates only to the sub-clause 30.1 (b).**  The multiplier of the Contract Price is not applicable. | Clarification |
| 192 | **Q:**  Given the fact that the Contractor is obliged to provide Spare Parts up to 5 years after Operational Acceptance, we kindly ask for Price adjustment (Indexation clause) as the Contractor can not influence the equipment prices of its suppliers for a period of 5 years. | RFB - Section IX – PCC 11, Contract Price | 192 | **A:**  As per Section IX – ParticularConditions of Contract - PCC 11.2: The Contract Price shall **not** be adjusted.  As per PCC – GCC 7: “The Contractor agrees to supply spare parts for a period of years: Five (5) years“.  There is no request for offering in the Bid particular spare parts and quantities for spear parts. The Contractor has obligation to provide spear parts for deployed ITS systems during 5 years period **if requested** by Beneficiary.  As per BDS – ITB 17.7  **The prices quoted by the Bidder shall not be subject to adjustment during the performance of the Contract.**  As per PCC 11.2:  **The Contract Price shall not be adjusted.**  **Both clauses will remain unchanged.** | Clarification |
| 193 | **Q:**  Please clarify why a letter of credit is required for spare parts deliveries as stipulated in PCC 7 Scope of Facilities (Spare parts GCC Clause 7), as it is quite costly and time-consuming. | RFB - Section IX - PCC 7 Scope of Facilities (Spare Parts) | 193 | **A:**  As per Contract Agreement – sub-article 2.2 - Terms of Payment (Reference GCC Clause 12):  “The terms and procedures of payment according to which the Employer will reimburse the Contractor are given in the Appendix (Terms and Procedures of Payment) hereto.”  The payment will be in accordance of conditions defined under the Section X – Contract Forms - Appendix 1 - Terms and Procedures of Payment.  **The Letter of Credit will not be used.**  As per PCC – GCC 7: “The Contractor agrees to supply spare parts for a period of years: Five (5) years“.  There is no request for offering in the Bid particular spare parts and quantities for spear parts. The Contractor has obligation to provide spear parts for deployed ITS systems during 5 years period **if requested** by Beneficiary. | Clarification |
| 194 | **Q:**  Can you please confirm that Spare Parts will be ordered as Change Order. | RFB - Section IX - PCC 7 Scope of Facilities (Spare Parts) | 194 | **A:**  *Already answered under no. 49, 50, 65 and 193 in Clarification*  As per PCC – GCC 7: “The Contractor agrees to supply spare parts for a period of years: Five (5) years“.  There is no request for offering in the Bid particular spare parts and quantities for spear parts. The Contractor has obligation to provide spear parts for deployed ITS systems during 5 years period **if requested** by Beneficiary. | Clarification |
| 195 | **Q:**  Can you please clarify which Incoterms shall apply for this project?  Please confirm that Ownerhsip shall be transferred to the Employer upon loading on the mode of transport in the country of origin (GCC §31.1.), but risk is transferred (GCC 31.5.) until Completion of the Facilities.  Can you please clarify in which name Customs Clearance (PCC 21.4.) shall be handled under the terms applicable for transfer of risk and ownership. | RFB - Section VIII - GCC 31.1., GCC 31.5, GCC 21.4. | 195 | **A:**  As per BDS-ITB 17.6: The Incoterms edition is Incoterms 2020.  As per BDS-ITB 17.1: The Bidders shall quote for the entire Plant and Installation Services on a “single responsibility” basis. The total Bid price shall include all the Contractor’s obligations mentioned in or to be reasonably inferred from the bidding document in respect of the design, manufacture, including procurement and subcontracting (if any), delivery, construction, installation and completion of the Plant.  As per GCC 14.1: The Contractor shall bear and pay all taxes, duties, levies and charges assessed on the Contractor, its Subcontractors or their employees by all municipal, state or national government authorities in connection with the Facilities in and outside of the country where the Site is located.  As per GCC 32.1  The Contractor shall be responsible for the care and custody of the Facilities or any part thereof until the date of Completion of the Facilities pursuant to GCC Clause 24 or, where the Contract provides for Completion of the Facilities in parts, until the date of Completion of the relevant part, and shall make good at its own cost any loss or damage that may occur to the Facilities or the relevant part thereof from any cause whatsoever during such period.  **Ownership of the Plant shall be transferred to the Employer upon Completion of the Facilities.** | Clarification |
| 196 | **Q:**  Kindly specify the nature of equipment for which we are required to provide evidence of ownership and functionality (or evidence for equipment that is intended to be rented, leased, or specially manufactured). This request is outlined in the Documentary evidence ITB 11.1.(j).  It's worth noting that in Section III, Evaluation criteria, clause 2.6 Equipment, there is no mention of equipment at all. | RFB - Section I - ITB 11.1 (j)  Section II – BDS – 11.1 (j)  Section IV - Bidding Forms – Form EQU | 196 | **A:**  *Already answered under no. 186 in Clarification*  Requirements for the key Contractor’s equipment are not listed in Section III – Part 2.6.  The Bidder shall provide adequate information to demonstrate clearly that it has the capability and needed equipment to perform the deployment of ITS systems, as per method and work plan proposed by the Bidder.  **A separate Form EQU shall be prepared for each item of equipment proposed by the Bidder.** | Clarification |
| 197 | **Q:**  Question about Price Schedule no. 3 - Traffic Information System - TIS - Supply and Installation - Item 14 - Clarification and Rationale on RS232 and USB Ports for Workstation Monitor: Could you please confirm if the requirement for 1x RS232 and 24x USB ports is mandatory, or are there alternative configurations that could be considered? Could you provide more information on the specific use case or application that necessitates 1x RS232 and 24x USB ports? This will help us understand the requirement better. Would it be acceptable to consider monitors with a different port configuration, such as a lower number of USB ports or a different type of serial port, provided it meets the other technical specifications? | Section VII – Employer’s Requirements -Detailed Technical Specifications Items no. 13 and no. 16, and Price schedule 1-6 - sheet no.3 -TIS - Items no. 14 and no. 17 | 197 | **A:**  **Connectivity requirement: 24x USB**  for device “ 24'' Flat Panel Monitor” required in  Detailed Technical Specifications in Items no. 13 and no. 16, and Price schedule 1-6 - sheet no.3 -TIS in Items no. 14 and no. 17  **is changed in: 2 x USB**  **Please see Amendment no. 2.**  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | **Amendment** |
| 198 | **Q:**  Considering the current required hardware setup with two HDDs (in RAID 1) and two SSDs, it's important to acknowledge that achieving RAID 10 or RAID 50 configurations may not be technically feasible with the current configurations. RAID 10 requires a minimum of four drives, while RAID 50 typically necessitates at least six drives. Given our existing resources, it would be challenging to implement either of these RAID levels without substantial hardware upgrades. Therefore, to align with the system's requirements and available resources, it may be more practical to explore alternative RAID configurations or storage solutions. Would it be acceptable to consider workstations with RAID controllers that support RAID 0, 1, and 5, even if RAID 10 or 50 is not available? | Section VII – Employer’s Requirements -Detailed Technical Specifications Items no. 2, 3 and no. 15, and Price schedule 1-6 - sheet no.3 -TIS - Items no. 3, 4 and no. 16 | 198 | **A:**  RAID controllers with 10 and 50 configurations are required in order to increase the security and reliability of the system and the data that will be processed at the operating stations.  The Bidders should fulfill requirements for Controller as are requested: SAS/SATA/SSD RAID controller (RAID 0, 1, 5, 10 and 50). | Clarification |
| 199 | **Q:**  Question about Price Schedule No. 1 - TRAFFIC PART - Supply and Instalation - Item 16: Given the specific requirements of the system, it's imperative to consider the actual bandwidth needs for the application. FullHD video streams and data transfers for a maximum of 8 devices do not necessitate the high bandwidth capabilities provided by 10 Gigabit Ethernet SFP+ Slots. Furthermore the fiber connection to each location cannot provide such speeds. In fact, our calculations and testing have shown that a 2.5 Gigabit Ethernet connection is more than sufficient to handle these operations efficiently. Furthermore, it's important to note that the inclusion of 4 x 10 Gigabit Ethernet SFP+ Slots may lead to an unnecessary increase in cost without providing any tangible benefits for the intended use. In industrial environments, it's crucial to balance performance with cost-effectiveness, and in this instance, the additional SFP+ Slots are a substandard feature for our specific needs. We propose that by optimizing the switch configuration to include 2.5 Gigabit Ethernet ports instead, we can achieve the desired performance levels while maintaining a more economical solution. This adjustment not only aligns with our operational requirements but also helps in avoiding unnecessary expenditure on features that won't be utilized in the system. | Section VII – Employer’s Requirements -Detailed Technical Specifications Items no. 13, and Price schedule 1-6 - sheet no.1 -Traffic part - Items no. 16 | 199 | **A:**  For Industrial Fast Ethernet L3 10 Gbps switch requirements for:  - 4 x 10 Gigabit Ethernet SFP+ Slot  **remain unchanged.**  The Bidder should fulfill all specified requirements for this equipment. | Clarification |
| 200 | **Q:**  Can you please confirm that Traffic Tech Gulf can submit Bid, and in case of successful Bid, prior of Contract Signing with Ministry of Transport and Communications , Traffic Tech can sign contract with local company that posses required North Macedonia Licenses. | RFB - Section II - Bid Data Sheet, Part C. Preparation of Bids, item ITB 11.1 (j) - – Item 4. Documentary evidence: | 200 | **A:**  As stated in ITB 11.1 (j) - Item 4. Documentary evidence:  - License A or Confirmation issued by Ministry of transport and communications:  Note to Bidders: According to the national legislation, the awarded Bidder (or JV) should obtain and possess a License A or Confirmation for performance of construction works issued by Ministry of transport and communications, prior to Contract Signing. Copies of the required License A or Confirmation should be submitted to Employer prior to Contract signing.  **The single Bidder or JV may nominate sub-contractor** with License A for performance of construction works, as a part of deployment of ITS Systems. The nominated sub-contractor must be stated in the Bid, must have signed Contract for engagement with the Bidder or JV (all members) and copy of License A must be submitted in the Bid.  **The nomination of sub-contractor does not exclude requirement for obtain and possess License A or Confirmation for Single Bidder, as well as for Lead member of JV.**  **Please see Amendment no. 3.**  Copies of the required License A or Confirmation should be submitted to Employer prior to Contract signing.  - In case of License for performance of technical security services requirement **is changed – amended as follow**:  Note to Bidders: In case of single Bidder, the Bidder must possess License for performance of technical security services issued by Ministry of Interior of the Republic of North Macedonia, or the Bidder must nominate sub-contractor with License for performance of technical security services. **The nominated sub-contractor must be stated in the Bid, must have signed Contract for engagement with the Bidder and copy of License must be submitted in the Bid.**  In case of JV, at least one member of the JV must possess License for performance of technical security services issued by Ministry of Interior of the Republic of North Macedonia, or the JV must nominate sub-contractor with License for performance of technical security services. **The nominated sub-contractor must be stated in the Bid, must have signed Contract for engagement with the JV (all members) and copy of License must be submitted in the Bid.**  Original of the required License should be submitted to Employer by awarded Bidder (or JV) prior to Contract signing.  **Please see Amendment no. 2.** | **Amendment no. 2.**  **and**  **Amendment no. 3.** |
| 201 | **Q:**  Can you please confirm that for Engineers is also sufficient to have University degree in Electrical or Civil engineering (and other required discipline) and to be Authorized (Registered) engineer of Engineers & Engineering committee in their country. | Section VII – Employer’s Requirements -Contractor’s Representative and Key Personnel | 201 | **A:**  According to the Article 42, paragraph 2 and paragraph 5 of the Law on Construction, a foreign person who has an authorization from another country may carry out works on design, revision, implementation and supervision of constructions in the Republic of N. Macedonia if the authorization is confirmed by the Chamber of Certified Architects and Engineers.  Please check the link for future details:  [Комора на овластени архитекти и овластени инженери на РМ - ПРАВИЛНИЦИ И ОСТАНАТИ АКТИ - Упатства (komoraoai.mk)](https://www.komoraoai.mk/akti-na-komorata/pravilnici-i-ostanati-akti/category/10-akti-upatstva.html)  The confirmation of authorization is carried out by the Commission, which determines whether the authorization of a foreign person corresponds to the authorizations prescribed by this law.  If the Commission determines that the authorization corresponds, it issues a Confirmation of the authenticity and the type of authorization that the foreign person has acquired in the Republic of N. Macedonia.  All detail information’s are provided in the next linked documents:  [Упатство за работа на комисијата за потврдување на овластувања на странско физичко лице](https://www.komoraoai.mk/akti-na-komorata/pravilnici-i-ostanati-akti/category/10-akti-upatstva.html?download=31:upatstvo-za-potvrduvanje-na-ovlastuvanje-na-stransko-lice)  [BARANJE\_za\_potvrduvanje\_stransko\_ovlast\_vo\_RSM-1.pdf (komoraoai.mk)](https://www.komoraoai.mk/images/komora/apliciranje/stransko_lice/2023/BARANJE_za_potvrduvanje_stransko_ovlast_vo_RSM-1.pdf)  <https://www.komoraoai.mk/images/komora/apliciranje/stransko_lice/2023/UPATSTVO_za_rabota_na_Komisijata_za_potvrduvanje_na_stransko_ovlastuvanje-1.pdf> | Clarification |
| 202 | **Q:**  Please clarify if the contractor needs to interchange alerts and data between ATMS and Tunnel control systems. What will be the communication protocol to be used? | Book 3 TS. Chapter 1.1.2 & 1.2 pp 176, 177 | 202 | **A:**  *Already answered under no. 114 in Clarification.*  TCC South will operate with two teams of operators (one team for the supervision of the tunnels and one team for the supervision of the SOUTH sector).  The operators will manage their part of the work independently, but will make joint decisions for the Sector as a whole.  It is necessary to provide bidirectional data exchange of information between the two systems to communicate relevant data, failures and alarms.  The two systems will work independently regarding the sending of commands.  The central system needs to be able to launch traffic and incident plans affecting also the part of the highway within the tunnels, while the commands, which refer to the tunnel system, will be given by the operator of this system. | Clarification |
| 203 | **Q:**  Why is an RS232 port specified for the 24-inch full-screen monitor? Could you please provide insight into the intended use case or functionality that necessitates this port? Given the standard functionality of modern monitors, it seems unusual to include an RS232 port, which is more commonly associated with older equipment. Could you elaborate on the reasoning behind this requirement?  If there doesn’t appear to be a specific application for an RS232 port in our intended use, might you explore the possibility of revising or reconsidering this requirement?  This adjustment could potentially simplify the procurement process and contribute to cost-efficiency. It would also ensure that the specifications align closely with the actual needs of the system. | Section VII – Employer’s Requirements -Detailed Technical Specifications Items no. 13, and Price schedule 1-6 - sheet no.1 -Traffic part - Items no. 16 | 203 | **A:**  **Connectivity requirement: 1 x RS232**  for device “ 24'' Flat Panel Monitor” required in  Detailed Technical Specifications in Items no. 13 and no. 16, and Price schedule 1-6 - sheet no.3 -TIS in Items no. 14 and no. 17  **is deleted.**  **Please see Amendment no. 2.**  **Important note: For preparing their Bids, the Bidders should use revised Price schedule 1-6 (attached to this Clarification no.1) and original Price Schedules 7-12 as was submitted in Annex 1.** | **Amendment** |
| 204 | **Q:**  In consideration of the specifications provided for the dedicated graphics cards, we propose a slight modification to foster a competitive landscape. Instead of specifying specific Radeon graphics cards, could you establish a minimum performance threshold for the graphics card, allowing for equivalent or better alternatives to be considered? This adjustment would not only encourage a wider pool of potential suppliers but also ensure that you are promoting competition and innovation in the procurement process. By setting a performance standard, suppliers can propose graphics cards that meet or exceed the specified benchmark, which in turn could lead to more cost-effective solutions without compromising performance. Additionally, in reviewing the specified Radeon graphics cards, it's worth noting that the models listed are older iterations. Building on the proposed modification for the dedicated graphics cards, we kindly request a similar consideration for the Central Processing Unit (CPU) and Random Access Memory (RAM) specifications. Instead of specifying exact models or specifications, would it be possible to establish a minimum performance threshold for both the CPU and RAM, while also allowing for equivalent alternatives? This approach would not only promote a competitive environment but also provide room for potential cost-effective solutions that meet or exceed the specified performance requirements. It aligns with the aim of encouraging innovation and efficiency in the procurement process. | Section VII – Employer’s Requirements -Detailed Technical Specifications and Price schedule 1-6 - sheet no.3 -Traffic part - Items no. 3-7, 9, 11-14, 16, 17 | 204 | **A:**  The **minimum** required technical characteristics are given in the RFB and the Price schedule, as is stated in the Items 3-7, 9, 11-14, 16, 17. The **equivalent or better** graphic cards and/or brands, Central Processing Unit (CPU) and Random Access Memory (RAM) are acceptable, based on fulfilling the required functionality. | Clarification |
| 205 | **Q:**  Given the evolving landscape of technology, would it be possible to consider DDR5 memory modules as an alternative to DDR4, considering DDR4 is considered slightly dated in comparison? Additionally, with the advancements in memory capacity, could we explore the use of a single 16GB RAM module rather than the traditional 2 x 8GB configuration, as it aligns with the increased minimum RAM capacity for workstations in recent years? This adjustment could potentially offer improved performance and efficiency while keeping up with current industry standards. Your consideration on this matter would be greatly appreciated. | Section VII – Employer’s Requirements -Detailed Technical Specifications and Price schedule 1-6 - sheet no.3 -Traffic part - Items no. 3-7, 9, 11-14, 16, 17 | 205 | **A:**  The **minimum** required technical characteristics are given in the RFB and the Price schedule, as is stated in the Items 3-7, 9, 11-14, 16, 17. The **equivalent or better** memory modules are acceptable, based on fulfilling the required functionality.  The single 16GB RAM module rather than the traditional 2 x 8GB configuration is not acceptable. The Bidders may offer higher solution i.e. 2 x 16GB. | Clarification |
| 206 | **Q:**  Regarding the integrated Broadcom Dual-Port Gigabit (10/100/1000) network adapter, is it a requirement for this component to be specifically Broadcom-branded, or would equivalent network adapters from other reputable manufacturers also be acceptable? This clarification would help ensure that we are exploring a broader range of options while still meeting the specified technical criteria. | Section VII – Employer’s Requirements -Detailed Technical Specifications and Price schedule 1-6 - sheet no.3 -Traffic part - Items no. 3-7, 9, 11-14, 16, 17 | 206 | **A:**  The **minimum** technical characteristics are given in the RFB and the Price schedule, as is stated in the Items 3-7, 9, 11-14, 16, 17. The **equivalent or better** network adapters and/or brands are acceptable, based on fulfilling the required functionality. | Clarification |
| 207 | **Q:**  Regarding the specified HP 16GB (2x8GB) Dual Rank DDR4 RDIMM Registered memory, is it a strict requirement for the RAM modules to be HP-branded, or would equivalent modules from other reputable manufacturers also be considered? This clarification would allow for a broader selection of options and potentially lead to more competitive pricing while still meeting the specified technical criteria. | Section VII – Employer’s Requirements -Detailed Technical Specifications and Price schedule 1-6 - sheet no.3 -Traffic part - Items no. 3-7, 9, 11-14, 16, 17 | 207 | **A:**  The **minimum** technical characteristics are given in the RFB and the Price schedule, as is stated in the Items 3-7, 9, 11-14, 16, 17. The **equivalent or better** RAM modules and/or brands are acceptable, based on fulfilling the required functionality. | Clarification |
| 208 | **Q:**  Regarding the inclusion of an RS232C port for the video wall monitor, could you please provide insight into the intended use case or functionality that necessitates this port? Understanding its purpose would be valuable in ensuring that the monitor aligns precisely with our system's requirements. If it turns out that an RS232C port isn't essential for our intended application, could you kindly clarify why it is specified as a requirement? | Section VII – Employer’s Requirements -Detailed Technical Specifications - Item no. 10, and Price schedule 1-6 - sheet no.3 -Traffic part - Items no. 11 | 208 | **A:**  Different manufacturers on the market produce video wall monitors with RS232C port as connectivity option. The Bidders should fulfill requirements stated for this device. The requirement for RS232C **remain unchanged**. | Clarification |
| 209 | **Q:**  Could you please consider adjusting all specified measurements to meet „minimum requirements“, or alternatively, allow for equivalent alternatives that meet or exceed these standards? This adjustment would provide room for potential cost-effective solutions while ensuring that the specifications are closely tailored to the actual needs of the system. | Section VII – Employer’s Requirements -Detailed Technical Specifications and Price schedule 1-6 - sheet no.3 -Traffic part - Items no. 3-7, 9, 11-14, 16, 17 | 209 | **A:**  The minimum required technical characteristics are given in the RFB and the Price schedule, as is stated in the Items 3-7, 9, 11-14, 16, 17. The text in each of the mentioned Items start with: “minimum technical characteristics”. The **equivalent or better** technical characteristics and/or brands **are acceptable, based on fulfilling the required functionality.** | Clarification |
| 210 | **Q:**  **a)** As the Turnover Requirements in the ITS sector can hardly be fulfilled by local entities and these criteria are limiting participation of local companies in an JV, please explicitly confirm that a JV bidder is permitted to meet the criterion of license A by nominating a sub-contractor holding license A.  **b)** In case License A must not be provided by a sub-contractor  (i) Please confirm explicitly that JV formed by external companies only are allowed to participate in the procurement, because such companies will not be able to obtain License A  (ii) If JV formed by external companies only are allowed to participate, please confirm that it is sufficient for such JV to only provide Confirmation instead of granted license A  (iii) As companies internationally active in the procurement’s scope are usually no construction companies: Please confirm explicitly that for a JV it is sufficient that only one member will provide license A or respective confirmation  **c)** Please amend Turnover Requirements in the ITS sector to allow local companies to participate in the procurement not only as sub-contractors | RFB - Section II - Bid Data Sheet, Part C. Preparation of Bids, item ITB 11.1 (j) - Item 4. Documentary evidence: | 210 | **A:**  **a) and b)**  As stated in ITB 11.1 (j) - Item 4. Documentary evidence:  - License A or Confirmation issued by  Ministry of transport and communications:  Note to Bidders: According to the national legislation, the awarded Bidder (or JV) should obtain and possess a License A or Confirmation for performance of construction works issued by Ministry of transport and communications, prior to Contract Signing. Copies of the required License A or Confirmation should be submitted to Employer prior to Contract signing.  **The single Bidder or JV may nominate sub-contractor** with License A for performance of construction works, as a part of deployment of ITS Systems. The nominated sub-contractor must be stated in the Bid, must have signed Contract for engagement with the Bidder or JV (all members) and copy of License A must be submitted in the Bid.  **The nomination of sub-contractor does not exclude requirement for obtain and possess License A or Confirmation for Single Bidder, as well as for Lead member of JV.**  Copies of the required License A or Confirmation should be submitted to Employer prior to Contract signing.  **Please see Amendment no. 3.**  **A:**  **c)**  Considering question c), the requirement stated in RFB - Section III - Evaluation and Qualification Criteria – 3. Factor: Financial situation - Sub-Factor 3.2 Average Annual Turnover - Criteria for Joint Venture (existing or intended) - Each member, is:  *Must meet* ***twenty five percent (25%)*** *of the requirement*  **This requirement is deleted and now reads as follow for “Each member”:**  **N/A**  **Please see Amendment no. 3.** | **Amendment** |

**Please note that confirmation by e-mail of the receipt of this Clarification no.1 is compulsory!**

Yours sincerely,

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