

**CLARIFICATIONS NO.2 to
THE TENDER DOSSIER**

Contract Title: Supply of Equipment for Photovoltaic Applications for BOTAŞ and TEMSAN

**Publication
Reference:** NEAR/ANK/2021/EA-OP/0077

Location: Türkiye

Important Note: Regarding the opening session, which take its place on 28.02.2022, please note that only one representative from each tenderer will be allowed to participate in the meeting due to the pandemic.

Further to the requests received from the tenderers, the following clarifications are provided:

Instructions to Tenderers

No	Article No	Article	Clarification Request	Answer
1	1	Supplies to be provided	We would like to know if the scope of works includes the installation and commissioning of the PV systems or it is limited to the supply of them.	The scope of the work of the contract includes the supply, delivery, unloading, siting and installation, commissioning, testing, inspection, training and warranty services of the supplies. Please refer to the article 1 of the Instructions to Tenderers.
2	3	Participation	We are Taiwan company and we have reliable & qualified manufacturers in China and would like to know if we have the eligibility to participate this project. Please help to confirm what's the step that we should do if we want to join this.	Please refer to the Instructions to Tenderers setting out the rules for the submission, selection and implementation of contracts financed under this call for tenders. For the eligibility requirements please refer to the articles 3 and 4 of the Instructions to Tenderers. Please also refer to the “a2a_ecprogrammes_eligibility2014_2020_en” annex of PRAG for eligible countries.

Technical Specifications

No	Item No	Specification / Item	Clarification Request	Answer
1	Item 1.4	Data Logger and Remote Monitoring System	<p>a) What is the total requesting DC kWh value?</p> <p>b) Are all of the projects included in the tender a rooftop SPP?</p> <p>c) Will the energy analyzer information be transferred to the remote monitoring portal?</p> <p>d) For efficient monitoring, the minimum number and type of sensors must be determined. For this, information and drawings of the roof type and direction should be obtained (for each project)</p>	<p>a) Minimum total installed capacity (DC) of the each SPP can be found in the Annex II + III Technical Specifications and Technical Offer.</p> <p>b) All of the projects except TEMSAN Ankara project is ground type. Please refer to Appendix E to Annex II + III.</p> <p>c) Yes, the energy analyser information will be transferred to the remote monitoring portal. Please refer to the item 1.4.3 of the Annex II + III Technical Specifications and Technical Offer.</p> <p>d) It is being clarified within Appendix E to Annex II + III project drawings and Appendix D to Annex II + III under other requirements for data logger and remote monitoring system. Please refer to these documents.</p>
2	1.4.8.	The system shall enable reporting extraordinary events, faults and errors occurred at SPP instantaneously to the e-mail address and GSM numbers specified by the beneficiary.	<p>Sending SMS to GSM numbers require additional data plan to be purchased from SMS services from GSM operators. These services require additional monthly/annual fees to be paid to the service providers. Subscription to GSM services should be done by the end user as required by the law. The communication laws in Turkey do not allow entities to obtain GSM numbers on behalf/ for the use of other entities. Please confirm that the Provision acquisition of GSM data plans and monthly fees to be paid to the GSM operators for the sent SMS will be the responsibility of the end-user, or kindly consider removing the requirement of sending reports to the GSM numbers from the Technical Specifications.</p>	<p>Please be informed that “and GSM numbers” is excluded from the scope of the specification.</p> <p>Please refer to the Changes No.1 to Tender Dossier.</p>
3	Item 1.5	SCADA System	<p>a) Will the facility in the project be connected to the network from low voltage or medium voltage?</p> <p>b) Are the facilities in the project within the Oriented Strand Board?</p>	<p>a) The details concerning with the connections are provided within the Appendix E to Annex II + III. Please refer to these drawings.</p> <p>b) Please be informed that the details regarding the facilities are provided within the tender dossier. Please refer to Annex II + III Technical Specifications and Technical Offer.</p>

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No	Item No	Specification / Item	Clarification Request	Answer
4	2.16.3.	CCTV system shall also contain Dome IP cameras with night vision and zoom feature at sufficient quantity to enable aerial viewpoint of the SPP. Proper lens characteristic shall be selected to enable sufficient video quality.	As general practice at SPPs, dome cameras cannot be used due to 2 main reasons. First, the dome cameras are not designed to function outdoors since there is no ceiling outdoors. When it is installed on the lighting column, the column will always block a part of the view of the camera. Second reason is that, for an aerial view of a site the dome camera should be placed at the centre of the site to cover the site 360 degrees. Please be advised that no column or camera can be installed at the centre of the site due to shadowing problem that it will create on PV panels. Since the installation site is a solar power plant, the general practice is using only bullet cameras installed on lighting columns aligned along the fences at sides of the SPP. Kindly consider removing the dome camera requirement from the Technical Specifications to avoid above explained potential technical complications at the SPPs.	Please be informed that this specification is defined in accordance with the needs of the beneficiary. In addition, there are positions which dome cameras may be installed without shadowing. For example, installing dome cameras near MBS will avoid shadowing. Therefore, no revision is made in this specification.
5	2.16.19.	The luminaires to be used in the system shall contain light detection and motion sensors.	Light detection and motion sensors work in logic of on and off. They do not dim the light or provide any lighting automation. A luminaire turning on only when there is a motion would surely not fit the scope of SPP lighting. Also, light sensors on every luminaire is not functional since individual sensors may be affected by leaves, dust, clouds etc. which will result unequal lighting inside the SPP. We understand from the Technical Specifications that the lighting system should be capable of automatically turning on the lights at sunset by light sensor/astronomical clock/any other advanced technology. The system should also be capable of increasing individual lights in the event of human intrusion to the SPP, then dimming the light to a default luminance value after the intrusion event is over. If our understanding is correct, kindly allow the tenderers to choose the quantity and technology of sensors, automation technology to set up correct lighting system to provide above functions. Otherwise, please explain in the detail the use cases of the sensors and expected outputs.	The understanding mentioned in the request is correct. However, please be informed that this specification is defined in accordance with the needs of the beneficiary and all specifications define minimum requirements. Any additional sensor/technology may be accepted in the event of meeting the minimum requirements. No revision is made in this specification.

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6	2.16.25.	MBS shall be equipped with multi sensor detectors such as fire, heat, smoke and CO2 detectors to identify dangerous situations.	The purpose of the fire detection system is to detect the fire before or immediately when it happens. The fire produces CO2 in the late stages of fire. Normally the fire detection system should be designed to create an alert before the fire happens. Therefore, a multisensory for heat and smoke detection is sufficient. Kindly consider removing the CO2 detector from the Technical specifications as it may not be suitable for usage in fire detection system inside the MBS. Please also advise the meaning of the fire detector. Is it a flame detector? Kindly advise.	Please be informed that this specification is defined in accordance with the needs of the beneficiary and all specifications define minimum requirements. As mentioned in the clarification request, what is meant by a fire detector is a flame detector. The fire detector was changed as flame detector. Please refer to the Changes No.1 to Tender Dossier.