

CONTRACTING AUTHORITY'S CLARIFICATIONS No.1

Contract title: **Invitation to tender for Procurement and installation of solar energy plant for project “Greening the cities – Development and promotion of energy efficiency and sustainable urban environment in the cities of Croatia-Serbia cross-border region”**

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Date: **08/06/2018**

No.	Question	Answer
1.	<p>In Annex II+III, Technical specifications + Technical offer, In description of Item 1, Solar field, it is written that required number of inverter is 6, each 20kW. However, for item number 2, Inverters, it is written that rated power of inverter should be 5kW. That request is not consistent with power of solar field, which is 120kWp. We assume this is a mistake, and that it should be written 20kW rated power of inverters. We ask contracting authority to clarify this.</p>	<p>Please refer to Corrigendum No. 1</p>
2.	<p>Is it possible to offer inverters with different rated power, and different number of inverter units, so that total rated power of all units is equal or higher than 120kW?</p>	<p>No, it is not possible. Technical specification is in line with preconditions for electrical installations provided and approved by EPS. Please refer to document No. 86.1.10-D.07.02-127156-19.</p>
3.	<p>In Annex II+III, Technical specifications + Technical offer, In description of Item 1, Solar field, it is written that the type of solar PV panels is 310W monocrystal, 387 pieces, with following characteristics: Maximum power Pmax 310 Wp Dimensions 1650x992x38mm Maximum operating voltage Vmp 36.70 V Maximum operating current Imp 8.64 A Idle voltage VOC 35.60 V Temperature coefficient at Pmax -0.45% / 0C Temperature coefficient on VOC -0.34% / 0C Temperature coefficient on Isc 0.05% / 0C Generally, different PV panel manufacturers, for same rated power of the panels, have different Vmmp, Immp, Voc and Isc. Is it possible to offer PV panels with different maximum operation voltage and current, and different idle voltage, if the rated power of the panel is the same? Is it possible to offer PV panels with slightly different dimensions? We ask the contracting authority to write the permissible range of dimensions for PV panels.</p>	<p>The panels are arranged in strings that define the input power on a three-phase inverter, it is possible to connect other panels of the similar dimensions aligned with inverter units.</p>

4.	<p>In Annex II+III, Technical specifications + Technical offer, In description of Item 4, Cables, it is written that required cables are 1x600m². Afterwards, for cable distribution, it is written that the cross section of DC cables should be 4mm². We ask the contracting authority to clarify which cable should be offered, which cross-section. Moreover, it is written that the quantity is 400 pieces. Does the contracting authority means meters?</p>	Please refer to Corrigendum No. 1
5.	<p>For Item 4, is it possible to offer different DC cables specially designed for use in Solar field, not S-Flex if the offered cables meet all the requirements (specially made for PV panels, can withstand even the most extreme atmospheric and mechanical influences and work reliably and safely for several decades...)?</p>	Yes, is it possible to offer different DC cables.
6.	<p>For Item 6, is it possible to offer MC4 connectors, as they are also standard industrial connectors for PV panels?</p>	No, it is not possible. Defined connectors are in live with technical requirements.