# *ANNEX II + III:* TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

**Contract title: Supply of 42 photovoltaic panels systems (5 Kw)**

**Publication reference:** <**170339/DD/ACT/MK/2021/429-005;03-03/05**

**Columns 1-2 should be completed by the contracting authority**

**Columns 3-4 should be completed by the tenderer**

**Column 5 is reserved for the evaluation committee**

Annex III - the contractor's technical offer

The tenderers are requested to complete the template on the next pages:

* Column 2 is completed by the contracting authority shows the required specifications (not to be modified by the tenderer),
* Column 3 is to be filled in by the tenderer and must detail what is offered (for example the words ‘compliant’ or ‘yes’ are not sufficient)
* Column 4 allows the tenderer to make comments on its proposed supply and to make eventual references to the documentation

The eventual documentation supplied should clearly indicate (highlight, mark) the models offered and the options included, if any, so that the evaluators can see the exact configuration. Offers that do not permit to identify precisely the models and the specifications may be rejected by the evaluation committee.

The offer must be clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offeredspecifications.

| **1.**  **Item number** | **2.**  **Specifications required** | **3.**  **Specifications offered** | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation committee’s notes** |
| --- | --- | --- | --- | --- |
| **1** | **Electrical parameters**  **Voltage at max. power 31.58 V- 42.10 V**  **-Minimal efficiency of the panel is - 21.28 %**  **-Minimal output power of the panel 450- 550 watts**  **Current at max. power 13.06 A – 13.16 A**  **Open Circuit voltage 37.6 V – 50.10 V**  **Short circuit current 13.72 A-14.01 A** |  |  |  |
| **2** | **Mechanical parameters**  **Dimensions 1722/ 1134 / 30 – 2279/1134/35**  **Weight 21.5 kg – 28.40 kg**  **-Protection class: IP66**  **Bypass diodes 3 diodes**  **Frame Aluminum**  **Operating temperature -40...+85 оC**  **Maximum system voltage 1000 V -1500 V** |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **3**  **4** | **6KW Hybrid MPPT Solar Inverter**  **Max. PV Input Power 6000W**  **Rated AC Output Power 6000W**  **Nominal DC Volt/Max DC Voltage 360VDC/500VDC**  **Start-up Voltage/Initial Feeding Voltage 120VDC**  **MPPT Voltage Range 120-450VDC**  **Min. rated output voltage 620 VАС**  **Max. DC Voltage IP65 rated plug**  **AC Start-up Voltage/Auto Restart Volt. 120Vac-140Vac/180Vac**  **Acceptable Input Voltage Range 90-280Vac or 170-280Vac**  **Max. AC Input Current 40A**  **ominal Output Volt 220Vac/ 230Vac/ 240Vac，Single Phase dual AC output**  **Output Voltage Range 184V-265Vac or 195-253V (Selectable)**  **Nominal Output Current 26.0A**  **Interface RS485/RS232/Wifi/LAN**  **-Guarantee of energy production and linear degradation: 25 years**  **-Product warranty: 12 years** |  |  |  |