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

**Contract title: Supply of Laboratory equipment for the purposes and functioning of the scientific laboratories of the BLUE GROWTH Research centre at “Prof. D-r Asen Zlatarov” University of Burgas**

Lot 5 Supply of an automatic sampling device for fine particles with different fractions for the purposes of the Aquatic Ecosystem Modelling Lab

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**Publication reference:** CB005.3.12.001 - LP – Supply 3

**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.** | **Automatic sammpling device for fine particles with different fractions – 1 pc**  Certification: Compliance with EN 1234:2014 or equivalent  Two independent sampling lines with condensate collections device and temperature probe  Two vacuum pumps; Working conditions - -20 ÷ 45°C; ; storehouse conditions - -10 ÷ 50°C 95% UR; ; max number of empty/ open filters - minimum 21;  Filters Loader/Unloader capacity: min. 30 filter cartridges for ∅ 47 mm filter membranes  Data port – USB 2.0; ; Display - Graphic LCD (QVGA);Internal memory; ; Power supply - 230 Vac ±10% 50/60Hz; sampling: Measuring device - orifice meter; ; Range - 10 ÷ 60 l/min; ; resolution - 0.01 l/min;accuracy ± 1%; Atmospheric pressure: Range - 10 ÷ 105 kPa (1050 mBar); ; Hysteresis and linearity - 0.25 % F.S; Resolution - 0.01 kPa (0.1 mmH2O);  Accuracy - better than 1% (± 2Pa); Temperature: surroundung - PT100; Range - -20 + 100°C; ; Resolution - 0.01°C; ; uncertainty ≤ 1°C; ; Sampling / storing - TC Type J; range - -20 + 100°C; Resolution - 0.01°C; Uncertainty - ≤ 3°C; Sampling inlet PM10: nominal flow rate 2,3 m3/h, in compliance with EN 12341; Sampling inlet PM2,5: nominal flow rate 2,3 m3/h, in compliance with EN 14907  The equipment should be guaranteed for at least 2 year against any manufacturing and assembly defects. Spare parts and service must be guaranteed for 10 years after the end of the warranty period. |  |  |  |