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

**Contract title: 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 2** Supply of sampling and field measurement equipment for the Water Pollution Monitoring and Aquatic Eco system Labs **p 1 /…**

**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.** | **Telescopic stick for sampling devices for surface waters – 1 pc**  Adjustable length of 1,50 to 3,85 m  Spring mechanism for catching nets and glass. |  |  |  |
| **2.** | **Multifunctional pinch for telescopic stick - 1 pc**  Universal clamp for sampling bottles of any type and diametre of the mouth up to 80 mm. |  |  |  |
| **3.** | **Multifunctional pinch for glass for telescopic stick – 1 pc**  Pinch for sample taking from surface waters with glass of 1000 ml rain flap. |  |  |  |
| **4.** | **Sampling device Ruttner type – 1 pc**  Quantity of the sample: 1000 ml  Acrylic glass flask;  Thermometre 0 to +50°C. |  |  |  |
| **5.** | **Rope for sampling device Ruttner type, 25m – 1 pc**  Length: 25 m;  length markers;  Polyester rope 5 mm thick for sampling EKMAN and van VEEN type. |  |  |  |
| **6.** | **Portable dredger “Van Veen” type – 1 pcs**  For soil and mud sampling;  Stainless steal;  Dimensions of the shovel: 200 x 150 mm (opened shovel);  Maximum weight of the sample: 1000 g;  Weight: ~6,5 kg |  |  |  |
| **7.** | **Rope for dredger “Van Veen” and “Ekman” type, 25m** – 1 pc  Length: 25 m;  Length markers;  polyester rope 5 mm thick for EKMAN and van VEEN type sampling |  |  |  |
| **8.** | **Cooler for keeping samples – 5 pcs**  Cooling packs;  Volume min. 20 l.;  Electrical |  |  |  |
| **9.** | **Portable system for electrochemical measurement and ion analysis – 1 pc**  Multichannel measurement device 3-in -1 pH / ATC probe, 3m cable  Conductivity cell, 3m cable  optic probe, 3 m cable, stainless steal guard, calibration cartridge and optic cap.  Buffer pH 4,01, 10 units.  Buffer pH 7,00, 10 units.  buffer pH 10.01, 10 units.  Solution for keeping electrode, 475 mL  Standard for conductivity, 10 units.  Rinsing solution, 10 units.  Protective casing , supports for the probes  Transportation case |  |  |  |
| **10** | **Soundmeter – 1 pc**  Simultaneously measures SPL, Leq, KMax, LMin, LE and LPeak  Functions for measuring time: Quick, Slow and Impulse  Functions for spectral measurement: Simultaneously measures A and C or Z  Filters in real time 1/1 octet covering the range of 8 – 16Hz (option 1) or 1/3 octet covering the range of 6.3 kHz – 20 kHz (option 4)  Statistical calculations: 7 fixed percentiles L1%, L5%, L10%, L50%, L90%, L95% и L99% plus one value defined by the user (f.ex. L0.1%) |  |  |  |
| **11.** | **Luxmeter- 1 pc**  Element for receiving light: silicone photo diode  Slection of range: Automatic/ manual  Linearity: ± 2% rdg.  Accuracy of temerature and moisture: 21 ° C to 27 ° C (69,8 ° F to 80,6 ° F), 75% rh or less (without condensatio)  Time for reaction:  Automatic range: within 5 seconds, Manual range: within 2 seconds  D / A outlet  Output level: 2 V / range f.s.  Outlet accuracy: ± 1% rdg. ± 5 mV  Power supply:  Alcaline battery × 2 (contnuous use 300 hours):  Max. rated power 500 mVA  or R6 manganese battery × 2,  or power supply USB Bus (5 VDC) |  |  |  |
| **12** | **Geo sampler – 1 pc**  Solid sampler, Stainless steel,  Length: 810 mm, O: 13 mm |  |  |  |