# *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 6** Supply of equipment for solution analysis for the purposes of Aquatic Ecosystem Modelling and Water Pollution Monitoring 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.** | Kjeldahl apparatus – 1 pc  Automatic  Stainless steal body with epoxy coverage; Add Sodium hydroxide/ water/ boric acid: Automatic  Steam regulation: 10-100%; Water consumption: 0,5 l/min. at 15 ° C - 1l. /min. at 30 ° C  Reproductivity (RSD):≤ 1 %; Reproducibility: ≥ 99.5 % total nitrogen in range between 1 and 200 mg N  Limits of detection: ≥ 0.1 mg N; Power: 2100 W  Power supply: 230 V - 50/60 Hz; Number of programmes: 20  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. |  |  |  |
| **2.** | **Thermostat for burning samples – 1 pc**  Body of stainless steal wit epoxy coverage  Temperature range: from ambient up to 450°C  Timer: 1- 999 minutes  Power supply: 230 V / 50-60Hz or 115V / 50-60 Hz  Power:1100 W  Number of sockets: 6 samples  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. |  |  |  |
| **3.** | **Digital titrator – 1 pc**  Burette volume: 25ml/ISO8655-3/;Pump debit: 100ml/min; Resolution of the engine: 20 000 steps with electronic technology for microsteps (128 microsteps/ steps); Built-in procedures: cleaning of bubblings in the tubes, preparation of reagents, change of burette and pump, working moisture: 20-80% (without conensation); Automatically adds reagent: buil-in peristaltic pump; Schedule of technical equipment; data, storage: identificators of the operator, identificators of the sample, last 100 samples, QC analysis and empty samples, last 10 calibrations;  Display: 5,7", coloured graphics, VGA;  Electrode: Intellical ("Plug&Play" digital), analogue, photocolourmetric, 2 ports.  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 |  |  |  |
| **4.** | **Lyophilizer – 1 pc**  Benchtop Laboratory Freeze Dry System  • Collectode temperature: -50 ° C  • Collector capacity: 2.5L ice before defrosting • Hot gas defrost with automatic brake at + 60 ° C; Module for freeze dry of solid and bulk materails; Rotary vacuum pump  The equipment should be guaranteed for at least 2 year against any manufacturing and assembly defects. Spare parts and service must be guaranteed for 10years after the end of the warranty period. |  |  |  |
| **5** | **Vacuum evaporator – 1 pc**  Vertically arranged condenser (cooler) made of borosilicate glass with a cooling surface of 1500 cm2  • Receiving condensate flask 1000 ml  • Reversible rotation of the evaporator flask  • Electronically programmable rotation speed from 5 to 300 rpm  Chemically resistant diaphragm vacuum pump; Recirculation cooler  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. |  |  |  |