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

**Contract title:** Supply ofLaboratory 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 7 Supply of a system for microwave decomposition and extraction 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.** | **System for microwave decomposition and extraction – 1 pc**  Microwave area: stainless steal, 18/8 type multi-layer PTFE cover. Protected against acids and solvents with polymer cover. Door, totally made of stainless steal 18/8. type. Self seal under pressure and a system prevention of microwave emmissions in case of incorrect closure. Ventilation system - built-in, suitably situated and seperated from the electronics to prevent corosion. IR sensor - built-in IR sensor for temperature measurement. Microwave emmissions to be provided by double magnetrons system with spinning diffuser for homogenisation of microwave dispersion on the reaction surface. Rated power of the two magnetrones 950 W, total power 1900 W. Protection of magnetrons ftom reflected micro waves. Continuous and PID controled microwave emission at all levels of power Operation software allowing changing, saving and starting of different methods and including data base of programmes, applications and technical information. Segment rotor for decomposition at high pressure, including rotor body, at least 5 full segments with container volume of 100ml, maximum pressure 100 bar (1500 psi), maximum working temperature : 300 ° C; reference segment containing sensor - thermal control pair in a reference container, wrench up to 10 Nm, adapter.  Segment rotor for extraction, including rotor body, minimum of 6 completed containers to the rotor for extraction.  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. |  |  |  |