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

**Supply of laboratory equipment for the project ABIDERS**

**Ref. no. HRRS00148-5/laboratory equipment**

**Columns 1-2 should be completed by the Project partner**

**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 Project partner 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.

The requirements set out in the technical specifications represent the minimum technical characteristics which offered goods must satisfy, unless stated otherwise, and tenderers are not allowed to modify technical specification in any way.

For each item for which it is not explicitly stated that it is allowed to offer goods of the equal characteristics, i.e. for each item where it is not stated “or equivalent”, for the purposes of this tender documentation it is assumed that words “or equivalent” are stated, and tenderer is allowed to offer equivalent goods / goods of equivalent characteristics.

**Lot no. 1 – FTIR spectrometer**

| **1.**  **Item Number** | **2.**  **Specifications Required** | **3.**  **Specifications Offered** | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation Committee’s decision (Y/N)** |
| --- | --- | --- | --- | --- |
| 1 | **FTIR spectrometer** with next characteristics **– 1 pc**:  - FTIR spectrometer should have a range of 7800-350 cm-1  - The type of interferometer should be similar to Michelson type with Dynamic Alignment option for the mid-infrared region and the required resolution  - Spectral resolution 0.25 cm – 1 cm or better  - Signal to noise ratio typical 60000:1 or guaranteed 50000:1 or better. It is mandatory to indicate whether it is guaranteed or typical  - Wavenumber accuracy 0.02 cm -1 or better  - Include temperature controlled ATR with heated Diamond Crystal Plate uo to 300 °C, Temperature Controller for ATR module , software for termostating, Liquids Retainer & Volatiles Cover Set  - Include transmission module, and 10 cm gas cell that includes cell body, two stopcocks, 4 o-rings, end cap, clip-on and liquid holder  - Include software, computer and library.  Include installation and detailed training of at least 3 working days  - Mandatory service support  - Turn on the PC and monitor with OS must have the ability to search for spectra and search for peaks  - Spectrum database: minimum 11,000 spectra  The software must have an option to correct the baseline in a minimum of 3 points  - The software must have the ability to create a multi-point calibration curve |  |  |  |
|  | **Delivery**  Equipment must be delivered to University of Novi Sad, Institute of Food Technology in Novi Sad, Bulevar cara Lazara 1, 21102 Novi Sad |  |  |  |
|  | **Warranty period**  Min. warranty period is 24 months from the date of delivery |  |  |  |

**Lot no. 2 – Ultrasonic bath**

| **1.**  **Item Number** | **2.**  **Specifications Required** | **3.**  **Specifications Offered** | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation Committee’s decision (Y/N)** |
| --- | --- | --- | --- | --- |
| 1 | **Ultrasonic bath** with next characteristics – **1 pc**:  Ultrasonic bath 1.5  Ultrasonic frequency 40 kHz  Stainless steel |  |  |  |
|  | **Delivery**  Equipment must be delivered to University of Novi Sad, Institute of Food Technology in Novi Sad, Bulevar cara Lazara 1, 21102 Novi Sad |  |  |  |
|  | **Warranty period**  Min. warranty period is 24 months from the date of delivery |  |  |  |

**Lot no. 3 – DT-IV Dissolution; Tester Basket**

| **1.**  **Item Number** | **2.**  **Specifications Required** | **3.**  **Specifications Offered** | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation Committee’s decision (Y/N)** |
| --- | --- | --- | --- | --- |
| 1 | **DT-IV Dissolution** with next characteristics – **1 set**:  - DT-IV Dissolution; Tester Basket - 6 pcs  - Speed Range: 20~200 rpm  - Speed Accuracy ±1rpm  - Temperature range Ambient temperature~+45.0℃  - Preset Timing Nine Points - 1~999 min |  |  |  |
|  | **Delivery**  Equipment must be delivered to University of Novi Sad, Institute of Food Technology in Novi Sad, Bulevar cara Lazara 1, 21102 Novi Sad |  |  |  |
|  | **Warranty period**  Min. warranty period is 24 months from the date of delivery |  |  |  |