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

**Thematic equipment: Supply, delivery and instalation of laboratory equipment**

**AllerShield T6 – LOT 1 Microscope with camera and software**

**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.

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| --- | --- | --- | --- | --- | --- | --- |
| **1.**  **Item number** | **2.**  **Specifications Required** | | **3.**  **Specifications Offered** | | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation Committee’s decision (Y/N)** |
| **1** | **Microscope with camera and software**  **Quantity: 1 unit**  **Minimal technical requirement:** | | **Model/Brand name: \_\_\_\_\_\_\_\_\_\_\_\_** | |  |  |
| 1.1 | High-performance light microscope, with Two-step manual focusing system  Mechanical microscope stage with ceramic surface  Fully automated optical light axis in transmitted light | 1.1 |  |  |  |
| 1.2 | Stage handle with adjustable tension control | 1.2 |  |  |  |
| 1.3 | Eyepieces 10x magnification, 25 mm field of view, both with diopter adjustment rings | 1.3 |  |  |  |
| 1.4 | System for constant control of light intensity and color temperature  Condenser for brightfield, phase contrast, and darkfield methods  Upgradable with polarization system  Motorized aperture diaphragm  Motorized field diaphragm  Microscopy method switching via push button  Coded 6-position objective nosepiece  LED illumination with constant color temperature | 1.4 |  |  |  |
| 1.5 | Trinocular tube with adjustable viewing angle from 5° to at least 30°  Permanent 50%-50% light distribution in the trinocular tube | 1.5 |  |  |  |
| 1.6 | Semi-apochromatic objectives: 10x/0.25, 20x/0.40, 40x/0.65, 100x/1.25 oil immersion  Phase contrast semi-apochromatic objective set: 40x/0.65 phase, 100x/1.25 phase oil immersion | 1.6 |  |  |  |
| 1.7 | Power Cord and a protective cover for the microscope | 1.7 |  |  |  |
| 1.8 | Digital microscope camera with CMOS technology  Minimum resolution 6 megapixels, 3072 x 2048 pixels  Minimum frame rate 14 fps  Optical filter min 650 nm  C-mount camera adapter 0.55x, ensuring optimal connectivity with the camera and microscope. | 1.8 |  |  |  |
| 1.9 | **Software Technical Requirements:**  Software for operating the digital camera and controlling the automated microscope components  Software options for basic measurements, annotation, and processing of live and captured images  Supported measurement units: µm, mm in, mils, thou.  Support for dual-monitor workstation operations is required. | 1.9 |  |  |  |
| 1.10 | Type: Office Desktop computer  PC with licensed Windows 11 Pro64 operating system  Monitor screen: not less than 24"  Monitor screen resolution: not less than (1920 x 1080)  Dedicated graphics card, min. 4 GB GDDR6 equivalent or better to NVidia T400 (4 GB)  Equivalent or better to core i5-13600 (2.7GHz, 24 MB cache, 14 cores)  RAM memory: min. 16 GB DDR5, frequency at least 4800 MHz, dual-channel or better configuration.  Primary storage: SSD, min. 512 GB NVMe  Secondary storage: HDD, min. 2 TB, 7200 rpm or faster  LAN (RJ45): min. 1  USB Type-A: min. 2  USB Type-C: min. 1 | 1.10 |  |  |  |
| **1.11** | **Other requirements** | **1.11** |  |  |  |
| 1.11.1 | One-year servicing ensured for at least 2 years, including checks and adjustments of key components. | 1.11.1 |  |  |  |
| 1.11.2 | Complete installation of instrument/equipment, qualification of equipment and software according to the manufacturer's protocol with the issuance of a certificate (IQ, OQ) | 1.11.2 |  |  |  |
| 1.11.3 | Training of staff to work with the instrument in the user's laboratory and at the sampling location, issuance of certificate after completing the training (min 5 staff) | 1.11.3 |  |  |  |
| 1.11.4 | Service provided from the territory of Bosnia and Herzegovina or region (Serbia or Croatia) | 1.11.4 |  |  |  |
| 1.11.5 | Certified service technician from Bosnia and Herzegovina or region (Serbia or Croatia), Submit the service certificate issued from the manufacturer | 1.11.5 |  |  |  |
| 1.11.6 | Certificate – authorization letter issued from the imanufacturer | 1.11.6 |  |  |  |
|  | Technical documentation for equipment (Operating manuals/ Users Guide/ Equipment operating instructions/ Cleaning procedures/ Maintenance procedures/ Calibration procedures) upon delivery **in one of the official languages in BiH**.  **Compliance with standards**: The offered equipment must comply with the following standards: ISO 9001 (recommended), IEC 61010-1 (mandatory for electrical laboratory equipment), and ISO/IEC 17025 compatibility (if applicable). | |  | |  |  |
|  | The quoted price shall include goods, customs, delivery, installation, and education/training. The training shall be conducted by a certified service engineer. After the training, the certificate shall be issued.  After the equipment installation the bidder shall educate and train the users/staff to independently use the equipment, including the methods setting/developing (developed methods), making calibration curves, data processing, etc.  **The equipment maintenance plan, with precisely defined deadlines for cleaning, service and replacement of spare parts, shall be submitted**.  **The bidder shall submit procedures/deadlines for calibration/validation** (if applicable)**.** After the installation and commissioning of the equipment, the bidder shall perform the qualification/calibration/ validation (IQ/OQ) of the instrument (software & hardware) using validated software and issuing a certificate/calibration documents acceptable to the BiH Institute for Accreditation (BATA) (if applicable). | |  | |  |  |
|  | **Warranty**  Tenderers must provide local reliable warranty service agent providing maintenance and the rapid supply of equipment spare parts and consumables for the  Offer must include warranty service description including:  Service organisation contact data including name, postal address, telephone number, fax number and e-mail address;  Help Desk (phone) support, which must be available during working hours, 8AM – 6PM;  Guaranteed maximum response time to submitted maintenance support request (fax or e-mail) of 1 (one) working day;  Guaranteed that any requests for services will be attended to within 24 hours;  Guarantee that all items can be repaired or alternatively replaced within a maximum of 72 hours;  Guarantee that genuine spare parts and consumables will be available for a period of minimum 7 years from the date of final acceptance of the equipment.  The service, maintenance and repair must be available in Bosnia and Herzegovina or region (Serbia or Croatia), by an authorized equipment dealer. | |  | |  |  |
|  | **Commercial warranty:** minimum 2 year in accordance with the conditions laid down in Article 32 of the General Conditions and Article 33 of the Special Conditions.  **Detailed description of the organisation of the proposed service and description of the Manufacturer’s commercial warranty shall be included in the offer.**  **The bidder is required to submit the technical documentation of the equipment offered, with the relevant characteristics marked or highlighted to confirm compliance with the requirements specified in the technical specification.**  Delivery: Institute for Protection and Ecology of the Republic of Srpska, Vidovdanska 43, 78000 Banja Luka. | |  | |  |  |