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

**Contract title: Public procurement for emergency medical vehicle and medical equipment**

**Ref. Number: HR-RS00084 -07 -L02**

**LOT no. 2 - Medical equipment and supply**

**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.

| **1.**  **Item Number** | **2.**  **Specifications Required** | **3.**  **Specifications Offered** | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation Committee’s decision (Y/N)** |
| --- | --- | --- | --- | --- |
| **2.1** | **Biphasic External Defibrillator (AED) 10 pcs**  - Biphasic defibrillator operating in semi-automatic (AED) mode with energy delivery of at least 360J  - Ability to analyze rhythm, recognize fibrillation and self-charge to pre-programmed energy  - The device provides text and voice instructions for providing first aid  - Voice instructions in Serbian when turning on the device and performing resuscitation and defibrillation in AED mode with a metronome for the correct rhythm of compressions (min. 100 per minute)  - Weight maximum 2.5 kg with all accessories  - Operation with a disposable battery with a capacity of up to min. 3 years in Standby mode  - Patient impedance measurement range 20-200Ohm  - Monitoring time when working with the battery at least 24 hours  - Ability to operate the device at temperatures from 0 ºC to + 55 ºC  - Color LCD screen min. diagonal 14 cm  - Archiving data on performed resuscitation capacity min. 1Gbit internal memory  - Possibility of additional memory with SD card  - Possibility of connection and data transfer with a computer via IrDA port or via USB  - Device resistant to shocks, vibrations and falls up to 1m or more  - Device resistant to water and dust according to the IP54 standard or higher  - Resuscitation instructions provided by the device are in line with the latest ERC guidelines with the possibility of easy updating via SD card, IrDA or USB |  |  |  |
| **2.2** | **Training (practice) defibrillator (AED) 1 pcs**  - Defibrillator-trainer is used for practicing first aid in accordance with the latest ERC/AHA guidelines  - Must be fully compatible with the AED used for medical purposes  - The device must have voice functions in Serbian, which allow easy following of the guidelines and prepared scenarios.  - Must be covered by a warranty of at least 1 year  - At least 10 scenarios for training  - Remote control for selecting one of 10 scenarios, volume control, language selection, starting and stopping scenarios, turning on and off  - Electrodes are connected to the device and can be used countless times during CPR classes with AED |  |  |  |
| **2.3** | **Mannequin: Upper human body – advanced cardiopulmonary resuscitation (CPR) training phantom 2 pcs**  - Model: Realistic adult **torso** with average physiology  - Purpose: Basic and advanced CPR training (BLS and ALS)  - Standards: Compliant with the latest international resuscitation guidelines (ERC)  - Realistic anatomy: Display of ribs, sternum, head movements (rotation, tilt, jaw protrusion)  - Electronic feedback: depth, rate and release of compressions, correct hand position, ventilation volume and number of breaths  - Pulse simulation: **Palpable** carotid pulse  - Chest resistance replacement: Two additional springs (30 kg and 60 kg) to simulate different chest stiffness  - Wireless and wired connectivity for monitoring the quality of CPR performance  - Bluetooth connectivity with all Android and IOS smartphones and tablets  - Minimum package contents: torso with built-in rechargeable battery, USB A–C cable + USB charger (2A), two additional compression springs, 3 reusable faces for ventilation training, 2 disposable airways, semi-rigid bag, instructions for use  - Optional modules:  - Head with intubation option  - Legs with bleeding module  - Chest skin with AED function  - Trauma module for injury simulation |  |  |  |
| **2.4** | **Adult airway management training trainer 1 pcs**  - Model: Adult upper body with realistic anatomy  - Purpose: Training in basic and advanced airway management techniques  - Standard: Suitable for education at all levels of medical training  - Functionalities:  Intubation:   1. Oral and nasal tracheal intubation 2. Intubation into the pharynx, esophagus and bronchi 3. LMA (laryngeal mask airway) and Combitube insertion 4. Supraglottic device placement 5. Evaluation of tip position with a bronchoscope   Ventilation:  a. Ventilation practice using a bag-mask system  b. Visual inspection of lung expansion  c. Auscultation of respiratory sounds  Laryngospasm simulation  Demonstration of the Sellick maneuver (cricoid cartilage pressure)  Feedback on excessive laryngoscope pressure  Suction and aspiration:   1. Removal of fluid from the mouth and nasal cavity o Endotracheal tube suction 2. Gastric drainage   Simulation of complications:   1. Abdominal bloating 2. Vomiting (with simulated contents)   Simulator mounted on a stable surface  **● Package contents include: Airway demonstration model, cleaning kit, training lubricant, transport bag, instructions for use** |  |  |  |