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

**Contract title: Supply of equipment for a digital fabrication laboratory p 1 /…**

**Publication reference:** HUSRB/23R/22/060 – 4.7.6, 5.1.1, 5.1.2, 5.1.3, 5.1.4, 5.1.5, 5.1.6, 5.1.7

**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** | **Laser cutter – quantity 1**   * Laser type: CO2, water cooling * Electric adjustment of the worktable * Work area minimum 1200 x 1000mm * Laser power minimum 120W * Cutting speed at least 4000 cm/min * Engraving speed at least 5000 cm/min * Power supply 220V/50Hz * Rated power minimum 800W * Supported image formats: .bmp, .plt, .ai, .dxf * Compatible software: LightBurn, CorelDraw, PhotoShop, AutoCad * Smoke extraction pump * Materials suitable for engraving: acrylic, wood, plastic, fiberglass * Materials suitable for cutting: acrylic, wood, plastic |  |  |  |
| **2** | **CNC cutter – quantity 1**   * Computer 3D processing of wood, plastic, light metals * 3 axis movement at least 1800 x 1000 x 120mm * Steel frame * Worktable at least 2400x1100mm * Drive shaft with step motors * Work speed at least 3000 mm/min * Motor with water cooling * Vacuum table for gripping manufactured items * Rotational fourth axis * Power supply 220V |  |  |  |
| **3** | **Plotter – quantity 1**   * Media width minimum 300 x 1600mm * Thickness max. 1mm with liner for printing * Thickness max. 0.4mm with liner and 0.22mm without liner for cutting * Ink: 6 colours (cyan, magenta, yellow, black, white, gloss) * Control panel: touch screen display * Print resolution max 1200 dpi * Cutting speed range min 10 max 400 mm/s * Power saving function * Connectivity: Ethernet |  |  |  |
| **4** | **Magnet maker – quantity 1**   * Suitable for making magnets with dimensions of 58mm * Suitable also for badge making |  |  |  |
| **5** | **Welding machine – quantity 1**   * TIG welding * MMA welding * MIG welding * Welding current TIG up to 300A, MMA up to 250A, MIG up to 300A * Wire diameter: MIG 0.8/1.0/1.2 mm * Wire diameter: MMA ϕ2.5, ϕ3.2, ϕ4.0 * Protection: IP 21S (class H) * Cooling: air / went |  |  |  |
| **6** | **3D printer – quantity 1**   * Print size at least 320 x 320 x 320 mm * Printing speed at least 500mm/s * Acceleration at least 25000 mm/s2 * Step servo motor system * Digital touch screen * Dual camera * Automatic refiling * Air filter * USB flash drive / Ethernet / Wi-Fi * Flexible printing plate * Nozzle temperature at least 350 degrees Celsius |  |  |  |
| **7** | **Laptop – quantity 2**   * Processor: minimum base frequency 2.00 GHz, minimum 4 cores * Graphics card: integrated Radeon or equivalent * RAM: minimum 6 GB DDR4 2400 MHz * Hard drive: SSD Minimum 512 GB SATA3 or NVMe * Minimum 1 x USB C * Minimum 2 x USB A * Minimum 1 x HDMI * Minimum 1 x 3.5 headphone jack * Bluetooth * Speakers * Webcamera * Monitor: Minimum 15.6 inch diagonal * Monitor: minimum resolution 1920 x 1080 * Operating system: preinstalled operating system 64bit, licence and subscription minimum 2 years |  |  |  |
| **8** | **Software**   * Adobe package or equivalent software for design for two computers: licence and subscription minimum 2 years * Office software for two computers, including spreadsheet software, word processing, software for presentation and email client, licence and subscription minimum 2 years |  |  |  |
|  | **NOTE**  All equipment must be new, unused and not refurbished.  Technical documentation for equipment (Operating manuals/ Users Guide/ Equipment operating instructions/ Cleaning procedures/ Maintenance procedures/ Calibration procedures) upon delivery.  Tenderers must provide local reliable warranty service agent providing maintenance and the rapid supply of equipment spare parts and consumables for the Warranty duration of one year. |  |  |  |