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

**Contract title:** Purchase rent a bike system with bicycles **p 1 /…**

**Publication reference:** RORS-379/2020/S4

**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 following 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 possible 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 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 offered specifications.

| **1.**  **Item Number** | **2.**  **Specifications Required** | **3.**  **Specifications Offered** | **4.**  **Notes, remarks, ref to documentation** | **5.**  **Evaluation Committee's notes** |
| --- | --- | --- | --- | --- |
| **1** | **Station construction - 1 piece**   1. Anchors, assembly - 8 pieces (Steel sheet 10 mm thick, size 200x200mm, hole on steel 60 \* 60mm, hooks fi 14, length 325mm), painted with base paint 2. Poles, assembly: Pipe for poles - 8 pieces (steel, hot-dip galvanized poles measuring 60x60x3mm, length 2500mm), Steel sheet 10mm thick, size 200x200mm, hole in steel 60 \* 60mm, 8 pieces. 3. Support pipes for connecting poles - 2 pieces (steel, hot-dip galvanized, dimensions: 60x100x3mm, length 4420 mm) 4. Support pipes for connecting poles - 4 pieces (steel, hot-dip galvanized, dimensions 60x100x3mm, length 3265 mm) 5. Arch, roof construction assembly - 7 pieces (steel, hot-dip galvanized arch pipe, dimensions 40x40x3mm, arch span 5000, 8mm - 7 pieces; lower part of the arch steel, hot-dip galvanized pipe, dimensions 40x40x3mm, length 4060 mm - 7 pieces; ring fi 133mm, width 40mm - 7 pieces) 6. Lexan 70-75m2 for canopy with connecting elements, d = 1cm, smoke color, resistant to UV radiation 7. Lexan holder - 10 pieces: steel pipe hot-dip galvanized 40x20x2 mm, length 11110 mm 8. L brackets 70x69x5mm steel, hot-dip galvanized - 28 pieces 9. Screws appropriate amount for mounting, strength class 8.8 10. T connection - 16 pieces, steel, hot-dip galvanized, dimensions 260x160mm, thickness 10mm 11. Box cabinet housing with bicycle lock insert, doors with two locks, assembly - 7 pieces, dimensions 644x200x240mm metal profiled sheet metal 3 mm thick, surface protection: plastic coating 12. Anchor base for Box cabinet, assembly - 7 pieces, dimensions 1000x900x220mm, surface protection: base paint 13. Cabinet base - 7 pieces, dimensions 1000x900x3mm, surface protection: plastic coating 14. Bicycle guide, assembly - 14 pieces, metal bent tube fi 25mm, surface protection: plastic coating 15. Plastic "honeycomb": fitting PE / PP boards for strengthening soft soil 200x200x37 mm - 47 to 58 m2, procurement and installation   The complete construction must be delivered and installed. |  |  |  |
|  |  |  |  |
| **2** | **Bicycles - 14 pieces**  Bike type city, female, with aluminum frame, frame size 18 ''- 23'', wheel size 27''- 29'', tires 27"-29'' x1.75, gears: 3 integrated in the rear wheel head, front dynamo head, front brake V-brake, rear brake cons and additional V-brake, additional equipment: PVC fenders, aluminum beam, light front + rear on dynamo, front basket integrated on the front of the frame - does not rotate with the steering wheel, bell, central reinforced aluminum legs, chain guard. Reinforced frame and fork. Branding and paint color in agreement with the contracting authority. |  |  |  |
| **3** | **Automated card machine - 1 piece**  The machine consists of a metal plasticized housing. An HMI device (with a touch screen) is placed on the machine, which is used for communication with users and contains a database of traffic, users and rented bicycles. The display shows the bicycle retrieval procedure, as well as the procedure for recharging the credit on the RFID user card. (1 piece)  Automated card machine parts (mechanical and electrical):   1. Housing for electrical equipment, dimensions 500x600x1400 mm, metal profiled sheet metal 3 mm thick, surface protection plastic coating (1 piece) 2. Anchor stand for automatic dimensions 500x600x300 mm, metal profiled sheet metal 3 mm thick, surface protection plastic coating (1 piece) 3. HMI 12.1 "600 cd / m2 XGA Panel PC, TDP 10W, min 2GB RAM, 9-36V DC power supply, resistive touch screen with AG coating, IP65 aluminum front screen frame (1 piece) 4. Banknote Receiver with Currency Recognition Software (1 Piece) 5. Kiosk Certificate and Report Printer (1 piece) 6. 13.56MHz short-range RFID card reader (2 pieces) 7. HMI software that allows communication of individual parts of the machine (1 piece) 8. RFID cards for users, ISO 15693, operating frequency 13.56 MHz, IC type: Tag-it HF-I Plus, memory 2048 bits, dimensions 86x54 mm, printed with a graphic solution of the client - 200 pieces |  |  |  |
| **4** | **Bicycle rental software - 1 set**  Software for user identification and bicycle rental billing:  The user has an RFID card that contains the user's identification number. The card is used for user login, i.e. for borrowing and deleting bicycles. The credit balance (cash) is entered on the card, as well as the data on the bicycle's indebtedness. |  |  |  |
| **5** | **Control cabinet - 1 set**  The control cabinet is placed inside the machine, it contains mounting plate on which the control electrical equipment that controls the bicycle unlocking and locking system (1 piece) is mounted  Electrical parts of the control cabinet:  Main switch 10 A (1 piece)  Power supply 24V DC, 5A (1 piece)  Power supply 12V DC, 7.5A (1 piece)  PLC industrial controller32 inputs, 16 outputs, 24 V DC, Ethernet 10 Base T (1 piece)  PLC relay with stand 24V DC, 6A (14 pieces)  Single pole fuse A type 6.3A fuse with housing (1 piece)  Single pole fuse B type 10A fuse (1 piece)  Fuse single pole automatic C type 10A (1 piece)  FI switch 63A, 300mA (1 piece)  Working clamps single 6mm² (16 pieces)  Triple work clamps, 6mm² (28 pieces)  Slotted plastic ducts for cables size 60x40x2000mm. (1 piece)  Slotted plastic ducts for cables size 40x40x2000mm. (2 pieces)  DIN mounting rails (1 piece)  Wire P / F yellow-green face 16mm² (20m)  Wire P / F black face 0.75 mm² (20m)  P / F blue wire 0.75 mm² (20m)  Wire P / F yellow-green personal 0.75mm² (20m)  Wire P / F red face 0.5 mm² (100m)  Wire P / F blue face 0.5 mm² (100m) |  |  |  |
| **6** | **Bicycle locking mechanism components - 1 set**   1. Bicycle lock, assembly, mounted inside the box cabinet (14 pieces) 2. Electromagnet 24V DC 15.2 OHMS "pull" type (14 pieces) 3. Optical sensor (14 pieces) 4. Indicative sensor (14 pieces) 5. Sound signal sensor (7 pieces) 6. Metal "fork" - bike holder, assembly, mounted on bicycle forks, galvanized surface protection (14 pieces) |  |  |  |
| **7** | **Power and signal cables, ground connection and connection to the distribution network** - **1 set**  Required equipment:   * PVC pipe Φ110 from 1m (10 pieces) * PVC T-fork Φ110 - Φ75 (7 pieces) * PVC Φ110 - corner 300 (1 piece) * PVC plug Φ110 (2 pieces) * PVC plug Φ75(7 pieces) * Grounding probe fi 50 mm (2 pieces) * Galvanized lightning strip 25x4 (25m) * Wire P / F 16mm² (10 m) * PP00 cables 3x2.5 mm2 (50-70 m) * LIY-CY cables 6x0.34mm2 (approx. 80m) * PP / Y cables 3x0.75 mm2 (approx. 80m) * GAL tape 1m long (50 -70 pcs) |  |  |  |
| **8** | **Video surveillance - 1 set**  1920x1080 pixel output camera with night recording capability. Video storage is realized locally at the station for at least 14 days.   * Camera: minimum 2MP HDCVI camera in eyeball case with IR capabilities (range 20+ meters). Minimum resolution 1920x1080. Protection level IP67. (2 pieces) * Recorder: supports 4 HDCVI / TVI / AHD / analog cameras up to 5MP and two additional IP cameras up to 6MP. Minimum 1 audio input, 1 audio output, two-way audio communication, supports audio via coaxial cable, minimum 1 HDMI output, 1 VGA output, hard disk capacity minimum 2TB, minimum 2 USB ports for backup and mouse control (1 piece). * Hard disc min 1 TB (1 piece) |  |  |  |