# *ANNEX:* TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

**Contract title: Equipment for SMART education in Edinet municipality.  Lot-2 Equipment for smart lab in schools.**

**Publication reference:**

**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**

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 offered specifications.

**General requirements for lot:**

1. The offeror has to include in price on job training for the project team regarding operation and maintaining of the proposed equipment
2. The proposed equipment has to be energy efficient
3. The indicated below technical requirements indicate the minimum quality criteria which offerors should propose. The offerors can propose equipment with better or higher parameters.
4. The equipment should be designed for the education purpose, students age 17-18 years

| 1. Item nr | 2. Specifications required | 3. Quontity | 4. Specifications offered | 5. Notes, remarks, ref to documentation (Producer, Country of origin) | 6. Nota comitetului de evaluare |
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| 1. | **Similar to Headset (64GB) - Set of 8**<br>Octa-Core Qualcomm Snapdragon XR1 CPU<br>4GB DDR RAM and 64GB Internal Storage<br>5.5" 2560×1440 UHD Fast LCD Screen<br>802.11 a/b/g/n Dual Band WiFi 2.4/5Ghz + Bluetooth 4.2<br>13MP Auto-Focus Front Facing Camera<br>Combination Fresnal/Aspherical Lens<br>USB-C Charging/Input for Hand Controller<br>3-Way Adjustable Head Mounting with Dual Rear Straps<br>Micro SD Card Slot for Storage Expansion<br>Stereo Speakers and Microphone<br>3.5mm Stereo Jack Out for Headphone Use<br>Warranty min. 24 months<br>**NSW DOE Network compatible!!**<br>ClassVR brings affordable, innovative Virtual Reality (VR) to the classroom. It comes complete with hardware, software and curriculum-linked activities and lesson plans, equipping teachers with everything they need to introduce this cutting-edge technology straight into the classroom. | 3 sets | | | 1. |
| 2. | **Teslong mobile microscope**<br>Senor: 1.0 Megapixel CMOS<br>Resolution : 1280x720 Pixels<br>Magnification Ratio : 10X-200X<br>Diameter : 8mm<br>Focus Range : Manual Focus from 10mm to 500mm<br>LED lights : 8 brightness adjustable LED lights<br>Interface : USB2.0 UVC or Micro-USB<br>Operation System: Windows 7/8/10, Mac 10.6 or later , Android 4.4 or later | 15 unit. | | | |
| 3. | **Similar to -inch iPad Wi-Fi 64Gb Space Gray (tablet)**<br>**Similar to, IPad, 64 GB, 10.2 Inches, 2160x1620 Pixels,**<br>Gorgeous 10.2-inch Retina display with True Tone - A13 Bionic chip with Neural Engine<br>8MP Wide back camera, 12MP Ultra Wide front camera with Center Stage | 15 unit. | | | |

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| | Up to 256GB storage - Fast 802.11ac Wi-Fi - Up to 10 hours of battery life<br>Touch ID for secure authentication and Apple Pay - Stereo speakers<br>Lightning connector for charging and more accessories<br>Warranty min. 24 months<br>Case with rigid back shell, eco-leather covering and soft, anti-scratch interior. The front cover must turn into a practical and convenient stand so that you can write, browse and look at the screen | | | |
| 4. | (ИнData Display Similar to Flip 2 WM55R (White)<br>Type:  Freestanding<br>Diagonal ("):  55<br>Screen resolution:  3840x2160<br>HD resolution:  2160p (4K UHD)<br>LED backlight:  yes<br>Brightness (cd/m²):  350<br>Response time (ms):  8<br>Contrast:  4000: 1<br>Horizontal refresh rate (kHz):  81<br>Processor:  Crystal 4K<br>Operating system:  Tizen<br>Speaker power (W):  2x10<br>Inputs:  HDMI<br>Outputs:  Ethernet, HDMI, RS-232C, USB,<br>Audio Wi-Fi:  yes<br>Wall mount option:  yes<br>Vertical mounting capability:  yes<br>"Screen up" mode:  yes<br>Features:  Built-in Bluetooth, Built-in Player<br>Color:  White<br>Additional<br>Horizontal angle of view (°):  178<br>Vertical angle of view (°):  178<br>Supported formats:  JPEG, MP3, MPEG2, PNG<br>VESA mount:  400x400<br>Number of points of contact:  4<br>Operating temperature range (°C):  0...+40<br>Humidity range (%):  10-80<br>Width (mm) 1297.4<br>Height (mm):  768.2<br>Depth (mm):  59.9<br>Weight (kg):  28.2 | 1 unit. | | | |
| 5. | Similar to Education Prime Set<br>The Similar to Prime Set is the go-to  STEAM learning tool for grade 6-8 students. Combining colorful similar to building elements, easy-to-use hardware, and an intuitive drag-and-drop | 15 unit. | | | |

coding language based on Scratch, similar to continuously engages students through playful learning activities to think critically and solve complex problems, regardless of their learning level. From easy-entry projects to limitless creative design possibilities, similar to helps students learn the essential STEAM and 21st century skills needed to become the innovative minds of tomorrow... while having fun!

The heart of the similar to system is the programmable Hub. This advanced yet simple-to-use, brick-shaped device features 6 input/output ports, 5x5 light matrix, Bluetooth connectivity, a speaker, 6-axis gyro and a rechargeable battery. The similar to Set also includes highly accurate motors and sensors that, together with a large variety of colorful **similar to** building elements, let students design and build fun robots, dynamic devices and other interactive models. Many attachment points on the Hub, motors and sensors plus new, large building elements means students spend less time building and more time learning. The durable storage box and 2 sorting trays also means time spent setting up and clearing away is kept to a minimum, while the smaller trays are ideal when desk space is limited.

The intuitive coding environment for tablets and computers takes the best elements from the popular coding language based on Scratch, creating a system that teachers and students will love. In addition to Getting Started Material, the app comes with 3 unit plans of curriculum-aligned STEAM content focusing on Engineering and Computer Science. Designed for students grades 6-8 and optimized for 45-minute lessons, these units accelerate STEAM learning by consistently engaging students to think critically and to solve complex problems, regardless of their learning level. Comprehensive online lesson plans with a wealth of accessible, interactive support material gives teachers everything they need to deliver lessons with confidence, whatever their previous experience.

Learn about all the cool new elements that makes similar to so cool!
Sturdy storage box with sorting trays, programmable Hub, Distance Sensor, Force Sensor, Color Sensor, Large Motor, 2

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| | Medium Motors and over 500 appealing **similar to** Technic™ elements in a fresh color palette.<br>Programmable Hub features a 5x5 light matrix, 6 input/output ports, integrated 6-axis gyro, speaker, Bluetooth connectivity and rechargeable battery.<br>The drag-and-drop coding environment for tablets and computers is rooted in the popular coding language based on Scratch used by millionsof children around the world.<br>Engage students with 3 STEAM unit plans for grades 6-8 focused on Engineering and Computer Science, linked to curriculum standards, and mostly optimized for 45-minute sessions. Includes comprehensive online lesson plans and teacher support.<br>Apply engineering design skills at each step of the design process.<br>Develop efficient problem-solving and coding skills through decomposition of problems and algorithmic thinking.<br>Design projects that combine hardware and software components to collect and exchange data.<br>Work with variables, data arrays and cloud data.<br>Apply critical thinking and develop life skills for the careers of tomorrow. | | | | |
| 6. | **Circuite electronice pentru copii similar to experimente**<br><br>Model: SC-510 (SC-500)<br>Similar to makes learning electronics easy and fun! Just follow the colourful pictures in our manual and build exciting projects such as a Space wars; Pencil Alarm; Spinning Rings and much more! You can even play electronic games with your friends. All parts are mounted on plastic modules and snap together with ease. Enjoy hours of educational fun while learning about electronics. No tools required. Includes all of the similar to SC310 projects and 200 more! Includes Projects 1-511 manuals.<br><br>Build over 510 projects including:<br>FM Radio<br>Adjustable light control<br>Digital voice recorder<br>AC Generator<br>Contains over 75 parts including:<br>Recording Integrated Circuit<br>FM Module<br>Transformer<br>Analog Meter<br>Batteries Not Included | 10 unit. | | | 6. |

| 7. | **Soft educaţional similar to**<br>Age Range- 5-7, 8-10, 11-13, 14-16, 17-18<br>Features- Interactive/3d /Learning/Iwb /<br>Presentation/Software/Teacher/Student/Games/GameTools<br>Languages- Arabic, Chinese, English, French, German, Italian, Japanese,<br>Korean, Spanish<br>Policies- Privacy Policy<br>Requirements- Available Offline, Desktop – Windows, Desktop –<br>Chromebook, Mobile – Iphone, Mobile – Ipad, Mobile – Windows,<br>Mobile - Android<br>Set Up- 10 minutes<br>Training- In Person, Live, Online, Webinars, Documentation, Videos<br>Support- Email, FAQs/Forum<br>Home Learning- Parent Access<br>Anyone can create the account. | 1 unit. | | | |
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| 8. | **3D PRINTER**<br>MINIMAL TECHNICAL REQUIREMENTS:<br>Build volume Ø 200 x h 400 mm<br>Minimum layer height 50 micron<br>Print speed max (*) 500 mm/s<br>Travel speed max (*) 800 mm/s<br>Acceleration (*) 15.000 mm/s2<br>Bed temperature max 110 C°<br>Nozzle diameter standard - 0,4 mm<br>Suitable filaments Ø1.75 PLA/PETG/ABS/PA carbon<br>extruder for fast and high-quality prints<br>SOFTWARE – OS Windows, Mac, Linux<br>Slicing software compatible with all slicing software's (similar to)<br>File type. stl, .obj,. google<br>INTERFACE - SD cards, LCD screen<br>INCLUDED MATERIAL – 1 Extruder Kit, 10 kg of PLA filament | 3 unit. | | | |
| 9. | **ActiveInspire educational software**<br>App specs<br>License<br>Trial version<br>Version-1.5.0<br>Latest update-May 23, 2023<br>Platform-Windows<br>OS<br>Windows 8.1<br>Language-English<br>Developer-Promethean Limited | 1 unit. | | | |
| 10. | **All-in-One PC - 23.8'' similar to C24-1650 FHD IPS**<br>Similar to i5-1135G7, 1x8GB DDR4 RAM, 256G M.2 PCIe SSD,<br>Similar to Iris Xe Graphics, NO ODD, CR, HD cam, WiFi AX201+BT<br>5.0, LAN, 65W PSU, USB KB/MS, Endless OS, Iron Gray. | 15 units | | | |

| 12. | **Similar to smart home kit**<br>Package Dimensions- 10 x 7.68 x 3.23 inches<br>Item Weight- 1.59 pounds<br>ASIN- B08CZ778DJ<br>Item model number          - KS0085<br>Customer Reviews - 4.2 4.2 out of 5 stars,169 ratings<br>4.2 out of 5 stars<br>Best Sellers Rank   #862 in Single Board Computers (Computers & Accessories)<br>Date First Available- July 15, 2020<br>Manufacturer        keyes<br>Language-             English<br><br>*Lights and people*  photocell sensor, human infrared sensor and LED module - after dark, if someone has passed the model smart home, the LED light is on, if no one LED is turned off.<br>*Password and door*Press the button to enter the password and confirm it, the LCD displays the password, if password is correct the door open, if wrong, LCD displays "Error" then display "Again", you can re-enter the password.<br>*Soil dry reminder*  Soil humidity sensor, bt module, mobile app - soil humidity sensor is inserted on a flower pot, when the soil of the flower pot is too dry, the buzzer will ring, and the "water" will be reminded on the mobile app.<br>*Gas leak alert*        MQ-2 Gas Sensor - when the gas sensor detects that a certain hazardous gas is too large, the buzzer will issue a "didi" alert.<br><br>*Close the window if raining*  Steam sensor, photocell sensor - when the raindrops are detected, the servo2 is activated, and the window is automatically closed, and when the sunlight is strong, the window opens.<br><br>*BT remote app control*        Play music, control doors and windows, and all sensors, control the brightness of the lamp and the speed of the fan. | 15 unit. | | | |
| 13. | **DC similar to EOS 800D + 18-55 IS STM KIT**<br> Experience the fast focusing speed of EOS 800D, which also features an intuitive, easy-to-use UI that guides you to shoot aesthetically-appealing images. The DIGIC 7 image processor and 24.2-megapixel APS-C sensor combine to produce images more accurate and detailed than ever, great for preserving memories of holidays, special occasions and time spent with loved ones.<br><br>With the Dual Pixel CMOS AF system, focus can be established in as fast as 0.03 seconds during still photography in Live View mode-- together with design features such as the Vari-angle touch-screen LCD, allows more freedom when shooting, making it much easier to shoot | 3 unit. | | | |

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| | almost anything from self-portraits to professional-looking movies in Full HD 50p / 60p. 24.2 megapixel Dual Pixel CMOS AF Up to 45-point All Cross-type AF Wi-Fi / NFC and Bluetooth low energy technology supported | | | | |
| 14. | **Similar to Class Pack ( 6pcs)** 6 Similar to Lite coding robots 6 Charging cables 6 Sheets of vinyl cling decals  6 Reusable fold-out whiteboards 6 Microfiber cloths 6 Dry erase markers 1 Printable Learning Level curriculum guide 1 Year of premium educator content<br><br>TECH SPECIFICATIONS Size 40.9 cm x 30.5 cm x 20.5 cm<br><br>Weight 6.04 kg<br><br>Wireless Similar to—Pair your device with the similar to Coding App using Similar to technology to control the robot and watch code come alive.<br><br>Battery 2600 mAh Li-Ion rechargeable battery<br><br>Sensors 4x Capacitive touch zones 2x Front bumpers 2x Light-sensing eyes 2x Wheel encoders 1x Power button 1x 3D gyroscope 1x 3D accelerometer 1x Battery level monitor<br><br>Outputs 2x Drive motors 4x Large multicolor LEDs 1x Piezoelectric speaker 1x Marker lift & drop motor | 1 unit. | | | |

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| | External Connectors<br>1x Charging cable port<br>2x Charging contacts | | | | |
| **15.** | **I-MOB MATTE**<br>Smart furniture set consisting of 4 interactive cubes designed to promote active movement in the classroom<br>On cubes you can sit or stand, you can roll like a dice<br>communicate wirelessly with the interactive whiteboard using the premium educational software i3Learnhub<br>It has analog and digital functions<br>provides students with many opportunities to learn through movement<br>light and durable<br>contains Manual with 100 tasks<br>The movement and position of the cubes are commands for educational games on the interactive board | 3 unit. | | | |
| **16.** | **Tello EDU drone**<br><br>VR Headset Compatibility<br>Fly with a breathtaking first-person view.<br>DJI Flight<br>Tech<br>Industry-leading components to ensure stable flights.<br>Tello App<br>Getting started is extra easy with the Tello app's friendly UI.<br>Controller Compatibility<br>Precise control for unforgettable experiences.<br>720P HD Transmission<br>5 MP Photos<br>13-min Flight Time<br>Precise Hovering<br>Program a Swarm of Drones<br>Mission Pads Offer Multiple Fun Uses<br>Multiple Flight Mode<br>Unlock More Possibilities with SDK | 3 unit. | | | |
| **17.** | **Similar to SC750R Training Program**<br><br>Batteries 4-AA<br>Brand       Similar to<br>Manufacturer         Similar to<br>Parts Included       100<br>Product Warning    WARNING CHOKING HAZARD- Small parts. Toy contains a cord. Not for Children under 3 yrs.<br>UPC       756619005621<br>SKU       SC750R | 15 unit. | | | |
| **18.** | **Kit 37 compatible similar to OKY1027**<br>This learning kit is suitable for starter. It includes many | 10 unit | | | |

| | projects with detailed tutorials, starting from the basics to more complex projects. Different from other kits, it adds some functional modules, such as RFID, temperature and humidity module,etc. There is connection diagram and code for each project, it is easy for you to learn. | | | | |
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