

# ***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.

1. Item nr	2. Specifications required	3. Quantity	4. Specifications offered	5. Notes, remarks, ref to documentation (Producer, Country of origin)	6. Note of the evaluation committee
1.	<p><b>Similar to Headset (64GB) - Set of 8</b>            Octa-Core Qualcomm Snapdragon XR1 CPU            4GB DDR RAM and 64GB Internal Storage            5.5” 2560×1440 UHD Fast LCD Screen            802.11 a/b/g/n Dual Band WiFi 2.4/5Ghz + Bluetooth 4.2            13MP Auto-Focus Front Facing Camera            Combination Fresnal/Aspherical Lens            USB-C Charging/Input for Hand Controller            3-Way Adjustable Head Mounting with Dual Rear Straps            Micro SD Card Slot for Storage Expansion            Stereo Speakers and Microphone            3.5mm Stereo Jack Out for Headphone Use            Warranty min. 24 months</p> <p><b>NSW DOE Network compatible.</b>            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.</p>	3 sets	<p>ClassVR Premium Headset (64GB):            Technical Specifications            4GB DDR RAM &amp; 64GB Internal Storage            Octa-Core Qualcomm Snapdragon XR1 CPU            5.5” 2560x1440 HD Fast LCD Screen            802.11 a/b/g/n Dual Band WiFi 2.4/5Ghz +            Bluetooth 4.2            13MP Auto-Focus Front Facing Camera            Combination Fresnal/Aspherical Lens            Internal Lithium Polymer Battery with Minimum 4            Hours Runtime in Continued Use            USB-C Charging/Input for Hand Controller            3-Way Adjustable Head Mounting with Dual Rear            Straps            Micro SD Card Slot for Storage Expansion            Stereo Speakers &amp; Microphone            3.5mm Stereo Jack Out for Headphone Use            Warranty 24 months</p> <p><b>NSW DOE Network compatible.</b>            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.</p>	Country of origin: China Producer: ClassVR	
2.	<p><b>Similar to -mobile microscope</b>            Senor: 1.0 Megapixel CMOS            Resolution : 1280x720 Pixels            Magnification Ratio : 10X-200X            Diameter : 8mm            Focus Range : Manual Focus from 10mm to 500mm            LED lights : 8 brightness adjustable LED lights            Interface : USB2.0 UVC or Micro-USB            Operation System: Windows 7/8/10, Mac 10.6 or later, Android 4.4 or later</p>	15 unit.	<p><b>Teslong MS100 PORTABLE USB MICROSCOPE</b>            Senor: 1.0 Megapixel CMOS            Resolution : 1280x720 Pixels            Magnification Ratio : 10X-200X            Diameter : 8mm            Focus Range : Manual Focus from 10mm to            500mm            LED lights : 8 brightness adjustable LED lights            Interface : USB2.0 UVC or Micro-USB            Operation System: Windows 7/8/10, Mac 10.6 or            later , Android 4.4 or later</p>	Country of origin: China Producer:Teslong	

<p>3.</p>	<p>Similar to is the go-to STEAM learning tool for grade 6-8 students. Combining colorful building elements, easy-to-use hardware, and an intuitive drag-and-drop 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!</p> <p>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 the Set also includes highly accurate motors and sensors that, together with a large variety of colorful 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.</p> <p>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.</p> <p>Sturdy storage box with sorting trays, programmable Hub, Distance Sensor, Force Sensor, Color Sensor, Large Motor, 2 Medium Motors and over 500 appealing similat to elements in a fresh color palette.</p> <p>Programmable Hub features a 5x5 light matrix, 6 input/output ports, integrated 6-axis gyro, speaker, Bluetooth connectivity and rechargeable battery.</p> <p>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.</p> <p>Engage students with 3 STEAM unit plans for grades 6-8 focused on Engineering and Computer Science, linked to curriculum</p>	<p>15 units.</p>	<p>LEGO® Education SPIKE™ Prime Set is the go-to STEAM learning tool for grade 6-8 students. Combining colorful building elements, easy-to-use hardware, and an intuitive drag-and-drop 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!</p> <p>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 the Set also includes highly accurate motors and sensors that, together with a large variety of colorful 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.</p> <p>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.</p> <p>Sturdy storage box with sorting trays, programmable Hub, Distance Sensor, Force Sensor, Color Sensor,</p>	<p>Country of origin: Denmark Producer:Lego</p>	
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	<p>standards, and mostly optimized for 45-minute sessions. Includes comprehensive online lesson plans and teacher support.  Apply engineering design skills at each step of the design process.  Develop efficient problem-solving and coding skills through decomposition of problems and algorithmic thinking.  Design projects that combine hardware and software components to collect and exchange data.  Work with variables, data arrays and cloud data.  Apply critical thinking and develop life skills for the careers of tomorrow.</p>		<p>Large Motor, 2 Medium Motors and over 500 appealing similar to elements in a fresh color palette.  Programmable Hub features a 5x5 light matrix, 6 input/output ports, integrated 6-axis gyro, speaker, Bluetooth connectivity and rechargeable battery.  The drag-and-drop coding environment for tablets and computers is rooted in the popular coding language based on Scratch used by millions of children around the world.  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.  Develop efficient problem-solving and coding skills through decomposition of problems and algorithmic thinking.  Design projects that combine hardware and software components to collect and exchange data.  Work with variables, data arrays and cloud data.  Apply critical thinking and develop life skills for the careers of tomorrow.</p>		
4.	<p><b>Similar to SC-510 (SC-500)</b> 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 projects and 200 more! Includes Projects 1-511 manuals.  Build over 510 projects including:  FM Radio  Adjustable light control  Digital voice recorder  AC Generator  Contains over 75 parts including:  Recording Integrated Circuit  FM Module  Transformer  Analog Meter  Batteries Not Included</p>	10 unit.	<p><b>Elenco Snap Circuits Pro</b>© 510 Experiments (SC-510) ) 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 projects and 200 more! Includes Projects 1-511 manuals.  Build over 510 projects including:  FM Radio  Adjustable light control  Digital voice recorder  AC Generator  Contains over 75 parts including:  Recording Integrated Circuit  FM Module  Transformer  Analog Meter  Batteries Not Included</p>	<p>Country of origin:  China  Producer:Elenco</p>	

<p>5.</p>	<p><b>Similar to 3D FDM printing technology</b>  Extrusion number 1  Maximum size of the 3D printing object 220x220x270 mm  Print speed 150 mm / s  Positioning accuracy 0.1 mm  Duse diameter 0.4 mm  Display is  STL file format, OBJ, AMF  ABS plastic type, PLA, PETG, TPU  Plastic diameter 1.75 mm  Printing temperature 260 °C  Desktop heated 100 C °  Power 350 W  Black color  Dimensions 487x453x622 cm  Weight 9.5 kg  24 month warranty  Code EAN 6971636401346</p>	<p>3 unit.</p>	<p><b>Crealty Ender 3 S1 3D printer</b>  Extrusion number 1  Maximum size of the 3D printing object 220x220x270 mm  Print speed 150 mm / s  Positioning accuracy 0.1 mm  Duse diameter 0.4 mm  Display is  STL file format, OBJ, AMF  ABS plastic type, PLA, PETG, TPU  Plastic diameter 1.75 mm  Printing temperature 260 °C  Desktop heated 100 C °  Power 350 W  Black color  Dimensions 487x453x622 cm  Weight 9.5 kg  24 month warranty</p>	<p>Country of origin:  China  Producer: Creality</p>	
<p>6.</p>	<p><b>Similar to smart home kit</b>  Package Dimensions- 10 x 7.68 x 3.23 inches  Item Weight- 1.59 pounds  ASIN- B08CZ778DJ  Item model number - KS0085  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.  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.  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.  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.   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.   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.</p>	<p>15 unit.</p>	<p><b>KEYESTUDIO Smart Home Starter Kit Package</b>  Dimensions- 10 x 7.68 x 3.23 inches  Item Weight- 1.59 pounds  ASIN- B08CZ778DJ  Item model number - KS0085  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.  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.  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.  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.   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.</p>	<p>Country of origin:  China  Producer:  KEYESTUDIO</p>	

			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.		
7.	<p>DC similar to EOS 800D + 18-55 IS STM KIT 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.</p> <p>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 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</p>	3 unit.	<p>Canon EOS 800D + 18-55 IS STM KIT 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.</p> <p>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 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</p>	Country of origin: China Producer: Canon	
8.	<p>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 TECH SPECIFICATIONS Size 40.9 cm x 30.5 cm x 20.5 cm Weight 6.04 kg Wireless Battery 2600 mAh Li-Ion rechargeable battery 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 Outputs 2x Drive motors 4x Large multicolor LEDs 1x Piezoelectric speaker</p>	1 unit.	<p><b>Root® Lite Class Pack (6 Pack)</b> 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 TECH SPECIFICATIONS Size 40.9 cm x 30.5 cm x 20.5 cm Weight 6.04 kg Wireless Battery 2600 mAh Li-Ion rechargeable battery 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 Outputs 2x Drive motors 4x Large multicolor LEDs 1x Piezoelectric speaker</p>	Country of origin: China Producer: Root	

	<p>1x Marker lift &amp; drop motor  External Connectors  1x Charging cable port  2x Charging contacts</p>		<p>1x Marker lift &amp; drop motor  External Connectors  1x Charging cable port  2x Charging contacts</p>		
<b>10.</b>	<p><b>Similar to EDU drone</b>  VR Headset Compatibility  Fly with a breathtaking first-person view.  DJI Flight  Tech  Industry-leading components to ensure stable flights.  Similar to App  Getting started is extra easy with the similar to app's friendly UI.  Controller Compatibility  Precise control for unforgettable experiences.  720P HD Transmission  5 MP Photos  13-min Flight Time  Precise Hovering  Program a Swarm of Drones  Mission Pads Offer Multiple Fun Uses  Multiple Flight Mode  Unlock More Possibilities with SDK</p>	3 unit.	<p><b>Tello EDU drone</b>  VR Headset Compatibility  Fly with a breathtaking first-person view.  DJI Flight  Tech  Industry-leading components to ensure stable flights.  Similar to App  Getting started is extra easy with the similar to app's friendly UI.  Controller Compatibility  Precise control for unforgettable experiences.  720P HD Transmission  5 MP Photos  13-min Flight Time  Precise Hovering  Program a Swarm of Drones  Mission Pads Offer Multiple Fun Uses  Multiple Flight Mode  Unlock More Possibilities with SDK</p>	Country of origin: China Producer: Tello	
<b>11.</b>	<p><b>Similar to SC750R Training Program</b>  Batteries 4-AA  Parts Included 100  Small parts.  Toy contains a cord.  Not for Children under 3 yrs.  UPC 756619005621  SKU SC750R</p>	15 unit.	<p><b>Elenco SC750R Training Program</b>  Batteries 4-AA  Parts Included 100  Small parts.  Toy contains a cord.  Not for Children under 3 yrs.</p>	Country of origin: China Producer: Elenco	