

ANNEX: TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

Contract title: Equipment for SMART education in Edinet municipality. Lot-1 Equipment for smart lab in kindergartens.

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 proposed equipment must be safe for use in the activities of children aged 3-7 years.

1. Item nr	2. Specifications required	3. Quantity	4. Specifications offered	5. Notes, remarks, ref to documentation (Producer, Country of origin)	6. Nota comitetului de evaluare
1.	Notebook min 15'' max. 16'' IPS FHD (1920x1080) Non-glare, AMD Ryzen 7 4700U or better 16Gb RAM at least, SSD 512GB at least, HDMI, Gbit Ethernet, 802.11ax, Bluetooth, at least 1 USB-C port, 2x USB 3.2 or better ports, HD Webcam, Fingerprint,, at least 45Wh Battery, Illuminated Keyboard, max. 1.7kg, incl. Wireless Keyboard & Mouse kit and carry bag + Windows 10 Pro 64Bit Eng + Office Home and Business 2019 Warranty min. 24 months	4 unit.	NB Lenovo 15.6" IdeaPad 5 15ARE05 Grey (Ryzen 7 4700U 16Gb 512Gb) 15.6" IPS FHD (1920x1080) Non-glare, AMD Ryzen 7 4700U (8x Core, 2.0GHz - 4.1GHz, 8Mb), 16Gb (Onboard) PC4-25600, 512Gb PCIE, AMD Radeon Graphics, HDMI, 802.11ax, Bluetooth, 1x USB-C, 2x USB 3.2, Card Reader, HD Webcam, No OS, 57Wh Battery, Illuminated Keyboard, 1.7kg, Graphite Grey Keyboard & Mouse kit and carry bag + Windows 10 Pro 64Bit Eng + Office Home and Business 2019 Warranty min. 24	Country of origin:China Producer: Lenovo	
2.	Similar to Talking Microscope 2 Modes: Fact Mode and Quiz Mode 20 Slides, each with three four-color photo-quality images, for a total of 60 images 2 Comfortable eyepieces-no need to close one eye! Easy cleanup and storage: slides fit inside microscope Requires 3 AAA batteries (not included) Multilingual audio-4 languages included! 25.65 x 20.57 x 14.22 cm; 680.39 Grams	8 unit.	GeoSafari Jr. Talking Microscope 2 Modes: Fact Mode and Quiz Mode 20 Slides, each with three four-color photo-quality images, for atotal of 60 images 2 Comfortable eyepieces-no need to close one eye! Easy cleanup and storage: slides fit inside microscope Requires 3 AAA batteries (not included) Multilingual audio-4 languages included! 25.65 x 20.57 x 14.22 cm; 680.39 Grams	Country of origin:China Producer: GeoSafari	
3.	Similar to / Smart Train Class (6 trains per set) 32-bit ARM MCU Bluetooth Smart (BLE) 4.2 wireless connectivity 32Mb peripheral flash memory for permanent audio storage Two-way magnetic steering system for reciprocating Programmable electromagnetic wagon connection Over-the-air (OTA) firmware update through the application Compatibility with most wooden train tracks BRIO, IKEA and other brands (track adapters can be purchased separately) programmable sensors 2 color sensors with IR Optical speed sensor <i>Light and sound</i> top feedback lights: 1 programmable RGB LED and 4 white LEDs	4 sets	Intelino SMART TRAIN STARTER SET Main features Robust and durable ABS and polycarbonate shell More than 100 minutes of operation per charge The multifunction button switches the engine on and off and controls additional functions LED indication of battery status: low battery – red, full charge – green Color LED lights can be controlled with the app LEDs on the roof for feedback (start, stop, acceleration, etc.) Built-in Speaker for sound effects High speed DC motor drives the train in both	Country of origin:China Producer: Intelino	

	<p>Programmable RGB LED front and rear lights1 red-green battery charging LED Built-in speaker</p> <p><i>Battery</i></p> <p>Lithium-Polymer battery (350 mAh, 3.7V)</p> <p>working time: 100+ minutes</p> <p>Rechargeable via micro-USB</p> <p>Maximum speed</p> <p>1 m / sec</p> <p>Dimensions (cm): 9.5 x 4 x 4, Weight (g): 88</p> <p><i>The starter kit includes</i></p> <ul style="list-style-type: none"> • 1 smart train with motor • 1 train wagon • 20 tracks (12 curves, 4 straight, 4 two-way) • 40 programming blocks • Stickers to personalize the train <p>USB-A to micro-USB charging cable</p> <p>Warranty min. 24 months</p>		<p>directions</p> <p>Front chromatic sensor scans color markers</p> <p>Also runs on most wooden rails (IKEA, Brio, Woody, etc.)</p> <p>Smart Coupler: electromagnetic clutch is controlled by sensors or app</p> <p>Technical specifications</p> <p>Smart locomotive is powered by 32-bit ARM processor</p> <p>Wireless control for 9 meters with Bluetooth Smart 4.2</p> <p>Three-axis accelerometer</p> <p>Durable transmission assembly with electromagnetic clutch mechanism</p> <p>Motion sensors</p> <p>Top speed 100 cm/sec</p> <p>Li-Po rechargeable battery (micro USB port at the rear of the locomotive)</p> <p>Charging via USB – micro USB cable</p> <p>Over-the-air firmware actualization</p> <p><i>The starter kit includes</i></p> <ul style="list-style-type: none"> • 1 smart train with motor • 1 train wagon • 20 tracks (12 curves, 4 straight, 4 two-way) • 40 programming blocks • Stickers to personalize the train <p>USB-A to micro-USB charging cableWarranty min. 24 months</p>		
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4.	Similar to Education Robot Class Pack 8 indi Robot per set 20 durable, latex-free rubber color tiles 1 student case 15 Beginner's Programming Challenge Cards 1 quick start guide 2 decorative sticker sheets to customize indi 1 charging cable <i>Robot Tech Specs</i> Charge time: 1h 40 min Playtime on full charge: > 1h Max top speed: ~1.6 m/s Bluetooth version: Bluetooth Low Energy (BLE) Bluetooth range: 30 ft (10m) indi Robot: 3in (L) x 2.75in (W) x 1.5in (H) Color Tiles: 6in x 6in	4 sets	Sphero indi Education Robot Class Pack 8 indi robots 8 durable student cases 1 charging case to charge and store 8 indi robots Educator Guide Book 1 classroom tote • 160 durable silicone color tiles (20 per student case) 8 sets of 15 Beginner's Programming Challenge Cards (15 per student case) 2 sets of 30 replacement color cards with adhesive tape sheets 2 decorative sticker sheets for students to customize indi 8 charging cables <i>Robot Tech Specs</i> Charge time: 1h 40 min Playtime on full charge: > 1h Max top speed: ~1.6 m/s Bluetooth version: Bluetooth Low Energy (BLE) Bluetooth range: 30 ft (10m) indi Robot: 3in (L) x 2.75in (W) x 1.5in (H) Color Tiles: 6in x 6in	Country of origin:China Producer: Sphero	
5.	Similar to Makeblock mTiny Coding Kit <i>General</i> Distance range-Within 10m (in open areas) Map piece size-196x186mm((special scenario themed piece x 4)186x186mm(ordinary scenario themed piece x 20) Battery time-2.5h <i>Robot</i> Battery-1800mAh Li-Po Input voltage-5V Input current-1.5A Output equipment-encoder motor x 2, 1.5W Hi-Fi speaker, LCD eyesx 2, RGB LED x 8 Sensors:OID sensor, 6-axis motion sensor Transmission-2.4G Hz wireless <i>Tap pen controller</i> Battery-300mAh Li-Po Input voltage-5V Input current-270mA Input current-270mA Transmission-2.4GHz wireless <i>Part list</i> 1×Robot 1×Tap pen controller 36×Code card 24×Themed map piece 1×Story book_EN 1×Golf game card 1×Racing game card 1×Destination card	24 unit.	Makeblock mTiny Coding Kit Distance range-Within 10m (in open areas) Map piece size-196x186mm((special scenario themed piece x 4)186x186mm(ordinary scenario themed piece x 20) Battery time-2.5h Robot Battery-1800mAh Li-Po Input voltage-5V Input current-1.5A Output equipment-encoder motor x 2, 1.5W Hi-Fi speaker, LCD eyesx 2, RGB LED x 8 Sensors:OID sensor, 6-axis motion sensor Transmission-2.4G Hz wireless Tap pen controller Battery-300mAh Li-Po Input voltage-5V Input current-270mA Input current-270mA Transmission-2.4GHz wireless <i>Part list</i> 1×Robot 1×Tap pen controller 36×Code card 24×Themed mappiece 1×Story book_EN 1×Golf game card 1×Racing game card 1×Destination card 1×Music card 1×2-in-1 Micro USB	Country of origin:China Producer: Makeblock	

	1×Music card 1×2-in-1 Micro USB cable 3×Character mask 1×Flagpole 8×Flag 1×Quick Start Guide 9 Languages 1×Safety Instruction 9 Languages Warranty min. 12 months		cable 3×Character mask1×Flagpole 8×Flag 1×Quick Start Guide 9 Languages 1×Safety Instruction 9Languages Warranty min. 12 months		
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7.	<p>Telescope Educational Insights similar to</p> <p>is a 360mm refractor telescope, with a 50mm objective lens and all-glass eyepieces, and delivers crisp, clear images at magnifications of 18x, 27x, 45x, 67x.</p> <p>The 50mm 2-element coated all-glass objective lens eliminates colour distortion.</p> <p>This telescope for kids comes with a sturdy, aluminum tripod and is lightweight, easy to mount, and great for travelling.</p> <p>It's ideal for watching wildlife and nature and exploring the night sky. Measures 44cm H.</p>	4 unit.	<p>GeoSafari® Vega 360 Telescope</p> <p>is a 360mm refractor telescope, with a 50mm objective lens and all-glass eyepieces, and delivers crisp, clear images at magnifications of 18x, 27x, 45x, 67x.</p> <p>The 50mm 2-element coated all-glass objective lens eliminates colour distortion.</p> <p>This telescope for kids comes with a sturdy, aluminum tripod and is lightweight, easy to mount, and great for travelling.</p> <p>It's ideal for watching wildlife and nature and exploring the night sky.</p> <p>Measures 44cm H.</p>	Country of origin:China Producer: GeoSafari	
8.	<p>Similar to 3 Education Bundle</p> <p>Includes a similar to cutting machine, plus two Learning Kits for paper and vinyl</p> <p>3 easy steps to start your interactive, in-app lessons⁵</p> <p>Cuts 300+ materials, including delicate fabric, paper, matboard, leather & Smart Materials™¹</p> <p>Compatible with Smart Materials™ for long cuts up to 12 ft (3.6 m) in one go²</p> <p>Works with 13 tools to cut, write, score, foil, engrave, deboss & more (sold separately)³</p> <p>Up to 2X faster than its predecessor⁴</p> <p>Use with the free Cricut Design Space app</p> <p>Bluetooth wireless technology*</p> <p>Built-in docking slot and USB port for charging mobile devices</p> <p>Compatible with Cricut Roll Holder (sold separately) to support rolls of Smart Materials up to 75 ft (22.8 m)²</p> <p>Included</p> <p>Similar to machine</p> <p>Premium Fine-Point Blade + Housing</p> <p>Welcome card</p> <p>USB cable</p> <p>Power adapter</p> <p>Free trial subscription to similar to (for new subscribers) 100 ready-to-make projects online</p> <p>Material for a practice cut</p> <p>Bundled with:</p> <p>Similar to – Removable 4 sheets 13 in x 14 in (33 cm x 35.5 cm) in White, Ocean, Red, Maize Yellow</p> <p>Similar to – Permanent 4 sheets 13 in x 14 in (33 cm x 35.5 cm) in White, Black, Blue, Party Pink</p> <p>Similar to Shimmer – Permanent 2 sheets 13 in x 14 in (33 cm x 35.5 cm) in Gold, Purple</p> <p>Similar to Matte Metallic – Permanent 1 sheet 13 in x 14 in (33 cm</p>	4 unit.	<p>Cricut Maker® 3 Bundled with Vinyl & Paper Learning Kits</p> <p>Included</p> <p>Cricut Maker 3 machine</p> <p>Premium Fine-Point Blade + Housing</p> <p>Welcome card</p> <p>USB cable</p> <p>Power adapter</p> <p>Free trial subscription to Cricut Access™ (for new subscribers) 100 ready-to-make projects online</p> <p>Material for a practice cut</p> <p>Bundled with:</p> <p>Smart Vinyl™ – Removable 4 sheets 13 in x 14 in (33 cm x 35.5 cm) in White, Ocean, Red, Maize Yellow</p> <p>Smart Vinyl™ – Permanent 4 sheets 13 in x 14 in (33 cm x 35.5 cm) in White, Black, Blue, Party Pink</p> <p>Smart Vinyl™ Shimmer – Permanent 2 sheets 13 in x 14 in (33 cm x 35.5 cm) in Gold, Purple</p> <p>Smart Vinyl™ Matte Metallic – Permanent 1 sheet 13 in x 14 in (33 cm x 35.5 cm) in Silver</p> <p>Transfer Tape 8 sheets 12 in x 12 in (30.5 cm x 30.5 cm)</p> <p>StrongGrip Transfer Tape 2 sheets 12 in x 12 in (30.5 cm x 30.5 cm)</p> <p>4 R20 cards 4.25 in x 5.5 in (10.8 cm x 14 cm) in Tulip, Powder Blue, Whispering Blue, Lavender</p> <p>4 4 in x 5.25 in (10.2 cm x 13.3 cm) inserts in Silver Holographic</p> <p>4 4.4 in x 5.75 in (11.1 cm x 14.6 cm) envelopes in White</p> <p>Smart Paper™ Sticker Cardstock 4 sheets 13 in</p>	Country of origin:China Producer: Cricut Maker	

x 35.5 cm) in Silver Transfer Tape 8 sheets 12 in x 12 in (30.5 cm x 30.5 cm) StrongGrip Transfer Tape 2 sheets 12 in x 12 in (30.5 cm x 30.5 cm) 4 R20 cards 4.25 in x 5.5 in (10.8 cm x 14 cm) in Tulip, Powder Blue, Whispering Blue, Lavender 4 4 in x 5.25 in (10.2 cm x 13.3 cm) inserts in Silver Holographic 4 4.4 in x 5.75 in (11.1 cm x 14.6 cm) envelopes in White Smart Paper™ Sticker Cardstock 4 sheets 13 in x 13 in (33 cm x 33 cm) in White, Cardinal Red, Yellow, Cornflower Cardstock 10 sheets 12 in x 12 in (30.5 cm x 30.5 cm) in Black, White, Red, Tangerine, True Yellow, Bright Green, Dark Teal, Cornflower, Wild Aster, Light Pink Spatula to lift cuts from mat 2 Weeder tools to remove tiny cuts Scoring Stylus to create fold lines 2 Scraper tools to remove scraps from mat LightGrip Machine Mat 12 in x 12 in (30.5 cm x 30.5 cm) Card Mat – 2x2 13 in x 16.25 in (33 cm x 41 cm) Fine Point Pen (0.4 mm), Black Glitter Gel Pen (0.8 mm), Silver	x 13 in (33 cm x 33 cm) in White, Cardinal Red, Yellow, Cornflower Cardstock 10 sheets 12 in x 12 in (30.5 cm x 30.5 cm) in Black, White, Red, Tangerine, True Yellow, Bright Green, Dark Teal, Cornflower, Wild Aster, Light Pink Spatula to lift cuts from mat 2 Weeder tools to remove tiny cuts Scoring Stylus to create fold lines 2 Scraper tools to remove scraps from mat LightGrip Machine Mat 12 in x 12 in (30.5 cm x 30.5 cm) Card Mat – 2x2 13 in x 16.25 in (33 cm x 41 cm) Fine Point Pen (0.4 mm), Black Glitter Gel Pen (0.8 mm), Silver		
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9.	Similar to Start Learning Pack - 12 Pens 1 Teacher's Kit: 1 Teacher's checklist 1 similar to poster 1 Welcome Note 1 Cheatsheet 2 Lesson Plans 1 EDU Booklet 1 Start Activity Guide 1 similar to Guide 2 Unblocking Tools 1 Troubleshooting Guide 4 Students' Kits: 3 similar to Pens 3 Micro-USB Charging Cables 6 DoodleBlocks 3 Start DoodlePads 1 Plastic Kit: 1200 strands of biodegradable 3Doodler Start Plastic Filaments 12 Sets of Challenge Cards - Each set contains nine challenges of varying difficulty 12 Storage Pouches	8 unit.	3Doodler EDU Start Learning Pack - 12 Pen Set 1 Teacher's Kit: 1 Teacher's checklist 1 similar to poster 1 Welcome Note 1 Cheatsheet 2 Lesson Plans 1 EDU Booklet 1 Start Activity Guide 1 similar to Guide 2 Unblocking Tools 1 Troubleshooting Guide 4 Students' Kits: 3 similar to Pens 3 Micro-USB Charging Cables 6 DoodleBlocks 3 Start DoodlePads 1 Plastic Kit: 1200 strands of biodegradable 3Doodler Start Plastic Filaments 12 Sets of Challenge Cards - Each set contains nine challenges of varying difficulty 12 Storage Pouches	Country of origin:China Producer: 3Doodler	
10.	Interactive Floor with a short-throw projector A „ready-to-go” set in a protective steel case with multiple options for the case color. The average projection size is 126 inch * 71 inch (321*180 cm) from the height of 105 inch (266 cm). The system is controlled by a user-friendly tablet. The set includes: Durable steel case FullHD projector Powerful computer Motion sensor Tablet for control Keyboard with trackpad Software White FOAM mats (option) 24 geometric shapes	4 unit.	Interactive Floor with a short-throw projector A „ready-to-go” set in a protective steel case with multiple options for the case color. The average projection size is 126 inch * 71 inch (321*180 cm) from the height of 105 inch (266 cm). The system is controlled by a user-friendly tablet. The set includes: Durable steel case FullHD projector Powerful computer Motion sensor Tablet for control Keyboard with trackpad Software White FOAM mats (option) 24 geometric shapes	Country of origin:China Producer: KIDSjumpTECH	