

#	Item	Specifications	Quantity	Unit	Example of models	Usage modality
1	Computer	Processor: Intel Core i3 11th generation and above RAM: 8 GB or higher Storage: SSD NVME 240 GB or higher Screen size: from 23.8 inches Screen resolution: 1920x1080 Built-in camera White monoblock body Keyboard and mouse included (Russian keyboard)	15	pcs		12 computers for Linguistics Classrooms; 1 computer for the IT room; 1 - for the entry reception and 1 for teachers' common room.
2	Laptop	Processor: Intel Core i3 11th generation and above RAM: 8 GB or higher Storage: SSD NVME 240 GB or higher Screen size: 14 inches Screen resolution: 1920x1080 HDMI connector Built-in camera Without operating system Russian keyboard	9	pcs		8 laptops for the staff of the innovation Learning Hub, 1 laptop for the Training room on the ground floor
3	Projector	Resolution: 1920x1080 Luminous flux: 5200 lm or more Contrast: 10000:1 and higher HDMI connector Keystone correction Lamp life of at least 5000 hours (White or gray)	6	pcs		1 projector per each classroom
4	Mixer-amplifier USB/Bluetooth player	Modern mixer-amplifier USB/Bluetooth player	1	pcs	AVCLINK Q-120	Ensuring online and remote access of the training room to ensure that trainings could be carried out where the local could be connected online
5	Acoustics two-way wall-mounted white	Корпусная two-way acoustic system. Power (8 Ом): RMS - 35 wt. Power (100w): 24-12-6-3 wt. White	4	pcs	Audac ATEO4MK2/W	
6	Speaker cable professional	PROCAST cable SWH 16.OFC.1,306 installation speaker cable 2x1,306mm ² white	100	m		
7	Video conferencing system	Videocamera (960-001057) ConferenceCam with mic extensions	1	pcs	Logitech Group 960-001057 + Logitech Group Expansion Microphones 989-000171	
8	Projector screen	Screen with electric drive Lumien Eco Control 244x244 cm (working area 236x236 cm) Matte White black border around the perimeter 1:1	1	pcs		
9	Projector brackets	tilt 30°, rotation 360°, distance from ceiling 470-670 mm, load up to 20 kg	6	pcs		

10	Multi-function printer	<p>Tray 1, Tray 2: A4 A5 A6 B5 (JIS) B6 (JIS) 16K (195 x 270 mm, 184 x 260 mm, 197 x 273 mm) 10 x 15 cm Oficio (216 x 340 mm) postcards (JIS, single and double sided) envelopes (DL, C5, B5) optional tray 3: A4</p> <p>A5 A6 B5 (JIS) B6 (JIS) 16K (195 x 270 mm, 184 x 260 mm, 197 x 273 mm) 10 x 15 cm Oficio (216 x 340 mm) postcards (JIS, single and double sided) automatic two-sided printing module: A4</p> <p>B5 16K (195 x 270 mm, 184 x 260 mm, 197 x 273 mm) Oficio (216 x 340 mm)</p>	1	pcs	HP Color Laserjet Pro M479DW W1A77A	Printer to be used by the Innovation learning hub (to be installed in the teacher's room)
11	TV	<p>Seller/Manufacturer Warranty 12 months General parameters and power Type TV LED Nutrition 100-240V~50/60Hz Frame color black Stand color black Production start date 2023 Screen Screen backlight type Edge LED Screen diagonal (inch) 65" Screen diagonal 163 cm Screen resolution 4K UltraHD, 3840x2160 Screen Format 16:9 HDTV standards Ultra HD (4K) 2160p</p>	5	pcs	TV will be distributed to 2 pilot kindergardens that involved in the piloting MTB MLE at pre-school level. 1 TV will be installed by the reception at the Innovation Learning Hub for information display	

12	TV bracket	Main color black Design Adjustment method tilt and rotate Bracket mounting location to Wall Built-in level No Cable channel There is Compatibility Maximum load 30 kg Mount Size Standard (VESA) 100 x 100, 100 x 200, 200 x 100, 200 x 200, 300 x 200, 300 x 300, 400 x 200, 400 x 300, 400 x 400 Minimum screen diagonal (inch) 23" Maximum screen diagonal (inch) 55" Adjustment Mate rotation angle (degree) 90° Up Angle (degree) 3° Down Angle (degree) 10° Adjusting the distance to the wall/ceiling	5	pcs	Bracket to fix the TVs on the wall	
13	Projector screen	Радиус полотна Диагональ экрана (дюйм) 120" Диагональ экрана 305 см Рабочая поверхность 244x183 см Ширина полотна 244 см Высота полотна 183 см Соотношение сторон 4:3 Свойства полотна Проекция прямая Покрытие Matte White Технология ALR нет Цвет экрана белый Корпус Ширина корпуса 2700 мм Глубина корпуса 120 мм Высота корпуса	5	pcs	Wallmount projector screens for all classrooms	

14	Equipment for building a seamless wireless network	Hardware controller (1 pc): - centralized device management - organization of automatic roaming - remote administration	1	150	This is the equipment needed to connect ensure that the entire Innovation learning Hub is connected wireless and stable wi-fi connection is throughout the entire Hub
		Router (1 pc.): - controller compatible - Multi WAN function	1	pcs	
		Switch (or switches): - controller compatible - a total of at least 20 PoE ports with a power budget sufficient to power access points	1	pcs	
		Internal access points (12 pcs.): - controller compatible - support for Passive PoE (the ability to power it from the switch) - Wi-Fi standards: IEEE 802.11 ax/ac/n (Wi-Fi 4, 5, 6) - supports up to 250 simultaneous Wi-Fi connections - support for automatic roaming protocols - Ethernet port 1 Gbit/s - installation on the ceiling or wall	12	pcs	
		External access points (2 pcs.): - controller compatible2 - support for Passive PoE (the ability to power it from the switch) - Wi-Fi standards: IEEE 802.11ax/ac/n (Wi-Fi 4, 5, 6) - supports up to 250 simultaneous Wi-Fi connections - support for automatic roaming protocols - Ethernet port 1 Gbit/s	2	pcs	
		Network cable - twisted pair (1 coil, 305 m): - category 5e - shielded (FTP) - for installation outdoors - conductor material: copper - single-core - core section thickness of at least 0.5 mm (24AWG) - number of pairs: 4	1	pcs	
TOTAL					