ANNEX B

TECHNICAL SPECIFICATIONS FOR PROCUREMENT, DELIVERY, INSTALLATION, CONFIGURATION AND HANDOVER OF TECHNOLOGICAL EQUIPMENT PACKAGES IN 30 PILOT SCHOOLS

1. TECHNICAL SPECIFICATIONS OF THE EQUIPMENT

Laptop **Quantity: 150 Units**

MINIMUM TECHNICAL SPECIFICATIONS	
Min Proc. Rating According to: cpubenchmark.net:	4900 Points
"Chipset":	Intel or Equivalent
"RAM":	8 GB DDR4 min. 2400 MHz
"HDD Size"	256 GB SSD
"Graphics":	Integrated HD Graphics
"Display":	Min. 15.6" FHD LED (1920 x 1080), Anti-Glare
"Battery":	Min. 45 Wh
COMMUNICATION AND MANAGEMENT	
"Ports":	Min. (3) USB, where at least (2) are USB 3.0 /; (1/1) Headphone/Microphone Jack or (1) Combo Jack; (1) Integrated Web Camera; (1) Integrated Mic. (1) DisplayPort or HDMI
"Networking":	10/100/1000 Mbps LAN (RJ-45); Wireless 802.11 ac (Compatible with 802.11b/g/n); Bluetooth min. V4.0;
"Preinstalled Licensed O. S.":	Windows 10/11 64-bit Professional or Education Edition 64-Bit
"Keyboard":	QWERTY
"Sound":	Integrated, (2) x built-in Speakers (stereo)
"Pointing Device":	Touch pad
"Security"	Trusted Platform Module TPM 2.0
ACCESSORIES	
"Power Cord":	Yes, European

“Recharger”:	Yes
“**Mouse”:**	Yes, of the same brand as the laptop
“Recover”:	Recover Partition
WARRANTY	
“Warranty”:	3 Years

Smart Boards Quantity: **30 Units**

MINIMUM TECHNICAL SPECIFICATIONS	
“Display”:	Minimum 85-inch display, 16:9 aspect ratio, with support for at least 16 simultaneous touch points.
“Resolution”:	3840 x 2160 (4K UHD)
“Constrast Ratio Static”:	1000:1 or equivalent or better.
CPU:	Min 1.3 GHz, or equivalent or better.
RAM:	Min. 3 GB
Storage:	Min. 32 GB
“Networking”:	Wi-Fi Ethernet RJ45
“Speakers”:	Yes, integrated
“Operating System”:	Yes, according to the version supplied with the device model.
“Interactive Pen”:	At least 2 pieces
“Warranty”:	3 Years
FUNCTIONALITY	
The Interactive Smart Board shall provide, at a minimum, the following functionalities: - Whiteboard functionality, enabling teachers to conduct lessons by writing and annotating directly on the board. - Wireless Screen Sharing, enabling students to connect directly to the digital board and present their work to the teacher and the rest of the laboratory. - Integrated operating system, allowing the installation and use of remote-connectivity applications to support teaching by teachers located at another location. - Web browsing applications	
MOUNTING	
- The Smart Board shall be securely wall-mounted using suitable, safe and durable brackets and fixing materials.	

PROJECTOR Quantity: **30 Units**

MINIMUM TECHNICAL SPECIFICATIONS	
"Type":	DLP or LCD or Equivalent
"Brightness":	3000 ANSI Lumen
"Resolution":	WXGA 1280 x 800
"Video Compatibility":	NTSC/PAL
"Lamp Life":	6000 hours, Standard
"Contrast Ratio":	5 000:1
"Lens Adjusting":	F Number, Zoom Manual, Focus Manual
COMMUNICATION AND MANAGEMENT	
"Input Terminal":	(1) VGA (an adaptor may be used), (1) HDMI, (1) USB
ACCESSORIES	
"Power Cord":	European
"Remote Control":	Yes
"Included Cords":	(1) VGA – VGA, (1) HDMI – HDMI; Kabujt duhet të kenë gjatësi min. 3 m / The cables should have a length of min. 3m
"CD User Manual":	Yes
"Carrying Bag":	Yes
WARRANTY	
"Warranty":	2 Years
MOUNTING	
- The projector shall be portable and shall not require permanent wall or ceiling mounting.	

PROJECTOR SCREEN (Portable 120" screen with stand) Quantity: **30 Units**

MINIMUM TECHNICAL SPECIFICATIONS	
Screen Type	Portable projector screen with free-standing stand
Screen Size	Minimum 120" diagonal or equivalent
Aspect Ratio	16:9 widescreen
Projection Type	Front projection
Viewing Area	Approximately 2650 × 1490 mm or equivalent
Screen Surface	Matte white or equivalent low-glare projection surface
Gain	Approximately 1.0–1.2 or equivalent
Viewing Angle	Minimum approximately 160° or equivalent
Surface	Smooth, uniform and suitable for classroom projection
Frame/Structure	Rigid, durable and suitable for repeated assembly and use
Stand	Stable, free-standing and adjustable, with suitable support for the screen size
Height Adjustment	Adjustable or otherwise suitable for classroom viewing
Portability	The screen and stand shall be designed for easy transport and relocation
Storage/Transport	Carrying bag/case or equivalent protective solution shall be included
Accessories	All components, brackets, supports, fixing/stabilising elements and accessories required for normal operation shall be included
Warranty	Minimum 2 years

2. LIST OF SCHOOLS

School	County	Municipality	City/Village Name	City or Village
Fiqiri Dine Maqellarë	Dibër	Dibër	Maqellarë	Village
Gjergj Kastrioti Kastriot	Dibër	Dibër	Kastriot	Village
Said Najdeni	Dibër	Dibër	Peshkopi	City
Koli Allkanjari Këmishtaj	Fier	Divjakë	Këmishtaj	Village
Miti Zoi Zaka	Fier	Divjakë	Divjakë	City
Çermë Sektor	Fier	Divjakë	Çermë Sektor	Village
Bilal Golemi	Gjirokastër	Gjirokastër	Çepun	Village
Feim Ibrahimi	Gjirokastër	Gjirokastër	Gjirokastër	City
Pandeli Sotiri	Gjirokastër	Gjirokastër	Gjirokastër	City
Siri Shapllo	Gjirokastër	Gjirokastër	Gjirokastër	City
Elmaz Ademi	Kukës	Kukës	Bardhoc	Village
Skenderbeu	Kukës	Has	Krume	City
Bajram Abdiu	Kukës	Kukës	Bicaj	Village
Havzi Nela	Kukës	Kukës	Kukës	City
At'Shtjefën Gjeçovi	Lezhë	Kurbin	Laç	City
Arif Halil Sulaj	Lezhë	Kurbin	Mamurras	City
Milot	Lezhë	Kurbin	Milot	City
Gostime	Elbasan	Librazhd	Polis-Gostime	Village
Ibrahim Muça	Elbasan	Librazhd	Librazhd	City
Rrahman Cota	Elbasan	Librazhd	Hotolisht	Village
Halit Berzeshta	Elbasan	Prrenjas	Prrenjas	City
14 Engjejt Buçimas	Korçë	Pogradec	Buçimas	Village
Gjergj Pekmezi	Korçë	Pogradec	Pogradec	City
Muharrem Çollaku	Korçë	Pogradec	Pogradec	City
Qemal Bazelli Çërravë	Korçë	Pogradec	Çërravë	Village
5 Dëshmorët	Vlorë	Sarandë-Konispol-Delvine	Ksamil	Village
Hasan Tahsini	Vlorë	Sarandë-Konispol-Delvine	Sarandë	City
Isa Adem Boletini	Tiranë	Vorë	Vorë	City
Vajdin Lamaj	Tiranë	Vorë	Domje	Village
Ramiz Aranitasi	Çorovodë	Skrapar	Çorovodë	City
TOTAL — 30 Schools				

3. CURRENT INFRASTRUCTURE OF THE SELECTED SCHOOLS

School Name	Municipality	Classroom Measurement	Number of electrical plugs in the classroom	Positioning of the existing plugs
Fiqiri Dine Maqellarë	Diber	8x5.6m	2	Side Walls
Gjergj Kastrioti Kastriot	Dibër	9x5m	3	Side Walls
Said Najdeni	Dibër	8x4m	4	Side Walls
Koli Allkanjari Këmishtaj	Divjakë	7x5m	2	Side Walls
Miti Zoi Zaka	Divjakë	12x5m	4	Side Walls
Çermë Sektor	Divjakë	7x5m	7	Side Walls
Bilal Golemi	Gjirokastër	5x5m	6	Side Walls
Feim Ibrahimi	Gjirokastër	5x3.5m	5	Side Walls
Pandeli Sotiri	Gjirokastër	7.5x5m	18	Side Walls
Siri Shapllo	Gjirokastër	8x5m	10	Side Walls
Elmaz Ademi	Kukës	8.4x5m	10	Side Walls
Skenderbeu	Has	7x5m	2	Side Walls
Bajram Abdiu	Kukës	8x5m	2	Side Walls
Havzi Nela	Kukës	14x5m	2	Side Walls
At'Shtjefën Gjeçovi	Kurbin	7.5x5m	6	Side Walls
Arif Halil Sulaj	Kurbin	7x7m	4	Side Walls
Milot	Kurbin	8x5m	2	Side Walls
Gostime	Librazhd	8x4m	10	Side Walls
Ibrahim Muça	Librazhd	8x6m	2	Side Walls
Rrahman Cota	Librazhd	4x5m	2	Side Walls
Halit Berzeshta	Prrenjas	9.5x5m	2	Side Walls
14 Engjejt Buçimas	Pogradec	8x5m	2	Side Walls
Gjergj Pekmezi	Pogradec	9.5x5.5m	12	Under the classroom desks
Muharrem Çollaku	Pogradec	8x5m	10	Side Walls
Qemal Bazelli Çërravë	Pogradec	8x5m	1	Side Walls
5 Dëshmorët	Sarandë	9x4m	2	Side Walls
Hasan Tahsini	Sarandë	7x5m	1	Side Walls
Isa Adem Boletini	Vorë	10x6.5m	4	Side Walls
Vajdin Lamaj	Vorë	5.5x4.5m	4	Side Walls
Ramiz Aranitasi	Skrapar	7.5x5m	2	Side Walls