PROPOSAL SUBMITTAL FORM 11: DEVICE PROPOSAL FUNCTIONALITY COMPLIANCE

LAPTOPS

	MINIMUM FUNCTIONALITY SPECIFICATION	PROPOSAL MEETS MINIMUM YES	NO	NOTES/EXCEPTIONS
a	Convertible notebook that allows the device to switch between laptop, tablet, and tent forms. Keyboard remains attached to the device at all times.	✓		
b	Attached full-size keyboard that should be able to flip around out of the way in tablet mode	✓		
c	Processor - Intel Celeron N4100 Processor (1.10 GHz, up to 2.40GHz Burst, 2MB cache), Intel® Pentium® N4200 Quad Core Processor (2M Cache, 1.1 GHz with Turbo up to 2.5 GHz), or Pentium 4405U Dual Core Processor (2M Cache, 2.1 GHz), Intel Core i5 processor (2MB, 2.3GHz dual-core with Turbo Boost up to 3.6GHz)	✓		Processor - Intel Celeron N4100
d	4GB DDR3L RAM	✓		
e	Intel® HD Graphics 500 Series Video	✓		
f	Storage - 120GB SSD hard drive. eMMC not accepted	✓		
g	Weight - 3.5 lbs or less (additional detail under "Device Portability")	✓		
h	Wi-Fi – 802.11 a/b/g/n/ac Wi-Fi (802.11n 2.4GHz and 5GHz)	✓		
n	Miracast (Intel® Wireless Display) Compliant	✓		
o	Bluetooth – 4.0 wireless technology or greater	✓		
p	Operating System – Windows 10 Education	✓		System will receive the OS from PRDE.
s	1.0 MP front-facing cameras (world facing cameras are optional)	✓		
t	Rechargeable battery - eight-hour battery capacity that will allow the device to be used throughout a standard school day with the wireless antenna activated without being recharged (additional detail under "Device Power"	✓		Up to 13 hours
u	Display - 11.6-inch diagonal multi-touch capacitive touch display capable of operating with the attached keyboard -1080 x 800 or 1366 x 768 minimum resolution or better	✓		FHD 1920 x 1080 resolution
v	Built-in mono-speaker (2w)	✓		Two (2w) built-in speakers
w	Input/output interfaces for video, keyboard, computer, audio and capable of connecting to standard video output devices such as digital projectors, smart boards, computer monitors, and TVs (additional detail under "Ports and Print Service"). At minimum, the device must include the following ports:	✓		
	2 USB (at least one of which is USB 3.0)	✓		
	1 HDMI or HDMI adapter (storage containers for any proposed adapters must be included in proposal)	✓		
	1 3.5-mm stereo headphone mini-jack	✓		
	1 RJ-45 or RJ-45 adapter (storage containers for any proposed adapters must be included in proposal)	✓		
x	Built-in microphone	✓		
y	AC power adapter and appropriate interface/power cable (minimum 5 ft. length)	✓		
dd	Ruggedized casing or protective cover that is, at a minimum, capable of providing protection for the device sustaining a four-foot drop. Drop test should be performed in accordance with MIL-STD- 810G.6 Procedure IV. Additionally, shock test should be performed in accordance with MIL-STD- 810G, Method 516.6 Procedure I. Proposal must detail all tests that have been completed on the device, and what certifications the device holds regarding drop, shock and spill testing.	✓		
ff	All electrical components must be Underwriters Laboratory (UL) Listed.	✓		

TABLETS

	MINIMUM FUNCTIONALITY SPECIFICATION	PROPOSAL MEETS MINIMUM YES	PROPOSAL MEETS MINIMUM NO	NOTES/EXCEPTIONS
a	Tablet form factor			N/A
b	Processor 1.3 GHz Apple A7 processor or Intel Celeron N4100 Processor (1.10 GHz, up to 2.40GHz Burst, 2MB cache), Intel® Pentium® N4200 Quad Core Processor (2M Cache, 1.1 GHz with Turbo up to 2.5 GHz), or Pentium 4405U Dual Core Processor (2M Cache, 2.1 GHz)			
c	1GB RAM			
d	Storage - 32 GB			
e	Weight – 2.0lb or less			
f	Wi-Fi – 802.11 a/b/g/n Wi-Fi (802.11n 2.4GHz and 5GHz)			
g	Bluetooth – 4.0 wireless technology or greater			
h	1.0 MP front-facing (world facing cameras are optional)			
i	Built-in mono-speaker (2w)			
j	AC power adapter and appropriate interface/power			
k	Ruggedized casing or protective cover that is, at a minimum, capable of providing protection for the device sustaining a four-foot drop. Drop test should be performed in accordance with MIL-STD- 810G.6 Procedure IV. Additionally, shock test should be performed in accordance with MIL-STD- 810G, Method 516.6 Procedure I. Proposal must detail all tests that have been completed on the device, and what certifications the device holds regarding drop, shock and spill testing.			
m	All electrical components must be Underwriters Laboratory (UL) Listed			
n	Minimum tablet screen size is 7.9 inches Rechargeable battery – eight-hour battery capacity that will allow the device to be used throughout a standard school day with the wireless antenna activated without being recharged.			

CARTS

	MINIMUM FUNCTIONALITY SPECIFICATION	PROPOSAL MEETS MINIMUM YES	NO	NOTES/EXCEPTIONS
a	The cart must house at least 30 devices.	✓		36 devices
b	The external construction must be made from welded 12 - 18-gauge solid steel frame	✓		
c	The shelving must be 20-gauge steel or thicker	✓		
d	Slot size be at least 1.25" or more to accommodate current PRDE issued student laptops and tablets with keyboards	✓		
e	Dividers must be consisting of shock absorbing ABS Plastic or Nylon shelf divider system to prevent wear and tear on devices	✓		
f	Cart width must not exceed 28" to fit through all classroom doors and cart footprint should be as small as possible to take up less space in the classroom (e.g. 28" x 28")	✓		Type text here
g	Electrical components must be UL listed and cart shall have a switch located on the exterior of the cart to enable switching off of power to the cart if necessary	✓		
h	Charging components shall deliver a sufficient number of amps per device to allow for charging in the shortest period of time without negatively affecting the electronics of the devices	✓		
i	Must work with a standard 15 Amp electrical circuit. Smart power management system that prevents circuit tripping and protects devices by charging "round robin" style and is current sensing (able to determine the changing needs of the connected devices).	✓		
j	Cart must be constructed of steel or similar durable metal that prevents exterior access to the contents without opening doors (no removable panels)	✓		
k	External LED to indicate charging status	✓		
l	Cart must have a cable management system to organize power adapters.	✓		
m	Carts must have lockable doors and must include everything needed to secure equipment, either through a metal hasp and padlock, and/or keyed locking handles; ideally with multi-point security (2 or 3 bolt locking system). If a padlock (keyed or combination) is required it must be included.	✓		
n	The casters must have oversized (4" - 6" diameter and at least 1" width) industrial grade balloon (solid rubber) tires with metal construction swivel castors capable of supporting 250+ lb. each). Non-marring rubber must provide easy rolling, quiet transport and be fully lockable.	✓		
o	Carts must adhere to UL's 10-degree tip threshold.	✓		
p	Carts must conform to common electrical and general safety standards (e.g. UL 60950, 1678, 1667, 498, etc.)	✓		
q	Full access double doors in the front for the user and in the rear for the IT Administrator.	✓		
r	Mostly unobstructed top work surface to accommodate peripherals such as printers or other devices.	✓		
s	Cart must also provide ventilation vents to ensure devices don't overheat while charging in cart.	✓		