

## QUALITY CONTROL PLAN

*This QC Plan is designed mainly for the inspection and acceptance of IT Equipment under the PREP II Project.*

<b>PR/MAR #:</b> PR-QTA-407	<b>Tender #:</b> PAK-QTA-006/2021
<b>PR/MAR Description:</b> Provision of Tablet, Computer, Web Cam for 30 Government Schools and 16 ALP Centers ( Accelerated Learning Program) under PREP II Project.	

*This Quality Control Plan details the procedures that will be used to inspect and determine the acceptability of the listed items. Inspection and acceptance of the listed items will be done following the procedure in this Quality Control Plan*

### Essential Specifications and Testing Requirements

*List all items/deliverables*

1. **Samsung 8-inch Tablet SM-T295 or Equivalent**
2. **Ultra Compact PC i3 7<sup>th</sup> generation**
3. **Logitech C93E business webcam**

**1. For each item, identify the ESSENTIAL parameters,**

No	Item	Parameter
1	<b>Samsung 8-inch Tablet SM-T295 or Equivalent</b>	<ul style="list-style-type: none"> <li>Processor CPU Speed: 2GHz</li> <li>CPU Type: Quad-Core</li> <li>Display Size 8.0"</li> <li>Resolution (Main Display): 1280 x 800 (WXGA)</li> <li>Technology: TFT</li> <li>Color Depth: 16M</li> <li>Main Camera Resolution: 8.0 MP</li> <li>Main Camera Auto Focus</li> <li>Front Camera Resolution: 2.0 MP</li> <li>Video Recording Resolution: FHD (1920 x 1080)@30fps</li> <li>Memory: 2GB RAM</li> <li>ROM Size: 32GB Storage</li> <li>Single-SIM</li> <li>External Memory Support: MicroSD</li> <li>USB Version: USB 2.0</li> <li>Location Technology: GPS, Glonass, Beidou</li> <li>Ear jack: 3.5mm Stereo</li> <li>Wi-Fi: 802.11 a/b/g/n 2.4+5GHz</li> <li>Wi-Fi Direct</li> </ul>

		<ul style="list-style-type: none"> <li>• <i>Bluetooth Version: Bluetooth v4.2</i></li> <li>• <i>Smart Switch</i></li> <li>• <i>Android 9 /10</i></li> <li>• <i>Sensors: Accelerometer, Light Sensor</i></li> <li>• <i>5100mAh Battery</i></li> <li>• <i>Video Playing Resolution: FHD (1920 x 1080) @30fps</i></li> <li>• <i>Custom ROM for (Mercy Corps) Branding</i></li> <li>• <i>Eye-Level Adjustable, Foldable Tablet Stand</i></li> <li>• <i>Protective back cover</i></li> <li>• <i>Screen protective glass cover</i></li> </ul>
2	<b><i>Ultra compact PC Core i3 7th Gen Minimum Specification (Intel NUC / ASUS Ultra Compact PC) or equivalent</i></b>	<ul style="list-style-type: none"> <li>• <i>Dimension 4.6" x 4.4" x 1.55"</i></li> <li>• <i>Corei3 7th gen</i></li> <li>• <i>4GB RAM</i></li> <li>• <i>256GB SSD</i></li> <li>• <i>Gigabit LAN</i></li> <li>• <i>802.11 a/b/g/n/ac Wi-Fi</i></li> <li>• <i>Bluetooth</i></li> <li>• <i>HDMI</i></li> <li>• <i>Wireless Keyboard &amp; Mouse</i></li> <li>• <i>Windows 10 Home 64bit</i></li> <li>• <i>One Year standard warranty</i></li> </ul>
3	<b><i>Logitech C930E BUSINESS WEBCAM or Equivalent (Minimum Requirement)</i></b>	<ul style="list-style-type: none"> <li>• <i>Full HD 1080p video calling (up to 1920 x 1080 pixels;</i></li> <li>• <i>720p HD video calling (up to 1280 x 720 pixels) with supported clients</i></li> <li>• <i>H.264 video compression</i></li> <li>• <i>90° field of view</i></li> <li>• <i>Zoom to 4X in 1080p</i></li> <li>• <i>Right light 2 Technology for clarity in various lighting environments, even low light</i></li> <li>• <i>Autofocus</i></li> <li>• <i>External privacy shutter</i></li> <li>• <i>2 omni-directional mics</i></li> <li>• <i>Hi-speed USB 2.0 certified (USB 3.0 ready)</i></li> <li>• <i>Tripod-ready universal clip fits laptops, LCD, or CRT monitors</i></li> </ul>

## **2. Procedures for quality control inspections**

Inspection of IT equipment ordered under the PREP II Project will be performed for compliance with the specifications and standards.

Inspection will be performed by the IT staff who requested for the items. The inspection will be followed by acceptance if at all the items meet our minimum technical requirements as spelt out in the QCP or rejection for non-complying items.

### 01. Samsung 8-inch Tablet

Parameter	Target Value	Margin of Error (Absolute or Relative) <sup>1</sup>	Testing Method (Lab Test, Visual, Certificate...)	Performed / Reviewed by:
Display Size	8 Inches 185.6 cm <sup>2</sup> (~71.0% screen-to-body ratio)	+ or -5%	Visual and measure	Country IT Team
Processor Speed	2GHz, Quad-Core	+ or -5%	Visual and measure	Country IT Team
Memory (RAM)	2 GB	+ or -5%	Visual and measure	Country IT Team
ROM size (Internal Memory / Storage)	32 GB	+ or -5%	Visual and measure	Country IT Team
Network Technology	Single SIM GSM / HSPA / LTE	+ or -2%	Visual and measure	Country IT Team
Processor CPU Speed	2GHz	+ or -5%	Visual and measure	Country IT Team
CPU Type	Quad-Core	+ or -5%	Visual and measure	Country IT Team
Resolution (Main Display)	1280 x 800 (WXGA)	+ or -5%	Visual and measure	Country IT Team
Technology	TFT	+ or -5%	Visual and measure	Country IT Team
Color Depth	16M	+ or -5%	Visual and measure	Country IT Team
Main Camera Resolution	8.0 MP	+ or -5%	Visual and measure	Country IT Team
Front Camera Resolution	2.0 MP	+ or -5%	Visual and measure	Country IT Team
Video Recording Resolution	FHD (1920 x 1080)@30fps	+ or -5%	Visual and measure	Country IT Team
Memory	2GB RAM	+ or -5%	Visual and measure	Country IT Team
ROM Size	32GB Storage	+ or -5%	Visual and measure	Country IT Team
External Memory Support	MicroSD	+ or -5%	Visual and measure	Country IT Team
USB Version	USB 2.0	+ or -5%	Visual and measure	Country IT Team
Location Technology	GPS, Glonass, Beidou	+ or -5%	Visual and measure	Country IT Team
Ear jack	3.5mm Stereo	+ or -5%	Visual and measure	Country IT Team
Wi-Fi	802.11 a/b/g/n 2.4+5GHz	+ or -5%	Visual and measure	Country IT Team
Wi-Fi Direct	Yes	+ or -5%	Visual and measure	Country IT Team
Bluetooth Version	Bluetooth v4.2	+ or -5%	Visual and measure	Country IT Team
Smart Switch	Yes	+ or -5%	Visual and measure	Country IT Team
Android	9 or 10	+ or -5%	Visual and measure	Country IT Team
Sensors	Accelerometer, Light Sensor	+ or -5%	Visual and measure	Country IT Team

<sup>1</sup> A relative margin of error will be indicated as a percent (example: +-5%); an absolute margin of error will be indicated as a value (example: +- 5cm)

Battery	5100 mAh	+ or -5%	Visual and measure	Country IT Team
Video Playing Resolution	FHD (1920 x 1080) @30fps	+ or -5%	Visual and measure	Country IT Team
Custom ROM (Optional)	(Mercy Corps) Branding	+ or -50%	Visual and measure	Country IT Team
Tablet Stand	Eye-Level Adjustable, Foldable	+ or -10%	Visual and measure	Country IT Team
Protective back cover	Compatible	+ or -10%	Visual and measure	Country IT Team
Screen protective glass cover	Compatible	+ or -10%	Visual and measure	Country IT Team

### 02. Ultra Compact PC

Parameter	Target Value	Margin of Error (Absolute or Relative)	Testing Method (Lab Test, Visual, Certificate...)	Performed / Reviewed by:
Dimension	4.6" x 4.4" x 1.55"	±5%	Visual and measure	Country IT Team
Processor (CPU)	Corei3 7th gen	+ -5%	Visual and measure	Country IT Team
RAM	4GB	+ -5%	Visual and measure	Country IT Team
SSD Hard Drive	256GB SSD	+ -5%	Visual and measure	Country IT Team
Lan Card	Gigabit	+ -5%	Visual and measure	Country IT Team
Wi-Fi	802.11 a/b/g/n/ac	+ -5%	Visual and measure	Country IT Team
Connectivity	Bluetooth	+ -5%	Visual and measure	Country IT Team
Ports	HDMI	+ -3%	Visual and measure	Country IT Team
Keyboard / Mouse	Wireless	+ -5%	Visual and measure	Country IT Team
Operating System	Windows 10 Home 64bit	+ -5%	Visual and measure	Country IT Team
Warranty	One Year Standard	+ -5%	Visual and measure	Country IT Team

### 03. Business Web Cam

Parameter	Target Value	Margin of Error (Absolute or Relative)	Testing Method (Lab Test, Visual, Certificate...)	Performed / Reviewed by:
Resolution	Full HD 1080p video calling (up to 1920 x 1080 pixels);	+ -5%	Visual and measure	Country IT Team
Video calling	720p HD (up to 1280 x 720 pixels)	+ -5%	Visual and measure	Country IT Team
Video compression	H.264	+ -5%	Visual and measure	Country IT Team
Field of view	90°	+ -5%	Visual and measure	Country IT Team

Zoom	4X in 1080p	+/-5%	Visual and measure	Country IT Team
Focus	Autofocus	+/-5%	Visual and measure	Country IT Team
Shutter	External privacy	+/-5%	Visual and measure	Country IT Team
Mics	2 Omni-directional	+/-5%	Visual and measure	Country IT Team
Connectivity	Hi-speed USB 2.0 certified (USB 3.0 ready)	+/-5%	Visual and measure	Country IT Team
Tripod-	Universal clip fits laptops, LCD, or CRT monitors	+/-5%	Visual and measure	Country IT Team

All the IT equipment will be checked according to technical specifications as per the order.

### Contract Testing Requirements

For (Goods)

Percent of Tablet, PC, Webcam to be tested - Sampling size- (%)	Frequency	Percent of tested sampling that needs to fail for the entire order to be considered non-conforming (%)
100%	Per order (PO)	95%

### Non-Conformance

- **What to do in cases of non-conformance to agreed quality standards**
- **. If more than 10% of the sampled 10% is non-conforming the whole shipment is returned and delay penalties will be enforced if applicable.**
- **If less than 10% of the sampled 10% is non-conforming the contractor/vendor should provide MC with quantities equal to the percentage of non-conforming items sampled, times the whole quantity.**
- **Payment will only be processed for accepted items.**