



REPUBLIC OF THE PHILIPPINES  
Department of Health  
**NATIONAL CENTER FOR MENTAL HEALTH**  
Nueve de Febrero Street, Mandaluyong City, Philippines



**BIDS AND AWARDS COMMITTEE**

Telephone No. 531-9001 loc. 242

Telefax No. 5318318

E-mail: bacncmh@yahoo.com

Website: www.ncmh.gov.ph

**Section VI**  
**Schedule of Requirements**

***ITB No. 027-2022***

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

ITEM NO.	DESCRIPTION	QTY	TOTAL	Delivered, Weeks/Months
HDS22-01	<b>HIGH-SPEED DEPARTMENTAL SCANNER (Dual Scan, Straight-Pass Feeder, &amp; Document Protection)</b> <b>Estimated Specifications:</b> 1. Dimensions: w 15in x d 15in x h 12in 2. Daily Volume: At least 10,000 up to 20,000 pages per day 3. Feeder Capacity: minimum of 200 sheets of 70 g/m2 4. Optical Resolution: 600dpi 5. Document Size: 210mm x 297mm or A4, can also handle A8, ID cards, embossed hard cards and insurance cards 6. Departmental Scanner Features: <ul style="list-style-type: none"><li>• Dual-pass</li><li>• On-board automatic image processing (Automatic orientation, cropping, color balance, brightness, and contrast)</li><li>• Straight-through paper path option</li><li>• Document protection</li><li>• Multi-feed detection</li></ul>	2	360,000.00	60 to 90 calendar days
HDS22-01	<b>Bundled Proprietary Software w/ document archiving &amp; indexing capabilities</b> <b>Estimated Specifications:</b> 1. Bundled proprietary software that can handle document archiving and automated indexing <ul style="list-style-type: none"><li>• Digital stamping/watermark</li><li>• Content-based blank page removal</li><li>• De-skew</li><li>• Image edge and hole fill</li><li>• Image merge and split</li></ul> <b>Standard Requirements:</b> 1. Delivery within 45 calendar days 2. Certification that the unit is brand-new inclusive of out-of-the box warranty on parts and labor 3. One (1) Year Warranty w/ on-site preventive maintenance 4. Provision of training for End-Users and System Administrators – Installation and Configuration, Basic Troubleshooting, Preventive Maintenance 5. Installation Assistance	2	140,000.00	60 to 90 calendar days



ITEM NO.	DESCRIPTION	QTY	TOTAL	Delivered, Weeks/Months
	6. Certification of availability of parts, and consumables subjected to wear and tear such as but not limited to feed tray, output tray, buttons, modules, pads and rollers, etc.			
	7. Technical Support during office hours			

\_\_\_\_\_  
**CONFORMED BY:**  
 (Signature over printed name)

\_\_\_\_\_  
**DATE:**





REPUBLIC OF THE PHILIPPINES  
Department of Health  
**NATIONAL CENTER FOR MENTAL HEALTH**  
Nueve de Febrero Street, Mandaluyong City, Philippines



**BIDS AND AWARDS COMMITTEE**

Telephone No. 531-9001 loc. 242

Telefax No. 5318318

E-mail: bacncmh@yahoo.com

Website: www.ncmh.gov.ph

**Section VI**  
**Schedule of Requirements**

**ITB No. 027-2022**

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

ITEM NO.	DESCRIPTION	QTY	TOTAL	Delivered, Weeks/Months
ADP22-01	<b>3-in-1 Ink Tank Printer</b> 1. Printer Type: Print, Scan, Copy   2. Print Method: On-demand inkjet (Piezoelectric)   3. Nozzle Configuration: 180 x 1 nozzles Black, 59 x 1 nozzles per Colour (Cyan, Magenta, Yellow)   4. Maximum Resolution: 5760 x 1440 dpi   5. Photo Default - 10 x 15 cm / 4 x 6 "   6. Approx. 69 sec per photo (Border) / 90 sec per photo (Borderless) 7. Draft, A4 (Black / Colour): Up to 33.0 ppm/ 15.0 ppm 8. ISO 24734, A4 Simplex (Black / Colour): Up to 10.0 ipm / 5.0 ipm   9. Maximum Copy Resolution: 600 x 600 dpi   10. Scan speed, Flatbed (Black / Colour): 200dpi: Up to 11 sec / Up to 32 sec   11. Black Ink Bottle: Page Yield: 4,500 Pages 12. Cyan Ink Bottle: Page Yield: 7,500 Pages (Composite Yield), 13. Magenta Ink Bottle: Page Yield: 7,500 Pages (Composite Yield), 14. Yellow Ink Bottle: Page Yield: 7,500 Pages (Composite Yield)	59	548,700.00	60 to 90 calendar days
	<b>Impact Dot Matrix Printer</b> Printer Method: Impact Dot Matrix 1. Printer Method: Impact Dot Matrix 2. Control Panel: 4 switches and 5 LEDs   3. Print Direction: Bi-direction with logic seeking Number of Pins in Head: 9 pins   4. Control Code: ESC/P and IBM PPDS emulation 5. Number of Pins: 9   6. Character Sets: Italic table, PC437 (US Standard Europe), PC850 (Multilingual Bitmap Fonts: a. <b>Epson Draft:</b> 10, 12, 15 cpi; Epson Roman & <b>Sans Serif:</b> 10, 12, 15 cpi, Proportional, Epson OCR-B	9	116,550.00	60 to 90 calendar days



ITEM NO.	DESCRIPTION	QTY	TOTAL	Delivered, Weeks/Months
ADP22-02	b. <b>High Speed Draft:</b> (10 / 12 / 15 cpi): 347 / 357 / 390 cps (Condensed, 17 / 20 cpi): 383 / 298 cps c. <b>Draft:</b> (10 / 12 / 15 cpi): 260 / 312 / 223 cps (Condensed, 17 / 20 cpi): 222 / 260 cps (Emphasized, 10 cpi): 130 cps d. <b>NLQ:</b> (10 / 12 / 15 / 17 / 20 cpi): 65 / 78 / 55 / 47 / 56 cps <b>Supplier Requirements:</b> <ol style="list-style-type: none"> <li>1. Certification of that the unit being offered must be brand new and not a discontinued.</li> <li>2. Delivery period of 90 days</li> <li>3. Current and valid Certificate of Manufacturer's compliance with ISO and/or CE certificate or its equivalent.</li> <li>4. Certificate that the supplier has the capability for corrective and preventive maintenance of the unit.</li> <li>5. Certification of After Sales Service that components/parts for the Backup storage solution shall be available at the authorized Philippine Service Center/s for a period of at least three (3) years after the warranty period</li> <li>6. Certification from the manufacturer or main authorized distributor in the Philippines that all proposed items will not reach its END-OF-LIFE (products) and END-OF-SUPPORT (services) in 3 years' time from the date of award of contract.</li> <li>7. Warranty Certificate: One (1) year for parts and one (1) year for service from the date of delivery; Provide an immediate RMA or backup unit at any time the HCI equipment is not working or under repair.</li> <li>8. List of authorized Customer support/service centers near Mandaluyong City. The list must indicate the complete and existing business address, telephone and fax number/s, email address, and complete name of the contact person</li> <li>9. Certification that the supplier will be responsible for notification, transportation to the site, delivery and testing on site and expenses for such will be on the account of the supplier.</li> </ol>	62	46,549.00	60 to 90 calendar days
	<b>All-In-One Desktop Computer</b> <b>Specifications:</b> <ol style="list-style-type: none"> <li>1. 23.8" FHD LED (1920x1080) Display</li> <li>2. Intel Core i3 12th Gen Processor</li> <li>3. 8GB DDR4</li> <li>4. 256GB SSD + 1TB HDD</li> <li>5. HD Graphics</li> <li>6. Integrated 1.0 MP HD high-sense webcam</li> <li>7. Windows 10 or 11</li> <li>8. Wired Keyboard and Mouse</li> <li>9. WiFi</li> <li>10. Bluetooth</li> <li>11. HDMI Port</li> <li>12. USB 3.0 Ports</li> <li>13. Gigabit LAN</li> </ol>			



ITEM NO.	DESCRIPTION	QTY	TOTAL	Delivered, Weeks/Months
	14. Speakers 15. Microsoft Office Home and Student 2019 16. USB Keyboard and Mouse 17. UPS 650VA 455 Watts  <b>Supplier Requirements:</b> 1. Certification of that the unit being offered must be brand new and not a discontinued. 2. Delivery period of 90 days 3. Current and valid Certificate of Manufacturer's compliance with ISO and/or CE certificate or its equivalent. 4. Certificate that the supplier has the capability for corrective and preventive maintenance of the unit. 5. Certification of After Sales Service that components/parts for the Backup storage solution shall be available at the authorized Philippine Service Center/s for a period of at least three (3) years after the warranty period 6. Certification from the manufacturer or main authorized distributor in the Philippines that all proposed items will not reach its END-OF-LIFE (products) and END-OF-SUPPORT (services) in 3 years' time from the date of award of contract. 7. Warranty Certificate: One (1) year for parts and one (1) year for service from the date of delivery; Provide an immediate RMA or backup unit at any time the HCI equipment is not working or under repair. 8. List of authorized Customer support/service centers near Mandaluyong City. The list must indicate the complete and existing business address, telephone and fax number/s, email address, and complete name of the contact person 9. Certification that the supplier will be responsible for notification, transportation to the site, delivery and testing on site and expenses for such will be on the account of the supplier.			

\_\_\_\_\_  
**CONFORMED BY:**  
**(Signature over printed name)**

\_\_\_\_\_  
**DATE:**





REPUBLIC OF THE PHILIPPINES  
Department of Health  
**NATIONAL CENTER FOR MENTAL HEALTH**  
Nueve de Febrero Street, Mandaluyong City, Philippines



**BIDS AND AWARDS COMMITTEE**

Telephone No. 531-9001 loc. 242

Telefax No. 5318318

E-mail: bacncmh@yahoo.com

Website: www.ncmh.gov.ph

**Section VI**  
**Schedule of Requirements**

***ITB No. 027-2022***

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

ITEM NO.	DESCRIPTION	QTY	TOTAL	Delivered, Weeks/Months
ICT22-01	<b>ICT Network Infrastructure on NCMH Mega Modular Hospital and NCMH Triage</b> <b>Scope of Works:</b> <ol style="list-style-type: none"><li>1. Deploy, commission, install wireless access points to designated locations.</li><li>2. Supplier must provide cabling (provide high-quality CAT6 cable) and civil works required to make the wireless access points operational.</li><li>3. Integrate the security policies of newly procured wireless access points to NCMH firewall.</li><li>4. Supplier must provide additional Fiber Optic backbone connection on following location:<ol style="list-style-type: none"><li>a. Modular Hospital 1 to Pavilion 22</li><li>b. Modular Hospital 3 to Pavilion 22</li><li>c. NCMH Triage to Pavilion 1</li></ol></li><li>5. Supplier must provide additional Fiber Optic backbone connection on following location:<ol style="list-style-type: none"><li>a. Modular Hospital 1 to Modular 2</li><li>b. Modular Hospital 3 to Modular 5</li></ol></li><li>6. Configure, deploy and commission procure network switches on following locations:<ol style="list-style-type: none"><li>a. 24 port switch<ul style="list-style-type: none"><li>• Modular Hospital 1</li><li>• Modular Hospital 2</li><li>• Modular Hospital 3</li><li>• Modular Hospital 5</li></ul></li><li>b. 16 port switch<ul style="list-style-type: none"><li>• NCMH Triage</li></ul></li></ol></li><li>7. Supplier shall install and deploy structured cabling on the following locations:<ol style="list-style-type: none"><li>a. Modular Hospital 3</li><li>b. Modular Hospital 4</li><li>c. Modular Hospital 5</li><li>d. Modular Hospital 6</li></ol></li><li>8. Supplier shall provide all the equipment, modules, devices and licenses needed in implementing, commissioning and deploying this project.</li></ol>	1	6,500,000.00	60 to 90 calendar days



ITEM NO.	DESCRIPTION	QTY	TOTAL	Delivered, Weeks/Months
	<p>9. Define and configure administrative and system security policies, practices and codes.</p> <p>10. Test and debug system.</p> <p>11. Prepare hardened system and turnover of administrative rights to NCMH.</p> <p>12. Other works and materials that may have been omitted here but are necessary to put the system in operation and to complete the works to commission and implement the system within the required period.</p> <p><b>Technical Specifications</b></p> <p>1. System Specifications (Wireless Controller)</p> <p>a. Simplified Deployment</p> <ul style="list-style-type: none"> <li>• Can support cloud-based management.</li> <li>• Supports customer self-service.</li> <li>• Supports guided workflow for network management.</li> <li>• Simplified RF optimization for high-performance RF design.</li> <li>• Automated network policy and updates.</li> <li>• Automatic connection to cloud management.</li> <li>• Can support simulated Radio Frequency planning and has the ability to swap these to live wireless access points.</li> <li>• Supports zero touch and auto-provisioning.</li> </ul> <p>b. Centralized Management</p> <ul style="list-style-type: none"> <li>• Supports role-based policies thru LDAP/Active Directory.</li> <li>• Supports Single-Sign on.</li> <li>• Provides Radio Frequency templates for wireless access points.</li> <li>• Centralized and Bird's eye view of all wireless local area network RF design.</li> <li>• Ability to bulk edit, updates, configuration, restore, audit, restore and backup of wireless access points including creation, scheduling, updating and editing of SSID's.</li> <li>• Supports multiple user profiles for each SSID.</li> <li>• Ability to monitor status of AP's and WLANs.</li> <li>• Supports WAP groups for segmenting SSIDs for different locations.</li> <li>• Client classification by location, OS type and MAC Addresses.</li> <li>• Supports QOS Policy and traffic shaping.</li> </ul> <p>c. Wireless Network Security and operations</p> <ul style="list-style-type: none"> <li>• Supports network security firewall from Layer 2 up to Layer 7.</li> </ul>			



ITEM NO.	DESCRIPTION	QTY	TOTAL	Delivered, Weeks/Months
	<ul style="list-style-type: none"> <li>• Supports IEEE PSK, DPSK, and 802.1x protocol.</li> <li>• Supports AI and Machine Learning-Driven network analytics and assurance.</li> <li>• Supports WIPS and WIDS for rogue wireless access point detection.</li> <li>• Connection between cloud-based wireless controller and wireless access points must be tunneled (CAPWAP), encrypted, and out-of-band.</li> <li>• When accessing cloud-based wireless controller, TLS protocol must be present.</li> <li>• Support Multi-factor authentication.</li> <li>• Supports rogue AP and rogue client monitoring.</li> <li>• Supports real time client behavioral analytics for better detection.</li> <li>• Supports datacenter high availability – includes geographical and cloud network redundancies.</li> </ul> <p>d. Features:</p> <ul style="list-style-type: none"> <li>• Supports graphical widgets (GUI)</li> <li>• Supports user analytics – includes client usages and history, live-logging, live troubleshooting tools, cloud health management, and reporting – includes historical and live connections.</li> <li>• Supports view for all WAP's – includes network policies, radiation pattern, connected clients and health.</li> <li>• Alarms and events lists for live connections.</li> <li>• Real-time troubleshooting with probe messages and stage filters</li> <li>• historical troubleshooting with automatic issue detection.</li> <li>• Supports load balancing amongst Wireless Access Points.</li> </ul> <p>2. Wireless Access Points</p> <p>a. Radio Specifications</p> <ul style="list-style-type: none"> <li>• Can support simultaneous device connections with built-in 8 spatial streams; Radio 4x4:4 in both 2.4GHz and 5GHz.</li> <li>• Supports Multi-user, multiple-input, multiple-output technology (MU-MIMO) and utilizes orthogonal frequency division multiple access (OFDMA) multiplexing technique.</li> <li>• Supports 1024-QAM multiplexing.</li> <li>• Supports maximal ratio combining (MRC) &amp; beam forming.</li> </ul>			



ITEM NO.	DESCRIPTION	QTY	TOTAL	Delivered, Weeks/Months
	<ul style="list-style-type: none"> <li>Data rate up to 500Mbps on 2.4GHz and 1.5Gbps on 5GHz.</li> <li>Supports 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac, 802.11ax standards</li> <li>Support bandwidth of: <ul style="list-style-type: none"> <li>802.11ax: 4 to 2400 Mbps</li> <li>802.11ac: 6.5 to 1732 Mbps</li> <li>802.11n: 6.5 to 600 Mbps</li> </ul> </li> <li>Supports at least 16 SSIDs per AP.</li> <li>Support at least 512 users per radio.</li> <li>Has antenna gain of less than or equal to 4.5dbi when using 2.4Ghz and less than or equal to 5dbi when using 5Ghz.</li> <li>Supports roaming and mobility.</li> <li>Supports Bluetooth Low Energy.</li> <li>Supports mesh self-healing.</li> </ul> <p>b. Radio Management</p> <ul style="list-style-type: none"> <li>Has the ability to change an AP's channel automatically within either the 2.4 or 5 GHz bands/channels when interference or contention conditions require.</li> <li>Has the ability to scan another channels to be able to detect congested and free ones. Also, to efficiently detect rogue WAPs.</li> <li>Has the ability to redistribute clients on different bands dynamically to balance associated clients so that AP's can provide better Wi-Fi service to clients with weaker signals.</li> <li>Has the ability to spread associated clients within adjacent WAPs.</li> <li>Has the ability to divide Wi-Fi signals into many time slots and make each clients to take turns to send and receive data from the network to improve efficiency. Also, it must have the ability to prioritized certain connections.</li> <li>Must support L2-L4 ACLs.</li> <li>Must have diagnostic tools for spectrum analysis and network traffic.</li> </ul> <p>c. Networking</p> <ul style="list-style-type: none"> <li>1 - 100/1000/2500 Mbps auto-negotiation RJ45 Ethernet port.</li> <li>1 - 10/100/1000 Mbps auto-negotiation RJ45 Ethernet port.</li> <li>Supports 802.3af (PoE) and 802.3at (PoE+).</li> <li>Must support rate limiting.</li> <li>Support VPN technologies such as L2TP, GRE and Soft GRE.</li> </ul> <p>d. Security</p> <ul style="list-style-type: none"> <li>Supports WPA, WPA2, WPA3 - Personal and enterprise.</li> </ul>			



ITEM NO.	DESCRIPTION	QTY	TOTAL	Delivered, Weeks/Months
	<ul style="list-style-type: none"> <li>• Supports AES and SAE encryption.</li> <li>• Can be integrated and supports L2 to L7 stateful firewall from cloud-based wireless controller.</li> <li>• Supports EAP-TLS, EAP-TTLS, EAP-MSCHAPv2, EAP-SIM.</li> <li>• Supports VLAN tagging/pooling and tunneling with IPsec VPN.</li> <li>• Real-time WIDS/WIPS with alerting and automatic rogue WAP containment.</li> </ul> <p>e. Wi-Fi Alliance Certifications</p> <ul style="list-style-type: none"> <li>• Wi-Fi CERTIFIED 6™</li> <li>• Wi-Fi CERTIFIED™ a, b, g, n, ac</li> <li>• WPA™ - Enterprise, Personal</li> <li>• WPA2™ - Enterprise, Personal</li> <li>• WPA3™ - Enterprise, Personal</li> </ul> <p>f. Perpetual license is preferred if applicable but if not, it must include 5-year license.</p> <p>g. Must be operational even if the cloud management license is no longer active.</p> <p>h. POE injectors must be included. See the Expected Deliveries Section for numbers.</p> <p>3. Network Switches (24-port switch)</p> <p>a. Hardware Specification</p> <ul style="list-style-type: none"> <li>• Must have 24 x 10/100/1000 POE+ Ethernet ports.</li> <li>• Must have at least 10/100/1000 4 SFP based network module.</li> <li>• Must have redundant uplinks.</li> <li>• Must support POE with a budget of 195W, 30W per port.</li> </ul> <p>b. Performance and Scalability</p> <ul style="list-style-type: none"> <li>• Must have 4 GB of Flash Memory.</li> <li>• Must have 4 GB of DRAM.</li> <li>• Must have throughput of at least 95 Mpps.</li> <li>• Must have forwarding performance (64-byte packet size) of at least 128 Gbps.</li> <li>• Support up to 1023 active VLANs.</li> <li>• Must support up to 4096 VLAN.</li> </ul> <p>c. Feature Specification</p> <ul style="list-style-type: none"> <li>• Must have Cryptographically signed images provide assurance that the firmware, BIOS, and other software are authentic and unmodified.</li> <li>• Must have automatic configuration of QoS that allows switch to manage QoS policies based on traffic types resulting in zero-touch traffic engineering.</li> <li>• The propose switch must support hibernation mode that puts the switch in ultra-low power mode during periods of non-operation.</li> </ul>			



ITEM NO.	DESCRIPTION	QTY	TOTAL	Delivered, Weeks/Months
	<p>d. Must support fundamental switch features such as: Layer 2 and must have the following Standards:</p> <ul style="list-style-type: none"> <li>• IEEE 802.1D Spanning Tree Protocol</li> <li>• IEEE 802.1P CoS Prioritization</li> <li>• IEEE 802.1Q VLAN</li> <li>• IEEE 802.1S</li> <li>• IEEE 802.1W</li> <li>• IEEE 802.1X</li> <li>• IEEE 802.1AB (LLDP)</li> <li>• IEEE 802.3ad</li> </ul> <p>e. Must include Maintenance Support 8x5xNBD (Next Business Day)</p> <p>f. Supports modern operating system for the enterprise with support for model-driven programmability features.</p> <p>4. Network Switches (16-port switch)</p> <p>a. Hardware Specifications</p> <ul style="list-style-type: none"> <li>• Must have 16 x 10/100/1000 POE+ Ethernet ports.</li> <li>• Must have at least 10/100/1000 2 SFP based network module.</li> <li>• Must have redundant uplinks.</li> <li>• Must support POE with a budget of 120W, 30W per port.</li> </ul> <p>b. Performance and Scalability</p> <ul style="list-style-type: none"> <li>• Must have 256 MB of Flash Memory.</li> <li>• Must have 512 MB of RAM.</li> <li>• Must have throughput of at least 26.0 Mpps.</li> <li>• Must have forwarding performance (64-byte packet size) of at least 36.0 Gbps.</li> <li>• Support up 255 active VLANs.</li> </ul> <p>c. L2 switching</p> <ul style="list-style-type: none"> <li>• Spanning Tree Protocol (STP).</li> <li>• Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP).</li> <li>• Voice VLAN is automatically assigned to an assigned to a voice-specific VLAN and treated with appropriate levels of QoS.</li> </ul> <p>d. L3 switching</p> <ul style="list-style-type: none"> <li>• Support IPv4 and IPv6 routing.</li> <li>• Support for CIDR.</li> </ul> <p>e. Security</p> <ul style="list-style-type: none"> <li>• Run-time defenses (Executable Space Protection, Address Space</li> <li>• Layout Randomization, Built-In Object Size Checking)</li> <li>• Supports MAC Address limiting</li> <li>• Supports encryption managing sensitive data such as passwords and keys according to user level and access method.</li> </ul>			



ITEM NO.	DESCRIPTION	QTY	TOTAL	Delivered, Weeks/Months
	<ul style="list-style-type: none"> <li>Ensures that the switch will process the management or protocol traffic regardless the load.</li> </ul> <p>5. IP Phones (End- Users/ Entry Level Phones)</p> <ol style="list-style-type: none"> <li>Must have at least one programmable line key.</li> <li>With lit and colored display.</li> <li>Must have indicators for the audio path keys, select key, line keys, and message waiting.</li> <li>Must have volume control toggle to adjust the volume of the handset, speakerphone, and ringer.</li> <li>Must have full-duplex speakerphone.</li> <li>Must support H.323 and SIP for signaling protocol.</li> <li>Audio codec must support G.711a, G.711μ, G.722, G.729a.</li> <li>Must have two port 10/100/1000 BASE-T Ethernet connection.</li> <li>Must support telephony features such as display of caller ID, auto-answer, call forwarding, call pickup, call waiting, call transfer, call back, call history, call park, call timer, conference call, music on hold, redial, message-waiting indicator, direct transfer, hold/resume, mute, time and date display, speed dial and shared line.</li> <li>Must include all licenses needed.</li> <li>Functions and Features. <ul style="list-style-type: none"> <li>Call Forwarding</li> <li>Last Number Redial</li> <li>Call Waiting</li> <li>Call Pick-Up</li> <li>Call-back features</li> <li>Call on hold</li> <li>Caller number display on screen</li> <li>Do Not Disturb</li> <li>Multiple ring tones</li> <li>Voice and video conferencing</li> <li>Automatic Call Distribution</li> <li>Dial by Name, Unified Directory access</li> <li>Unified Call Detail records</li> <li>Caller ID feature</li> <li>Transfer</li> <li>Point-to point video calling</li> <li>Desktop sharing via softphones</li> <li>Capable of handling up to 800 users</li> <li>Personalized Automated Attendant</li> <li>Welcome Greetings</li> <li>Call History</li> <li>Voicemail</li> <li>Directory</li> <li>Audio Conference</li> </ul> </li> </ol>			



ITEM NO.	DESCRIPTION	QTY	TOTAL	Delivered, Weeks/Months																																																																																		
	<ul style="list-style-type: none"> <li>• Hold</li> <li>• Paging Integration</li> <li>• Perpetual licenses if applicable</li> <li>• Centralized licensing application</li> <li>• Each IP Phone must provide high-quality speakerphone technology including easy to use speaker on / off, microphone mute.</li> <li>• Must have volume control.</li> <li>• Can support Dual power: PoE with Standard power adaptor</li> </ul>																																																																																					
	<div>6. IP Phone Locations</div> <table> <tr> <th>Location/Building</th> <th>Office</th> <th>Number of Phones</th> <th>Distance from Data Cabinet (m)</th> </tr> <tr> <td rowspan="3">Modular Hospital 1</td> <td>Nurse Station</td> <td>1</td> <td>NA</td> </tr> <tr> <td>Lobby</td> <td>1</td> <td>NA</td> </tr> <tr> <td>Nurse Supervisor</td> <td>1</td> <td>NA</td> </tr> <tr> <td rowspan="2">Modular Hospital 2</td> <td>Nurse Station</td> <td>1</td> <td>NA</td> </tr> <tr> <td>Lobby</td> <td>1</td> <td>NA</td> </tr> <tr> <td rowspan="6">Modular Hospital 3</td> <td>Office I</td> <td>1</td> <td>50</td> </tr> <tr> <td>Office II</td> <td>1</td> <td>50</td> </tr> <tr> <td>Office III</td> <td>1</td> <td>50</td> </tr> <tr> <td>Office IV</td> <td>1</td> <td>50</td> </tr> <tr> <td>Nurse Station</td> <td>1</td> <td>15</td> </tr> <tr> <td>Lobby</td> <td>1</td> <td>25</td> </tr> <tr> <td rowspan="2">Modular Hospital 4</td> <td>Nurse Station</td> <td>1</td> <td>30</td> </tr> <tr> <td>Lobby</td> <td>1</td> <td>50</td> </tr> <tr> <td rowspan="2">Modular Hospital 5</td> <td>Nurse Supervisor</td> <td>1</td> <td>30</td> </tr> <tr> <td>Lobby</td> <td>1</td> <td>30</td> </tr> <tr> <td>Modular Hospital 6</td> <td>Lobby</td> <td>1</td> <td>50</td> </tr> <tr> <td>Modular Hospital 7</td> <td>Nurse Station</td> <td>1</td> <td>15</td> </tr> <tr> <td></td> <td>Lobby</td> <td>1</td> <td>NA</td> </tr> <tr> <td>Modular hospital 8</td> <td>Nurse Station</td> <td>1</td> <td>20</td> </tr> <tr> <td></td> <td>Lobby</td> <td>1</td> <td>NA</td> </tr> <tr> <td>NCMH Triage</td> <td>Triage Staff</td> <td>1</td> <td>10</td> </tr> <tr> <td></td> <td><b>TOTAL</b></td> <td>22</td> <td>485</td> </tr> </table>	Location/Building	Office	Number of Phones	Distance from Data Cabinet (m)	Modular Hospital 1	Nurse Station	1	NA	Lobby	1	NA	Nurse Supervisor	1	NA	Modular Hospital 2	Nurse Station	1	NA	Lobby	1	NA	Modular Hospital 3	Office I	1	50	Office II	1	50	Office III	1	50	Office IV	1	50	Nurse Station	1	15	Lobby	1	25	Modular Hospital 4	Nurse Station	1	30	Lobby	1	50	Modular Hospital 5	Nurse Supervisor	1	30	Lobby	1	30	Modular Hospital 6	Lobby	1	50	Modular Hospital 7	Nurse Station	1	15		Lobby	1	NA	Modular hospital 8	Nurse Station	1	20		Lobby	1	NA	NCMH Triage	Triage Staff	1	10		<b>TOTAL</b>	22	485			
Location/Building	Office	Number of Phones	Distance from Data Cabinet (m)																																																																																			
Modular Hospital 1	Nurse Station	1	NA																																																																																			
	Lobby	1	NA																																																																																			
	Nurse Supervisor	1	NA																																																																																			
Modular Hospital 2	Nurse Station	1	NA																																																																																			
	Lobby	1	NA																																																																																			
Modular Hospital 3	Office I	1	50																																																																																			
	Office II	1	50																																																																																			
	Office III	1	50																																																																																			
	Office IV	1	50																																																																																			
	Nurse Station	1	15																																																																																			
	Lobby	1	25																																																																																			
Modular Hospital 4	Nurse Station	1	30																																																																																			
	Lobby	1	50																																																																																			
Modular Hospital 5	Nurse Supervisor	1	30																																																																																			
	Lobby	1	30																																																																																			
Modular Hospital 6	Lobby	1	50																																																																																			
Modular Hospital 7	Nurse Station	1	15																																																																																			
	Lobby	1	NA																																																																																			
Modular hospital 8	Nurse Station	1	20																																																																																			
	Lobby	1	NA																																																																																			
NCMH Triage	Triage Staff	1	10																																																																																			
	<b>TOTAL</b>	22	485																																																																																			
	<div>7. Wireless Access Point Locations</div>																																																																																					



ITEM NO.	DESCRIPTION			QTY	TOTAL	Delivered, Weeks/Months
	Location/Building	Office	Distance from Data Cabinet (m)			
	Modular Hospital 1	Nurse Station	20			
		Front side Lobby	50			
		End side of the lobby	30			
	Modular Hospital 2	Nurse Station	20			
		Front side Lobby	50			
		End side of the lobby	30			
	Modular Hospital 3	Nurse Station	20			
		Front side Lobby	50			
		End side of the lobby	20			
	Modular Hospital 4	Nurse Station	30			
		Front side Lobby	70			
		End side of the lobby	50			
	Modular Hospital 5	Nurse Station	20			
		Front side Lobby	50			
		End side of the lobby	20			
	Modular hospital 6	Nurse Station	30			
		Front side Lobby	70			
		End side of the lobby	50			
	NCMH Triage	Office Area	15			
		TOTAL	680			
8. Fiber Optic Connections						
	Source Location	Destination Location	Distance	Type of fiber		
	Modular Hospital 1	Pavilion 22	200m	6-core OM3 multimode fiber		
	Modular Hospital 3	Pavilion 22	250m	6-core OM3 multimode fiber		
9. CAT6 Backbone Connection						
	Source Location	Destination Location	Distance runs)			



ITEM NO.	DESCRIPTION			QTY	TOTAL	Delivered, Weeks/Months
	Modular Hospital 1	Modular Hospital 2	30m			
	Modular Hospital 3	Modular Hospital 5	45m			
	10. Information Outlet Point Locations					
	Location/Building	Office	Number of ports	Distance from the data cabinet (in meters)		
	Modular Hospital 3	Nurse Station	2	15		
		Office Area I	2	50		
		Office Area II	2	50		
		Office Area III	2	50		
		Office Area IV	2	50		
		Nurse Station	2	30		
		Nurse station	2	15		
	Modular Hospital 4	Nurse Supervisor	2	30		
	Modular Hospital 5	Nurse Station	2	30		
		<b>TOTAL</b>	18	320		
IV. Expected Deliverables						
The expected deliverables (outputs) of this project are the following:						
<ol style="list-style-type: none"> <li>1. An Inception Report describing the activities, methodology, milestones, time table and resources to implement this project.</li> <li>2. 21 units of wireless access points that are: <ol style="list-style-type: none"> <li>a. Connected to cloud-based wireless controller.</li> <li>b. Has perpetual/5-year license subscription.</li> <li>c. Fully commissioned, deployed, configured and operational on designated locations.</li> </ol> </li> <li>3. Configured, commissioned and tested 20 IP Phones.</li> <li>4. Tested and functional backbone connections on following locations: <ol style="list-style-type: none"> <li>a. Fiber Optic Connectivity <ul style="list-style-type: none"> <li>• Hospital 1 to Pavilion 22</li> <li>• Hospital 3 to Pavilion 22</li> <li>• NCMH triage to Pavilion 1</li> </ul> </li> </ol> </li> </ol>						