

REPUBLIC OF THE PHILIPPINES Department of Health

NATIONAL CENTER FOR MENTAL HEALTH

Nueve de Febrero Street, Mandaluyong City, Philippines



BIDS AND AWARDS COMMITTEE

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SECTION VII Technical Specifications

PUBLIC BIDDING FOR THE SUPPLY, DELIVERY, CONFIGURATION,
DEPLOYMENT, AND COMMISSIONING OF THE NATIONAL CENTER FOR
MENTAL HEALTH (NCMH) STRUCTURE CABLING FOR VARIOUS
INFRASTRUCTURE AND REDUNDANT CORE NETWORK ACTIVE COMPONENTS,
ACCESS SWITCHES, AND ENTERPRISE WIRELESS ACCESS POINTS CY 2024
IB No. E-015-2024-PB

INSTRUCTION: Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.1(a) (ii) and/or GCC Clause 2.1(a)(ii).

Item	Specification	Statement of Compliance	Supporting Documents for the Statement of Compliance (if applicable)
	SCOPE OF WORKS		
1	A. General Works 1. Delivery, configure, deploy, and commission to procured NCMH core network active components.	е	
	2. The bidder must configure the procured network acti components based on the configuration provided by the NCMH IHOMP/IT Unit and migrate all the configurations from the existing network components the newly procured network components.	e e	
	3. During the deployment and configuration, the suppli must ensure that the activity will only have minimal no business disruptions.		
	Configure and update the existing core switch that we be used to have a High-Availability (HA) configuration.		



5. Deploy, de active comp	iver, commission, and configure networ onents to the following locations:	k	
Network Compone			
Core switch	IT – Server Room		
Distribution S	witch OSM Building		
	NCMH Wellness Bldg.		
	Malasakit		
	Philhealth 1		
	Philhealth 2		
	HIMS – Admitting		
	HIMS – OPS		
	Billing		
	Collecting		
	Pharmacy		
	OPS 1		
	OPS 2		
	OPS 3		
	IT Room		
	Pavilion 1 Ward 1		
	Pavilion 1 Ward 2&3		
	Pavilion 1 Ward 4&5		
Access Switch	Pavilion 1 Ward 6&7		
	Pavilion 1 Ward 8		
	Pavilion 3		
	Pavilion 4		
	PETRO		
	PHU		
	HRMO 1st flr.		
	HRMO 2 nd flr I		
	HRMO 2 nd flr II		
	OSM Bldg		
	Laundry		
	Wellness 1 st flr.		
	Research Bldg.		
	WCPU		
	Multipurpose Bldg 1st floor		
	Multipurpose Bldg 2 nd floor		



Location	Distance from the box
Pavilion 1 Ward 4 & 5	50m
Pavilion 1 Ward 6 & 7	50m
Pavilion 1 Ward 8	50m
Pavilion 3 Ward 1	50m
Pavilion 3 Ward 2	50m
Pavilion 3 Ward 3	50m
Pavilion 4 Ward 1	90m
Pavilion 4 Ward 2	90m
Pavilion 4 Ward 3	90m
Pavilion 4 Ward 4	10m
Pavilion 8 Ward 1 & 2	60m
Pavilion 12 Ward 1	20m
Pavilion 12 Ward 2	60m
Pavilion 15 Ward 1	20m
Digihub Office I	50m
Digihub Office II	50m
Digihub Office III	50m
Petro Conference	50m
Petro Office Area I	30m
Petro Office Area II	50m
PHU Building [50m
PHU Building II	50m
PHU Building III	50m
HRMO I	50m
HRMO II	50m
HRMO III	50m
HRMO IV	70m
HRMO V	70m
OSM I	40m
OSM II	40m
OSM III	30m
R&D I	40m
R&D II	40m
R&D III	30m
Wellness I	50m
Wellness II	50m
Wellness III	60m
Multipurpose I	50m
Multipurpose II	50m
Multipurpose III	60m



7.	Deploy, deliver, commission, and configure IP Phones
	to the following locations:

Location	Number of units	
PHU	7	
WCPU	2	
HRMO	12	
Wellness Bldg.	7	
OSM Bldg.	4	
Research Bldg.	4	
Laundry Bldg.	2	
Multipurpose Building	4	

8. Fiber Optic Backbone

Source Location	Destination Location	Distance	Type of fiber
R&D 2nd Flr. (OSM)	NCMH IT Office	400m	6-core Single- mode fiber
Laundry Bldg.	Pavilion 7	250m	6-core OM3 Multi-mode fiber
ERCI	R&D 2nd Flr. (OSM)	300m	6-core OM3 Multi-mode fiber
Multipurpos e Bldg 1st flr.	NCMH IT Office	150m	6-core OM3 Multi-mode fiber

9. CAT6E Backbone

Source Location	Destination Location	Distance	No. of Runs
R&D 2nd Flr. (OSM)	HRMO 2nd Flr.	80m	2
R&D 2nd Flr. (OSM)	R&D 1st Flr.	80m	2
HRMO 2nd Flr.	HRMO 1st Flr.	50m	2
Multipurpose Bldg 2 nd flr.	Multipurpose Bldg 1st flr.	50m	2



10. CAT6E 1	Information Outlet	ts	
Area	No. of IO Outlets	Locations	
HRMO 1st Flr.	46	See the attached floor plan	
HRMO 2nd Flr.	22	See the attached floor plan	
R&D 1st Flr.	22	See the attached floor	
R&D 2nd Flr. (OSM)	20	See the attached floor	
PHU	20	See the attached floor plan	
modules, The bidd their pro	or devices that and the desired of the consult the con	e all components, cables, re necessary for the project. he system administrator for before doing any major	
	and configure a policies, practices,	dministrative and system and codes.	
13. Prepare h		nd turnover of administrative	
14. Test an compone	_	deployed network active	
	dder must protation of the project		
conceptu to attain completion	al design, quantity n functionality,	or supplemental to the y, and/or deemed necessary integrity, security, and must be shouldered by the ost.	
here but and to implemen	are necessary to percentage and complete the want the system with	that may have been omitted out the system in operation orks to commission and in the required period.	
professio engineeri i. Curi a ce	nal full course training technology. riculum-based and partified training co	ufacturer-certified network ning on the existing network manufacturer training from enter for three (3) NCMH s on the following but not	



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TECHNICAL SPECIFICATIONS	
The specifications of the proposed network core active	
components will be the following:	
Core Network Switch	
1. Chassis Requirements	
i. The switch must have seven (7) total slots	
with five (5) available for line cards and	
two (2) for supervisor engine slots.	
ii, The switch must be able to support	
redundant supervisor engine slots.	
iii. Has a maximum of eight (8) power supply	
bays.	
iv. It has the capability to support a total of at	
least two-hundred forty (240) ports.	
v. It has one (1) fan-tray bays.	
ti The switch most annuite annualization	
vi. The switch must provide approximately	
4300W POE per slot and must be	
supporting integrated POE.	
2. Supervisor Engine Requirements	
i. Must be capable to have virtual stacking on	
NCMH existing core switch.	
ii. Must include components for Virtual	
Stacking; 2 links for 100 Gbps.	
iii. Must be ready for next-generation	
technologies that are programmable, have	
micro-engine capabilities, and template-	
based and Quality-Of-Service entries.	
iv. Has Intel 2.4 GHZ x86 processor with a	
maximum of 960 GB of SATA SSD	
v. It can support 2 non-blocking 25 Gigabit	
Ethernet uplinks for the supervisor engine.	
vi. Has the capability to support 2 non-	
1 7 11	
blocking 40 Gigabit Ethernet uplinks	
(QSFP) and up to eight (8) 10 Gigabit	
Ethernet (SFP+) for the supervisor engine.	
vii. Performance and Scalability:	
a. Has a centralized wired capacity of	
up to 9.6 Tbps	
b. Support at least 240 GBPS per line	
card slot.	
c. Can store at least 60,000 MAC	
addresses.	
d. Can store at least 250,000 IPV4 and	
IPV6 routes.	
e. Has the capability to store 4096	
VLANs	
f. Has the capacity to route up to 1000	
SVIs.	



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g. Has a jumbo frame of at least 9200 bytes.		
h. Can support multicast routes of at		
least 32,000 on Layer 2 and 3.		
i. Can have at least 16,000 QOS		
entries.		
j. Can have at least 16,000 Security		
ACL hardware entries.		
k. At least 16 GB DRAM.		
l. At least 10 GB Flash Memory.		
m. At least 420GB SSD capacity.		
n. At least 3 Bpps forwarding rate for		
IPV4 and IPV6. o. At least 100MB for packet buffer.		
p. Has the capability to support high-		
availability deployments.		
q. Has the capability to perform		
different advanced switch		
capabilities such as BGP, HSRP,		
IS-IS, BSR, MSDP, IP SLA, and		
OSPF.		
r. Must be utilizing existing		
networking protocols.		
viii. Security		
a. Supports encryption for MACsec		
security that will provide secure		
link connection.		
b. Provides protection against man-in- the-middle compromise of software		
and firmware.		
ix. Resiliency and high availability		
a. Has the ability to configure		
EtherChannel on multiple/different		
members of the stack to provide		
high resiliency.		
b. Supports IEEE 802.1s Multiple		
Spanning Tree Protocol (MSTP)		
c. Can be configured using existing		
network protocols		
x. Must include perpetual base licenses that can provide the indicated switching		
features.		
xi. Must be fully utilizing the existing		
switching protocols that are configured in		
NCMH and can be stack configured with		
the existing core switch.		
3. Line Module Requirements		
i. Must support gigabit/multigigabit ethernet,		
SFP, and SFP+		
	*	



Y		
ii.	Must have ports for SFP and SFP+ a. Supports up to 24 ports of 10GE	
	SFP+	
	b. IEEE 802.1AE (MACsec-256)	
	capability in hardware	
	c. Layer 2 to Layer 4 Jumbo Frame support (up to 9216 bytes)	
	d. SFP+ and SFP can be used	
	simultaneously on the same line card	
	without any restrictions	
iii.	Must have 48 ports of Gigabit/Multigigabit	
	Ethernet;	
	a. 24 - 10/100/1000 ports	
	b. 24 - Multigigabit 100/1000 Mbps	
	2.5/5 Gbps 10GBASE-T ports	
	c. Nonblock of up to 1000 Mbps	
	d. Layer 2 to Layer 4 Jumbo Frame	
	support (up to 9216 bytes)	
	e. Capable of up to 60W on all ports in	
	the line card	
	tion Switch	
Li Li	dware Specification	
i.	Must have 24 x 10/100/1000 Ethernet ports POE+	
ii.	Must have at least 4 SFP-based network	
II.	modules	
iii.	Must include perpetual licenses that will be	
	used for advanced switching capabilities,	
	network segmentation, and security.	
	,	
2. Per	formance and Scalability	
i.	Switching capacity of at least 120 Gbps	
ii.	Forwarding rate of at least 90 Mpps	
lii.	Can support up to 80 Gbps of stacking	
****	bandwidth	
iv.	Supports IPV6 routing of at least 1500	
111	Supports II vo routing of at least 1200	
V.	Supports SVIs of at least 512	
vi.	Supports MAC Address entries of at least	
	16,000	
vii.	Supports IPv4 routing entries of at least	
	3,000	
viii,	Supports multicast routing scale of at least	
	1,000	
ix.	Must have at least 2GB of DRAM	
х,	Must have at least 4GB of Flash	
xi.	Must support at least 4,000 VLAN IDs	
Al.	THESE SUPPORT OF THESE TROOP YEARS IDS	



xii.	Must support jumbo frame 9198 bytes		
xiii.	Must be fully utilizing the existing switching		
	protocols that are configured in NCMH.		
J	ature Specification		
j.	Must have Cryptographically signed images		
	provide assurance that the firmware, BIOS,		
	and other software are authentic and		
	unmodified		
ii,	Must have 802.1p Class of Service (CoS)		
	and Differentiated Services Code Point		
	(DSCP) field classification, Shaped Round		
	Robin (SRR) scheduling, Committed		
	Information Rate (CIR), and eight egress		
	queues per port		
iii.	Must support IP unicast routing protocols		
	including static, Routing Information		
	Protocol Version 1, RIPv2, and Open	1	
	Shortest Path First (OSPF), Routed Access		
iv.	Supports encryption and MACsec of at least		
	128-bits		
V.	Must be fully utilizing the existing switching		
'	protocols that are configured in NCMH.		
Access S			
Access 5	WILLI	1	
1. Ha	ardware Specification		
i.	Must have 24 x 10/100/1000 POE+ Ethernet		
Α.	ports		
ii.	Must have at least 10/100/1000 4 SFP-based		
11.	network module		
	Hetwork Hodule		
iii.	Must have redundant uplinks		
iv.	Must support POE with a budget of 195W,		
	30W per port		
2. Pe	rformance and Scalability		
i.	Must have 256 MB of Flash Memory		
ii.	Must have 512 MB of DRAM		
iii.	Must have a throughput of at least 40 Mpps		
iv.	Must have forwarding performance (64-byte		
	packet size) of at least 28 Gbps		
	Must have quitching performance of at least		
v.	Must have switching performance of at least		
	56 Gbps		
vi.	Support up to 1023 active VLANs		
	5 appoint up to 1025 active 1211.		
vii.	Must support up to 4096 VLAN		
3. Fe	ature Specification		



i.	Device management support with over-the- air access via Bluetooth, Simple Network Management Protocol (SNMP), RJ-45 console access	
II.	Must have an automatic attempt to reactivate a link that is disabled because of a network error	
iii.	Must be fully utilizing the existing switching protocols that are configured in NCMH.	
Ti Ii	Must support fundamental switch features and nust have the following Standards: IEEE 802.1D Spanning Tree Protocol	
ii.	IEEE 802.1P CoS Prioritization	
iii.	IEEE 802.1Q VLAN	
iv.	IEEE 802.1S	
v.	IEEE 802.1W	
vi.	IEEE 802.1X	
vii.	IEEE 802.1AB (LLDP)	
viii.	IEEE 802.3ad	
Ph. Oli	Must include Maintenance Support 8x5xNBD Next Business Day)	
e	upports modern operating systems for the nterprise with support for model-driven rogrammability features	
	s Access Point Ladio Specifications Can support simultaneous device connections; Radio 2x2:2 in both 2.4GHz and 5GHz.	
ii.	2.4 GHz & 5 GHz dual-band WIDS/WIPS, spectrum analysis, & location analytics radio.	
UJ.	2.4 GHz Bluetooth Low Energy (BLE) radio with Beacon and BLE scanning support.	
iv.	Supports Multi-user, multiple-input, multiple-output technology (MU-MIMO) and utilizes Downlink Orthogonal Frequency Division Multiple Access (DL-OFDMA) multiplexing technique.	



Supports 1024-OAM multiplexing		
Supports maximal ratio combining (MRC) & beam forming		
Data rate up to 286 Mbps on 2.4GHz and 1.2 Gbps on 5GHz		
Supports 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac, 802.11ax standards		
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.		
Supports roaming and mobility; PMK, OKC, & 802.11r for fast Layer 2 roaming; Distributed or centralized layer 3 roaming.		
Supports Bluetooth Low Energy		,
Supports mesh self-healing		
tadio Management		
Must be seamlessly integrated with the existing cloud-based wireless controller of NCMH.		
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.		
Has the ability to scan other channels to be able to detect congested and free ones. Also, to efficiently detect rogue WAPs.		
Has the ability to redistribute clients on different bands dynamically to balance associated clients so that APs can provide better Wi-Fi service to clients with weaker signals.		
Has the ability to spread associated clients within adjacent WAPs.		
Has the ability to divide Wi-Fi signals into many time slots and make each client take turns sending and receiving data from the network to improve efficiency. Also, it must have the ability to prioritize certain connections.		
	Data rate up to 286 Mbps on 2.4GHz and 1.2 Gbps on 5GHz Supports 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac, 802.11ax standards 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. Supports roaming and mobility; PMK, OKC, & 802.11r for fast Layer 2 roaming; Distributed or centralized layer 3 roaming. Supports Bluetooth Low Energy. Supports mesh self-healing Radio Management Must be seamlessly integrated with the existing cloud-based wireless controller of NCMH. 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. Has the ability to scan other channels to be able to detect congested and free ones. Also, to efficiently detect rogue WAPs. Has the ability to redistribute clients on different bands dynamically to balance associated clients so that APs can provide better Wi-Fi service to clients with weaker signals. Has the ability to spread associated clients within adjacent WAPs. Has the ability to divide Wi-Fi signals into many time slots and make each client take turns sending and receiving data from the network to improve efficiency. Also, it must have the ability to prioritize certain	Supports maximal ratio combining (MRC) & beam forming Data rate up to 286 Mbps on 2.4GHz and 1.2 Gbps on 5GHz Supports 802.11a, 802.11b, 802.11g, 802.11n, 802.11a,



	N. 4. 1. 1. 4. 4. 1. C. 4. 1.	! //
vii.	Must have diagnostic tools for spectrum analysis and network traffic.	
viii.	 Analytics: Embedded location analytics reporting and device tracking Global L7 traffic analytics reporting per network, per device, & per application 	
3. i.	Networking 1x 10/100/1000 BASE-T Ethernet (RJ45)	
ii.	Supports 802.3af (PoE): 37-57 V	
iii.	Must support rate limiting	
4. i.	Security Supports WPA, WPA2, WPA3 – Personal and Enterprise	
ii.	Supports AES and SAE encryption.	
III.	Can be integrated and supports L2 to L7 stateful firewall from cloud-based wireless controller	
iv.	Flexible guest access with device isolation	
v.	Enterprise Mobility Management (EMM) & Mobile Device Management (MDM) integration	
vi.	Supports EAP-TLS, EAP-TTLS, EAP-MSCHAPv2, EAP-SIM	
vii,	Supports VLAN tagging/pooling and tunneling with IPsec VPN	
viii.	Real-time WIDS/WIPS with alerting and automatic rogue WAP containment	
5, i. ii. iii. iv. v.	Wi-Fi Alliance Certifications Wi-Fi CERTIFIED 6 TM Wi-Fi CERTIFIED TM a, b, g, n, ac WPA TM – Enterprise, Personal WPA2 TM – Enterprise, Personal WPA3 TM – Enterprise, Personal	
6.	Perpetual license is preferred if applicable but if not, it must include a 5-year license; With a 3-year warranty and advanced replacement included.	



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7.	Must be operational even if the cloud	
	management license is no longer active.	
8.	Must be managed on the existing cloud	
	administration platform.	
	administration platform.	
Fiber (Optic Cable Fusion Splicer	
1.	LCD-display	
2.	Core or cladding alignment	
3.	Double heaters, 30 sec. tube-heat time	
4.	3 magnification modes max. 360	
4.	magnifications	
	magnifications	
5.	4 display modes, fiber core visible	
6.	8 sec. splice time	
0.	o see. Spilee time	
7.	Lithium battery	
· ·	Difficult battory	
8.	Splicing method: auto, manual	
0.	opnonig memod. auto, mandar	
9.	Store 8000 groups of splice results	
7.	Store 6000 groups of spinee results	
10.	USB interface	
101	OSB Interface	
11.	Specifications:	
	i. Applicable fibers: at least Single Mode	
	and Multi-Mode	
i	i. Cladding diameter: 100 to 150mm	
ii		
ix	=	
	Splicing mode: Auto & Manual	
v		
· ·	0.01dB(MM), 0.04dB(DS),	
	0.04dB(NZDS)	
vi	,	
vii		
VIII		
	(operation temperature), 0~95%RH	
	(humidity), 0~5000m (altitude)	
Entry	Level IP Phones	
1.	Must have at least one programmable line key.	
	r	
2.	With a lit and colored display.	
3.	Must have indicators for the audio path keys,	
	select keys, line keys, and message waiting.	



4.	Must have a volume control toggle to adjust the volume of the handset, speakerphone, and ringer.	
5.	Must have a full-duplex speakerphone.	
6.	Must support H.323 and/or SIP for signaling protocol.	
7.	Audio codec must support G.711a, G.711μ, G.722, G.729a,	
8.	Must have two ports 10/100/1000 BASE-T Ethernet connection	
	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	
10.	Must include all licenses needed	
11. i. ii. iii. iii. iv. v. vi. vii. vi	Last Number Redial Call Waiting Call Pick-Up Call-back features Call on hold Caller number displayed on the screen Do Not Disturb Multiple ringtones Voice and video conferencing Automatic Call Distribution Dial by Name, Unified Directory Access Unified Call Detail records Caller ID feature Transfer Point-to-point video calling Desktop sharing via softphones Capable of handling up to 800 users Personalized Automated Attendant Welcome Greetings Call History Voicemail Directory Audio Conference	



	xxvii. Perpetual licenses if applicable xxviii. Centralized licensing application	
	xxix. Each IP Phone must provide high-quality speakerphone technology including an easy-to-use speaker on / off, and microphone mute. xxx. Must have volume control. 12. Can support Dual power: PoE with Standard power adaptor	
EXPEC	CTED DELIVERABLES	
	1. 1 unit of Core Switch including licenses	
	2. 2 Units of Distribution Switch including licenses	
	29 units of Access Switches including licenses	
	4. 43 units of Wireless Access Points including a 5- year license	
	5. 18 units of SFP+ transceivers (18 SR)	
	6. 1 unit of Fiber Optic Cable Fusion Splicer	
	7. 38 units of IP Phones	
	8. 8 units 2ft by 4ft Data Cabinet	
	9. Structured and Backbone cabling (refer to scope of work)	
ROLES	EMENTATIONS ARRANGEMENTS INCLUDING S AND RESPONSIBILITIES the Project Duration, the NCMH shall:	
	Provide a technical working committee to supervise and monitor the project.	
2.	Provide a technical contact person	
	Facilitate access to information, documents, facilities, and other necessary things needed by the contractor to perform services.	
	Assist in coordinating with and issue instructions as may be necessary or appropriate to other government agencies for the prompt and effective implementation of the services.	
5.	Approve the proposed working schedule of the supplier.	
1	Provide temporary ID to all personnel involved in the installation	
	Grant authorized representative access to premises as well as equipment and all facilities located therein to perform the supplier's obligations.	



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8.	Make prompt review and revision, if necessary, which shall be not later than ten (10) working days from receipt of the work produced.	
9.	Pay the contractor upon presentation of requisite documents, the amount due him upon receipt of claims supported with documents subject to acceptance by the NCMH.	
Within	the Project duration the winning	
	ctor/Supplier shall:	
1	Perform services professionally based on industry standards and always protect the interest of the government in general and NCMH.	
2.	Provide list of certified engineers/technical support team with addresses and contact numbers, involved and other activities related to the project.	
3.	Secure for the NCMH permits, licenses and approvals that are or maybe necessary to perform services.	
4.	Provide a chief officer or program manager (licensed ECE, COE or EE) who will be directly in charge of managing the project, and day-to-day contact personnel in charge of operations.	
5.		
6.	Submit a proposed working schedule for approval of NCMH and secure security pass and working permit on their site.	
7.	Ensure that all personnel involved in the project must be in proper uniform, because it will be their identification from the rest of NCMH's employees and visitors.	
8.	Protect the privacy of NCMH and ensure that all confidential information and data on its ICT infrastructure are kept confidential.	
QUALI	FICATION OF THE SUPPLIER	
•	Bidder must attach to his/her proposal an assurance from his/her principal that the items called for will be supplied in full and on time	
•	i. Extensive knowledge, background, and technical experience in a great number of projects covering Network installation, configuration cabling, set-up of PABX, IP Telephony, VOIP, WLAN, VLAN Systems, and Maintenance.	



ii. Extensive knowledge, background, and		
technical experience in the installation,		
configuration, interoperability, security, and		
industry standards on fiber and structured		
data cabling, wireless LAN, IP telephony,		
and other factors concerning cabling		
solutions.		
iii. Should have been engaged for at least five		
(5) years in various ICT services such as IT		
project management, computer networking,		
voice and data communications		
infrastructure development, and ICT		
facilities operation and management.		
The bidder should have locally-based manufacturer-		
certified engineers who will do the installation,		
configuration, and after-sales support of all proposed		
equipment for cabling, WLAN, and Network		
Engineering.		
i. Licensed Electronics and Communications		
Engineer		
ii. Manufacturer Certified Network Associate		
iii. Manufacturer Certified Network		
Professional		
Must have a 24x7 helpdesk support system.		
1 11 7		
All proposed items must be certified genuine and brand		
new. Bidder must be an authorized Philippine		
Distributor, Dealer or Value-Added Reseller of his/her		
proposed products and must provide local technical		
services on these.		
ADDITIONAL REQUIREMENTS TO BE SUBMITTED		
WITH TECHNICAL PROPOSAL		
1. Plan of Approach and Methodology		
2. Complete technology solution offered including		
detailed specifications.		
3. Corporate Profile which should include major		
achievements, service Portfolio or services offered		
by the firm, experience or engagements both local		
and international.		
4. Certification from the manufacturer or main		
authorized distributor in the Philippines that all		
proposed items will not reach their END-OF-SALE		
and END-OF-SUPPORT (services) in 3 years' time		
 from the date of award of the contract		
5. Training proposal shall be curriculum-based		
Training from a certified training center for three		
(3) NCMH system administrators on the following		
but not limited to installing, configuring,		
administration, management, and policy creation,		



	automation, backup, and troubleshooting of the proposed network active components.
	6. Draft of Service Level Agreement
EXPE	CTED DELIVERABLES
1.	1 unit of Core Switch including licenses
2.	2 Units of Distribution Switch including licenses
3.	29 units of Access Switches including licenses
4.	43 units of Wireless Access Points including a 5-year license
5.	18 units of SFP+ transceivers (18 SR)
6.	1 unit of Fiber Optic Cable Fusion Splicer
7.	38 units of IP Phones
8.	8 units 2ft by 4ft Data Cabinet
9.	Structured and Backbone cabling (refer to scope of work)
WARR	RANTY PERIOD AND SERVICES
1.	components/parts for the active network components shall be available at the authorized Philippine Service Center/s for a period of at least three (3) years after the warranty period i. Period: Three (3) years warranty is required on all delivered goods and shall take effect immediately after final acceptance of the project with NCMH. ii. Period: Three (3) years of workmanship on support and cabling and shall take effect immediately after final acceptance of the project with NCMH.
2.	Product upgrades:
	 i. Provision, supply and installation of announced improvements on the proposed product and/or any of its components, after date of submission of proposals and before date of implementation in the project sites without additional costs to NCMH. ii. Provision or entitlement of all applicable upgrades including hardware firmware or software upgrades without additional cost to NCMH.
3.	Preventive and Remedial Services:



	i. Preventive maintenance services are done semi-annually on-site.			
CONFORME:				
(Company Name)				
(Name and Signature of Authorized Representative)				

