



NATIONAL YOUTH SERVICE

TENDER NO. PROC/NYS/029/2020-2022

20TH APRIL, 2021

SUPPLY, INSTALLATION AND CONFIGURATION OF LOCAL AREA NETWORK AT NYS UNITS.

ADDENDUM NO. 6 – CLARIFICATIONS

NYS TENDER NOTICE PUBLISHED ON 6TH APRIL, 2021 IN THE STAR NEWSPAPER (My Gov.) AND EXTENDED TENDER SUBMISSION NOTICE PUBLISHED ON 19TH APRIL IN THE PEOPLE DAILY (My Gov.) AND IN THE WEBSITES www.nys.go.ke and www.tenders.go.ke.

1. *We are seeking clarification on the issue of the drawings as they were not provided by NYS for us to come up with the drawings. We kindly require an extra of 5 days, confirm this.*

ANSWER: Please refer to Addendum No. 5 and in the websites www.nys.go.ke and www.tenders.go.ke on the extension of tender submission date to 29th April 2021.

2. *We are requesting to redo the site visit to ascertain cable lengths.*

ANSWER: You are allowed to redo the site visit on Monday 26th April at 10.00 a.m. on any of the sites.

3. *Kindly give us the minimum specification for the WIFI access points.*

ANSWER:

Specifications and Product Requirements for WIFI Access Points.

No	Specifications	Descriptions
1	Standard	IEEE 802.11ac, 802.11n, 802.11g, 802.11b, 802.3af, 802.3u, 802.1X (security authentication), 802.1Q (VLAN), 802.1D (Spanning Tree), 802.11i (WPA2 security), 802.11e (wireless QoS), IPv4 (RFC 791), IPv6 (RFC 2460)
2	Ports	LAN Gigabit Ethernet auto-sensing
3	Cabling Type	Category 6a or better

4	Antennas	Internal antennas optimized for installation on a wall/ceiling
5	LED Indicators	1 multifunction LED
6	Operating System	Windows, linux
7	LEDs	1 LED

Physical Interfaces

10	Physical Dimensions (W x D x H)	5.31 x 5.31x 1.5 in. (135 x 135 x 38 mm)
11	Weight	0.77 lb or 350 g

Network capabilities

16	VLAN support	Yes
17	Number of VLANs	Yes
18	802.1X supplicant	Yes
19	SSID-to-VLAN mapping	Yes
20	Auto-channel selection	Yes
21	Spanning tree	Yes
22	Load Balancing	Yes
23	IPv6	Yes IPv6 host support IPv6 RADIUS, syslog, Network Time Protocol (NTP)
24	Layer 2	802.1Q-based VLANs, 8 active VLANs plus 1 Management VLAN.

Security

25	WPA, WPA2	Yes, including Enterprise
26	Access control	Yes, management Access Control List (ACL) plus MAC ACL
27	Secure management	HTTPS
28	SSID broadcast	Yes
29	Rogue access point detection	Yes

Mounting and Physical Security

30	Desktop or wall	Desktop or wall
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Quality of Service

31	QoS	Wi-Fi Multimedia and Traffic Specification (WMM TSPEC), client QoS
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Performance

32	Wireless throughput	Up to 1.2 Gbps data rate
33	Recommended user support	Up to 64 connective users, 10 active users per radio or more

Multiple-Access Point Management

34	Single Point Setup	Yes
35	Number of access points per cluster	4
36	Active clients per cluster	120

Configuration and Management

37	Web user interface	Built-in web user interface for easy browser-based configuration (HTTP, HTTPS)
38	Management protocols	Web browser, Simple Network Management Protocol (SNMP) v3, Bonjour
39	Remote management	Yes
40	Event logging	Local, remote syslog, email alerts
41	Network diagnostics	Logging and packet capture
42	Web firmware upgrade	Firmware upgradable through web browser
44	(DHCP)	DHCP client
45	IPv6 host	Yes
46	HTTP redirect	Yes

Wireless

47	frequency	Dual concurrent radios (2.4 and 5 GHz)
48	Radio and Modulation Type	Dual radio, Orthogonal Frequency Division Multiplexing (OFDM)
49	WLAN	802.11n/ac 2x2 Multiple-Input Multiple-Output (MIMO) with 2 spatial streams at 5 GHz PHY data rate up to 1.2 Gbps
50	Data Rates Supported	802.11a/b/g:/802.11n: 6.5 1 Mbps to 300 Mbps
51	Frequency Band and Operating Channels	2.4-5.745 ghz
	Non-overlapping Channels	2.4 GHz, 802.11b/g
52	Wireless Isolation	Wireless isolation between clients
53	External Antennas	None
54	Internal Antennas	Internal Fixed Planar Inverted-F Antenna (PIFA)
55	Antenna Gain in dBi	Maximum antenna gain of 3.61 dBi on 2.4 GHz Maximum antenna gain of 3.85 dBi on 5 GHz
56	Wireless Distribution System (WDS)	Yes
57	Fast Roaming	Yes
58	Multiple SSIDs	8
59	Wireless VLAN Map	Yes
60	WLAN Security	Yes
61	Wi-Fi Multimedia (WMM)	Yes, with unscheduled automatic power save

Operating Modes

62	Access point	Access point mode, WDS Bridging, Workgroup Bridge mode
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NB: ALL OTHER CONDITIONS REMAIN THE SAME.



Head, Supply Chain Management Services

FOR: DIRECTOR GENERAL/CEO