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Date: December 15, 2016
Ref.: RFQ/17/029
Subject: Questions and Answers Regarding Solicitation for Data Center Equipment in Monrovia, Liberia

The following are responses to all questions received from vendors participating in this procurement. Specifications detailed in the responses below are <u>illustrative</u> only, and proposed equipment may include reasonable variation. Quotations will be evaluated based on relative responsiveness to the illustrative specifications.

Please note that some specifications noted in this document differ from those listed in the original RFQ, and are identified accordingly. In these cases, the specifications outlined in this document take precedence and should be used as the basis for quotations.

Due to the delayed release of these answers, the adjustment of some specifications, and the high level of detail entailed, **the deadline for submission of quotations has been extended: quotations must be received via email, to the addresses noted in the RFQ, by no later than 17:00 Monrovia local time on December 22, 2016.**

The following vendor questions are with regard to <u>RFQ Item #7: Rack Server</u>.

Vendor Question: What will the server be used for (Application, File Storage, Database, Email. etc)?

IFES Answer: The Servers will be used for applications, database and file storage of scanned OMR Forms, and as a virtual server for backup purposes.

Vendor Question: How many users will be connected?

IFES Answer: 50 concurrent users

Vendor Question: When do you need this to buy?

IFES Answer: IFES desires the purchased materials to be delivered to the National Elections Commission of Liberia by or before January 25, 2017.

Vendor Question: CHASSIS: * Do they need a tower or rackmount? If rackmount 1U or 2U?

IFES Answer: Rack mount & 2U are preferred.

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Vendor Question:	PROCESSOR: * How many processors do they need? How many cores per proc?
IFES Answer:	The following are illustrative specifications: Dual Intel® Xeon® E5-2609 v3 1.9GHz, 15M Cache, 6.40GT/s QPI, No Turbo, No HT, 6C/6T (85W) Max Mem 1600MHz
Vendor Question:	MEMORY: * How much memory would they need? Would they like an optimization?
IFES Answer:	The following are illustrative specifications: 32GB RDIMM, 2400MT/s, Dual Rank, x4 Data Width. Optimization is preferred.
Vendor Question:	HDD: * How much storage would they need and in what RAID config? What's the preferred drive size, type and speed?
IFES Answer:	The following are illustrative specifications: 3TB 7.2K RPM SATA 6Gbps 3.5in Hot-plug, 3.5" Chassis with up to 8 Hot Plug Hard Drives. One additional, spare 3TB drive should be included per server. Only RAID controller is required, not configured.
Vendor Question:	ODD: * Would they still need an optical drive? Would that be a reader or writer?
IFES Answer:	Yes, an optical DVD +/- RW drive is preferred.
Vendor Question:	PSU/FANS: * Would they need power supply/fan redundancy?
IFES Answer:	Power supply redundancy only is preferred.
Vendor Question:	OS: * What OS/edition do they need? What type CALS and how many are required?
IFES Answer:	Windows Server® 2012 Enterprise R2 with 50 CALS
Vendor Question:	NETWORKING: *How many ports is needed? 1Gbe? 10Gbe? For 10Gbe NIC, What type of connection is preferred? Fiber or DAC?
IFES Answer:	2 ports with 1Gbe NIC are desired.

The following questions were submitted in-line in the text of the RFQ. For clarity in reference, questions and answers have been transferred to Comments connected to the relevant equipment and specifications.

ITEM		MINIMUM SPECIFICATIONS AND REQUIREMENTS	QTY	UNIT
Computers: All proposed computers must include genuine, licensed copies of Microsoft Office 2013 Professional Plus and Microsoft Windows 10, including a 2-year warranty. All equipment must be 220v / 240v compatible.				
1	Desktop Computers	● Intel Core 6th Generation i7-6700T ● 16 GB RAM DDR4 ● Intel Integrated Graphics ● 500 GB HDD (7,200 rpm) ● 17" Flat Panel Monitor	25	Pcs.
2	Laptop Computers – Type 1	● High performance, business grade ● Dual voltage ● 3.1 GHz Dual Core Intel Core i7 ● 512 GB Internal SSD ● 16GB 1866 MHz LP DDR3 SDRAM ● Intel Iris Graphics 61000 ● High-precision, multi-touch trackpad ● Backlit keyboard (English) ● Included external CD-RW/DVD-RW drive & spare battery per laptop ● Included 512 GB External Hard Drive	2	Pcs.
3	Laptop Computers – Type 2	● High performance, business grade ● Dual voltage ● Core i7-5500u ● 512 GB HHD ● 64 GB RAM ● GeForce 840M graphics card ● Backlit keyboard (English) ● 15.6" FHD 1080p IPS Touchscreen ● AC Wi-Fi ● Convertible laptop/tablet modes preferred ● Included spare battery for each laptop ● Included 512 GB External Hard Drive	2	Pcs.
Other Equipment				
4	LCD Console Server Mount Monitor/ Keyboard	The following are illustrative specifications: ● 1U 450.0MMX834.0MMX44.45MM (17.inches x 32.8 inches x 1.75 inches) ● 20W Active Matrix Liquid Crystal Dislay (LC)	2	Pcs.
		● 17" FP Monitor, Display 337.9 mm x 270.3 mm (13.3 inches x 10.64 inches) Pixel Pitch-0.264mm ● AC input (100v-240V, 50/60Hz 1.2A Output DC 12V, 3.33A ● Keyboard, Touch Pad ● 83 Key Layout with Full 101-Key Functionality" ● Integrated 16mm Touchpad, 2 Mouse buttons ● USB Connector for both keyboard and Touchpad; PS/2 connector for Touchpad (USB to PS/2 adapter for keyboard		

Commented [A1]: Vendor Question: MICROSOFT 2016 ACCEPTABLE?

IFES Answer: Yes.

Commented [A2]: Vendor Question: WIN 10 PRO ?

IFES Answer: Windows 10 Pro 64 bit is the desired operating system.

Commented [A3]: Vendor Question: Is 19'' monitor acceptable??

IFES Answer: Due to available space in the Data Center, 17" is preferred.

Commented [A4]: Vendor Question: How many inch the screen??

IFES Answer: The desired screen size is 13".

Commented [A5]: Vendor Question: what do you mean ??

IFES Answer: Laptops should be compatible with both 110v and 240v.

Commented [A6]: Vendor Question: 500GB or 1TB , no 512

IFES Answer: In this scenario, 500 GB would be preferable.

Commented [A7]: Vendor Question: The above specs cannot be met in a 2 in 1 laptop tablet.

IFES Answer: In the event that a suitable, convertible/dual-mode model is not available, laptop-only is the preferred alternative.

Commented [A8]: Vendor Question: NEED MORE INFORMATION AND MORE ACCURATE SPECS. PLEASE PROVIDE ANY MODEL NUMBER FROM ANY BRAND FOR REFERENCE

IFES Answer: Please note the updated illustrative specifications for this item. In the interest of free and fair competition, it is IFES' policy not to specify brands or models in solicitations unless absolutely necessary.

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5	Display Monitors	● Heavy duty bracket for wall mount ● 52"- 55" ● Native resolution 1920 x 1080 ● Contrast ratio 4000:1 ● Brightness 450 cd/m2 ● Aspect ratio 16:9 ● 15 million displayable colors ● Analog RGB 0.7 Vp-p/75 Ohm ● PC and Mac compatible connectivity ● HDMI & DVI digital terminals ● VGA 15-pin D-sub analog terminal ● Ethernet (RJ45) ext. control ● Stereo mini-jack and HDMI audio (input/output) ● 220V-240V	2	Pcs.
6	Portable Digital Projectors	● High resolution with minimum 16:9 image aspect ratio ● 1080p (full HD) video format, minimum 60,000:1 contrast ratio ● Minimum 2 HDMI ports ● 10W +10W audio output ● Minimum 3200 lumens ● 1 spare lamp & HDMI cable per projector	4	Pcs.
7	Rack Mount Servers	The following are illustrative specifications: • Dual Intel® Xeon® E5-2609 v3 1.9GHz,15M Cache,6.40GT/s QPI,No • Turbo, No HT,6C/6T (85W) Max Mem 1600MHz • 3.5" Chassis with up to 8 Hot Plug Hard Drives • 32GB RDIMM, 2400MT/s, Dual Rank, x4 Data Width • RAID Controller • 3TB 7.2K RPM SATA 6Gbps 3.5in Hot-plug • On-Board Broadcom 5720 Quad Port 1Gb LOM • DVD+/-RW, SATA, Internal • Windows Server® 2012 Enterprise R2 server, 50 CAL • 220v-240v • One additional, spare 3TB drive per server	2	Pcs.
8	Cable Management Kit	● Cable management kit for 3 servers and 3 racks ● Must be fully compatible with servers provided (Item #7)	3	Kits
9	Projector Screens	● 120" diagonal or larger projector screen ● Approximately 56" H and 104" W — specify exact dimensions ● 16:9 or 16:10 Aspect Ratio ● View Size: 72.0" H x 96.0" W ● Overall size: 125.4" H x 102.4" W ● Bright White, 1.1 Gain ● Multi-layer weave, 180 degree wide viewing angle, fully black backed front projection screen with textured surface	4	Pcs.
10	24 Port Managed Switches	● 24 Port 1000 Mbps managed network switches ● 2 fiber uplink ports (required)	8	Pcs.

Commented [A9]: Vendor Question: SERVER SPECS ARE TOO VAGUE. DESCRIPTION OF SPECS NEED TO BE MORE ACCURATE AND WITH MORE DETAILS.
IFES Answer: Please note the updated illustrative specifications for this item.

Commented [A10]: Vendor Question: 3 SERVERS OR 2 SERVERS ?
IFES Answer: Responsive quotations should include 3 kits, as specified.

Commented [A11]: Vendor Question: WITH OR WITHOUT POE ??
IFES Answer: Switches should be with PoE.

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11	Office Desks	● Wood construction, at least two drawers ● Rectangular, approximately 30" x 72" (76cm x 183cm) ● High weight/load capacity desired – please specify capacity in lbs./kg	70	Pcs.
12	Office Chairs	● Swivel chairs with armrests & rollers ● Black ● Minimum tested load capacity: 240 lbs	60	Pcs.
13	Scanner	● A3 Scanner ● ADF speed: At least 20 ppm ● Up to 600 dpi (color and monochrome, ADF) ● Up to 1200 dpi (color and monochrome, flatbed) ● Up to 35 ppm (mono) / up to 35 ppm (colour) ● Image Sensor: CCD ● Bit depth: 10 bit Grayscale ● Media Size: Max: A3 or 11.7" x 17", Min: A8/(2.10" x 2.90")	2	Pcs.
14	Photocopier Toner	● 24,000 pages / cartridge ● Must be compatible with Canon Image Runner 3235i	100	Pcs.
15	Shredders	● Heavy Duty ● 220V - 240V ● Speed: 30 FPM ● Cross Cut shredding ● Up to 30 pages at a time ● Minimum 15" feed width ● Continuous feeding ● Capable of shredding papers, staples, paper clips, CDs/DVDs	5	Pcs.
16	UPS for desktop	● 1000 VA UPS ● 220V - 240V ● Min. battery life: 20 minutes ● Min. four outlets per UPS unit	60	Pcs.
16a	Surge Protector	● 220V - 240V ● Minimum 3 foot long cord ● 5-7 plugs ● Heavy Duty European Cord ● 50Hz/60Hz – 450 Joules. Max. 4000 Watt Capacity	25	Pcs.
17	Access Control Unit	● Access control lock ● Preferred RFID & Pin access control	4	Pcs.
18	Network Attached Storage	● 72 TB (12 x 6TB WD Red Pro) ● 220V - 240V ● 12 Bay 2U (Additional 12 SATA, SAS, or SSD drives preferred) ● For Video Surveillance & Data on computers / servers	3	Pcs.
19	USB Memory Sticks	● 64 GB USB Memory Sticks	20	Pcs.
20	PVC Card Printer	● For Staff ID cards ● 220V - 240V ● Dual-side ID Card Printer. ● 300 dpi Resolution ● Print Method: Dye-sublimation / Resin Thermal Transfer ● Printing Speed: 24 seconds per card, 150 cards per hour ● Accepts cards sizes CR-80 and CR-79 Adhesive Back	1	Printer
21	PVC Cards	● PVC Cards (compatible with PVC Card Printer above) ● Sizes CR-80 and CR-79 Adhesive Back.	750	Pcs.

Commented [A12]: Vendor Question: SMART OR BACKUP UPS??

IFES Answer: Backup UPS systems are desired.

Commented [A13]: Vendor Question: BIOMETRIC OR NO ??

IFES Answer: Biometric access is desired.

Commented [A14]: Vendor Question: 2.0 OR 3.0 ?

IFES Answer: USB 3.0 is preferred.

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22	Printers	● Heavy Duty Laser Printer ● 220V - 240V ● Minimum input capacity of 1,600 sheets, duplex component ● Processor speed: 1.2 GHz ● Display: Min. 4"/10.5 cm, touchscreen LCD (color graphics) ● Best black print quality: Up to 1200 x 1200 dpi ● First page out speed: 7 seconds ● Print speed (black): 65 ppm	8	Pcs.
22a	Duplex Unit	● Heavy duty printer duplex unit or additional 3 trays unit ● Must be compatible with the printer provided (Item #22)	8	Pcs.
22b	Black Printers Cartridges	● Black laser toner cartridge ● Approximate yield of 10,000 pages ● Must be compatible with the printer provided (Item #22)	350	Pcs.
22c	Heavy Duty, Black Laser Toner Cartridge	● Heavy duty black laser toner Cartridge, ● Approximate yield of 25,000 pages ● Must be compatible with the printer provided (Item #22)	20	Pcs.
23	Black Printer Cartridges	● Black Laser Toner ● Approximate yield of 10,000 pages ● Must be compatible with HP Color LaserJet CP6015dn printer	125	Pcs.
24	Magenta Printer Cartridge	● Magenta Laser Toner ● Approximate yield of 10,000 pages ● Must be compatible with HP Color LaserJet CP6015dn printer	35	Pcs.
25	Cyan Printer Cartridge	● Cyan Laser Toner ● Approximate yield of 10,000 pages ● Must be compatible with HP Color LaserJet CP6015dn printer	35	Pcs.
26	Yellow Printer Cartridge	● Yellow Laser Toner ● Approximate yield of 10,000 pages ● Must be compatible with HP Color LaserJet CP6015dn printer	35	Pcs.
27	Laser Printer Black Drum Unit	● Approximate yield 35,000 pages ● Must be compatible with HP Color LaserJet CP6015dn printer	75	Pcs.
28	Laser Printer Magenta Drum Unit	● Approximate yield 35,000 pages ● Must be compatible with HP Color LaserJet CP6015dn printer	50	Pcs.
29	Laser Printer Cyan Drum Unit	● Approximate yield 35,000 pages ● Must be compatible with HP Color LaserJet CP6015dn printer	50	Pcs.

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30	Laser Printer Yellow Drum Unit	● Approximate yield 35,000 pages ● Must be compatible with HP Color LaserJet CP6015dn printer	50	Pcs.
31a	Printer Fuser Kit – Type 1	● Must include: paper pickup rollers, paper feed/separation rollers, a transfer roller, and the fuser assembly: ● 110 volts ● Must be compatible with printer HP LaserJet P4515	10	Kits
31b	Printer Fuser Kit – Type 2	● Must include: paper pickup rollers, paper feed/separation rollers, a transfer roller, and the fuser assembly: ● 220 volts ● Must be compatible with printer HP LaserJet P4515	5	Kits
32	Printer Transfer Kit	● Laser Printer Transfer Kit ● Must be compatible with printer HP LaserJet P4515	15	Kits
33	Printer Roller Kit	● Laser Printer Roller Kit ● Must be compatible with printer HP LaserJet P4515	20	Kits
34	Copy Paper	● White, 80 gram, A4 paper ● Each box should contain 5 reams @ 500 pages each)	500	Boxes
35	Poster Paper	● White, 120 grams, A4 paper ● Each box should contain 5 reams @ 500 pages each)	25	Boxes
36	Copy Paper	● White 80 grams A3 paper ● Each box should contain 5 reams @ 500 pages each)	200	Boxes
37	Staplers	● High-capacity, heavy duty staplers, 200+ page capacity	50	Pcs.
38	Staplers	● Standard heavy duty staplers, 100+ page capacity	40	Pcs.
39	Staples	● High-capacity, heavy-duty staples (200+ page capacity) ● Must be compatible with proposed Item #37	1,200	Packs
40	Staples	● Standard, heavy-duty staples (100-120 page capacity) ● Must be compatible with proposed Item #38	1,200	Packs
41	DVD RW/DVD	DVD RW/DVD disk	100	Pcs.
42	CD/DVD Labels	Labels for CD printing	150	Labels

END OF Q&A