ICT Specifications for the Wash Project – Aden and Mukalla

No.	Item Description		Q	uantity		Delivery po	antity int LOT 1 and OT 2	Total	
	•	WC - Aden	C.F - Aden	WC - Mukalla	C.F- Mukalla	Aden- LOT1	Mukalla-LOT2	Quantity	
1	Desktop PC	30	50	38	38	80	76	156	
2	Laptop	8	10	2	9	18	11	29	
3	Multifunction Printer (photo copier)	10	0	11	10	10	21	31	
4	PC Printer Epson		1	2	16	1	18	19	
5	Aden Net Modem		0	0	0	8	0	8	
6	Bills printer		0	0	2	8	2	10	
7	UPS Electricity Storage for Desktop PCs		40	38	38	40	76	116	
8	UPS Electricity storage connected printer & Modem (500VA Smart-UPS with SmartConnect, Pure Sinewave UPS Battery Backup, Line Interactive, 120V)		0	2	2	0	4	4	
9	HARD DISK 1 TB	3	13	8	8	16	16	32	
10	FORTIGATE 60E FIREWALL TO VPN CONNECTION	8	0	0	0	8	0	8	
11	Money counting machine	8	0	0	0	8	0	8	
12	Finger print device	7	0	4	4	7	8	15	
13	HR System ERP		1	1	0	2	1	3	
14	Digital Camera	0	2	1	0	2	1	3	
15	Internet Network	0	12	0	0	12	0	12	
16	flash driver 64 giga (SanDisk Ultra Dual 64GB USB 3.0 OTG Pen Drive)	0	40	40	40	40	80	120	

17	anti virous (11 users)	0	11	0	0	11	0	11
18	Electric stockiest (6 outlet-Surge Protectors)	0	20	12	15	20	27	47
19	Computer dock station with full options	0	20	0	20	20	20	40
20	Server	0	1	0	0	1	0	1
21	Large paper shredder Cross-Cut, 21.7- Gallon Capacity Continuous Operation Shredder)	0	1	0	0	1	0	1
22	Carrying Case for Camera	0	1	0	0	1	0	1
23	Tripod for Camera	0	1	0	0	1	0	1
24	Data show Projector	0	2	0	1	2	1	3
25	Employee Time Monitoring Program (3 copies)	0	0	1	0	0	1	1
26	Document archiving software	0	0	1	0	0	1	1
27	Power Banks 150 watt	0	0	0	10	0	10	10

	LOT 1 Aden	LOT 2 Mukalla
Delivery Time		
Delivery Location as mentioned on the ITB docs	Location A / Location B	Location A / Location B
Warranty	Required	Required
After sale services must be Physical by company or their authorized agent.	Required	Required
Spare parts availability and Maintenance	Required	Required

NOTE: Supplier can submit their quotation per LOT or for both

ICT Specifications :

Desktop PC

PC Desktop specifications							
Category	Category Description						
Processor	Intel core i5@2.7 GHz						
Memory	8GB RAM						
Hard drive	At least 1TB SATA hard disk						
Ethernet	10/100/1000 Mbps (Gigabit)						
CD/DVD drive	Dual Layer DVD+/-RW Drive						
Monitor	Monitor At least 20" LCD display, with Energy Star rating						
Video card/VRAM	Video card/VRAM 2GB video RAM - External (INVIDA-AMD RADEOM)						
Ports	"						
Operating system	N/A						

ltem#1		Q	uantity		Quar Delive	Total Quantity	
Description	WC - Aden	C.F - Aden	WC - Mukalla	C.F- Mukalla	Aden	Mukalla	Total Quantity
Desktop PC	30	50	38	38	80	76	156

LAPTOPs:

Laptop specifications							
Processor	7th generation Intel® Core™ i7-4712HQ quad core						
F10CE5501	processor						
Dimensions	Height: 0.31-0.71" (8-18mm) / Width: 14.65" (372mm) / Depth: 10" (254mm)						
Display options							
	•15.6" 4K Ultra HD (3840x2160): Dell UltraSharp™, IGZO2, 10 finger multi-touch, wide view, LED-backlit, Premium Panel Guarantee						
	•15.6" FHD(1920x1080): Dell UltraSharp™, 10 finger multi-touch, wide view, LED-backlit, Premium Panel Guarantee						
Memory	2 DIMM slots: up to 16GB 1600MHz DDR3L `						
Storage Options	Support for two storage devices: one 2.5" drive and one solid state MSATA drive; Dell Fast Response Free Fall Sensor standard						
	Hard Disk Drive (HDD): 500GB up to 1TB 2.5" 5400rpm SATA 6Gb/s						
	• Solid State Hybrid Hard Drive (SSHD): 500GB 2.5" SATA 6Gb/s with 8GB solid state storage						

 Solid State Drive (SSD): 1TB 2.5" SATA 6Gb/s 						
	 Solid State Mini-Card storage device (mSATA): 1TB 					
Graphics	NVIDIA® Quadro® K1100M with 2GB GDDR5 dedicated memory					
Battery6-cell (61Wh); 6-cell (91Wh)						
AC adapter 130W AC adapter						
Keyboard / Touchpad Full size, backlit chiclet keyboard; 1.3mm travel						
	Precision touchpad, seamless glass integrated button					
Wireless connectivity	Wired: USB3.0 to Ethernet adapter included					
	Wireless LAN: Intel® Dual Band Wireless-AC 7260 Plus Bluetooth 4.0					
	Dell Wireless 1560 2X2 802.11ac + Bluetooth 4.0					

 Waves MaxxAudio® Pro suite of advanced audio enhancement tools 					
Webcam	Widescreen HD (720p) webcam with dual array digital microphones Left: HDMI, Thunderbolt 2.0/mini display port, USB 3.0 w/Powershare, headset jack (1), Battery life indicator				
Ports and connectors					
	Right: 3-in-1 Card Reader (SD, SDHC, SDXC), USB2.0 with PowerShare, USB3.0 with PowerShare				
Operating					
System Options	Windows® 10 Pro (64-Bit)				
Storage	1 TB -SATA HDD				

Itom #2 Deceription	Quantity					tity & y point	Total Quantity
Item #2 Description	Location 1 Loc	Location 2 Aden	Location 1 Mukalla	Location 2 Mukalla	Aden	Mukalla	Total Quantity
Laptop Qty	8	10	2	9	18	11	29

MULTIFUNCTION PRINTERs:

Γ	Multifunction Laser Color Printer							
Speed	Up to 30 ppm (Letter) / 28 ppm (A4)							
Duty Cycle	Up to 50,000 pages / month							
Paper	Main Tray 1: 250 sheets; Custom sizes: 3 x 5 in. to 8.5 x 14 in. / 76 x 127 mm to 216 x 356 mm							
Handling	Automatic two-sided printing: Standard							
	Paper output: 150 sheets							
	First-page-out-time: As fast as 8.5 seconds							
	Print resolution: 600 x 600 dpi (1200 x 1200 enhanced image quality)							
	Processor: 360 MHz							
Print	Memory: 384 MB.							
	Connectivity: 10/100 Base-TX Ethernet, USB 2.0							
	Print features: Reduce/Enlarge, Toner Saver,							
	Print from USB memory drive, Booklet printing							
	First-page-out-time: As fast as 10 seconds							
Conv	Copy resolution: Up to 600 x 600 dpi (1200 x 1200 interpolated)							
Сору	Copy features: Reduce/Enlarge (25 – 400%), Auto background suppression,							
	3 level darkness Control, Two-sided (1:2 duplex copy), Manual 2: 2 copying.							
	Fax features: Secure fax receive, PC/LAN Fax (send only),							
	Fax forward to fax, Junk fax barrier, Searchable address book,							
Fax	Auto reduction, Battery backup, Distinctive ring, Broadcast (multi-send)							
	fax, Up to 200 group dial/broadcast locations, 200 speed dial locations,							
	Delayed fax, Memory receive, Color fax send, Fax reports,							

	Up to 300 x 300 dpi, 4 MB (225 pages) , Fax forward to email, Two-sided fax
	receive
	Scan destinations: Scan to application, Network Scan to PC, Scan to USB
Scan	memory drive,
	Scan to email, Scan to PC Desktop

Item #3 Description		Qı	uantity		Quan Deliver	Total	
	WC - Aden	C.F - Aden	WC - Mukalla	C.F- Mukalla	Aden	Mukalla	Quantity
Multifunction Printer	10	0	11	10	10	21	31

IMPACT DOT PRINTERs:

	Impact dot matrix Printer					
Number of Pins	s 9 pins					
Number of columns	136 columns					
Printing Speed	High Speed-Draft: 10 cpi: 1550 chars/s					
Connectivity	USB 2.0 Type , External network interface					
	Continuous paper front and rear, Paper output front and rear,					
Paper Handling	Continuous Paper (single- and multi-layer), Labels (single- and multi-layer)					
Compatible	Windows XP , Windows 7 , Windows 2003 server , Windows 2008 server . All					
Operating	(32-bit, 64-bit).					
Systems						
Memory	256 MB					
Ribbon Yield	15000000 characters Black Draft					

Item#4 Description	Quantity					ntity & ery point	Total Quantity
	WC - Aden	C.F - Aden	WC - Mukalla	C.F- Mukalla	Aden	Mukalla	
PC Printer Epson or Equivalent	0	1	2	16	1	18	19
Bills printer	8	0	0	2	8	2	10

NETWORK & ACCESS:

Access Switches (Huawei, Cisco, Billion or equivalent)						
24 x RJ-45 10/100/1000Base-T PoE LAN	Interfaces/Ports					
Media & Performance						
77.4 Mpps	Forwarding/Filtering Rate:					
176 Gbps	Switching Throughput:					
I/O Expansions						
5	Number of Expansion Slots:					
(4 Total) SFP (mini-GBIC) Uplink	Evenneign Sloter					
(1 Total) Stacking Module	Expansion Slots:					
Network & Communication						
2	Layer Support:					
Management & Protocols						
Yes	Manageable:					
• DHCP						
• QoS						
• VLAN						
• SNMP v1, v2, v3	Management:					
• Syslog						
• CLI						
• RMON						
LAN Management Solution						
Memory						
128MB or more	Standard Memory:					
DRAM	Memory Technology:					
64MB or more	Flash Memory:					
Software						
yes	Operating System:					
Power Description						

ſes	Power Over Ethernet:					
Power Supply	Power Source:					
Yes	Redundant Power Supply:					
Physical Characteri	'istics					
1U	Compatible Rack Unit:					
Rack-mountable	Form Factor:					
Stackable						
	SERVER SPECS (ITEM NO. 21)					
Madal	Required specs					
Model	Branded Dell, Lenovo, HP or equivalent					
Processer	Gen10 Intel Xeon E-2124 Quad-Core (3.30GHz 8MB)					
RAM	16GB RDIMM, 2666MHz UDIMM					
RAID	C7, Unconfigured RAID for HDDs or SSDs (Mixed Drive Types Allowed					
HDD	1TB 7.2K RPM x 2 HDD with total 2 TB capacity which supports mirroring RAID technology					
Operating System	Windows license server 2016 Enterprise Open 12 call users					
Ready Rails™ & Power supply	Platinum 350W (2) Rack Power Cord 2M (C13/C14 12A)					
Optical Drive	8X DVD +/-RW drive					
Keyboard & Mouse	Keyboard & Mouse (English & Arabic) with metal support					
Monitor	21.5 inch Full HD Monitor					
	3 years with anytime support					
Warranty	Media Server 2012 Enterprise					

Item#5 description		Quantity					Total Quantity
•	WC - Aden	C.F - Aden	WC - Mukalla	C.F- Mukalla	Aden	Mukalla	·
Aden Net Modem	8	12	0	0	20	0	20
Kaspersky Internet Security anti virous (11 users in 1 package)	0	11	0	0	11	0	11
server	0	1	0	0	1	0	1

FIREWALL:

	Fortigate 60E Firewall Specifications					
System Performance -						
Enterprise Traffic Mix:						
IPS Throughput: 400 Mbps	General Information					
NGFW Throughput: 250 Mbps	General mormation					
Threat Protection						
Throughput: 200 Mbps						
Firewall Throughput (1518 /						
512 / 64 byte UDP packets): 3 /						
3 / 3 Gbps						
Firewall Latency (64 byte UDP						
packets): 3 µs						
Firewall Throughput (Packets						
Per Second): 4.5 Mpps						
Concurrent Sessions (TCP):						
1.3 Million						
New Sessions/Second (TCP):						
30,000						
Firewall Policies: 5,000						
IPsec VPN Throughput (512						
byte): 2 Gbps	System Performance					
Gateway-to-Gateway IPsec						
VPN Tunnels: 200						
Client-to-Gateway IPsec VPN						
Tunnels: 500						
SSL-VPN Throughput: 150						
Mbps						
Concurrent SSL-VPN Users						
(Recommended Maximum,						
Tunnel Mode): 100						
SSL Inspection Throughput						
(IPS, avg. HTTPS): 135 Mbps						
SSL Inspection CPS (IPS, avg.						
HTTPS): 135						

SSL Inspection Concurrent Session (IPS, avg. HTTPS): 75,000	
Application Control	
Throughput (HTTP 64K): 650	
Mbps	
CAPWAP Throughput (HTTP	
64K): 890 Mbps	
Virtual Domains (Default /	
Maximum): 10 / 10	
Maximum Number of	
Switches Supported: 8	
High Availability	
Configurations: Active /	
Active, Active / Passive,	
Clustering	
(2) GE RJ45 WAN	
(1) GE RJ45 DMZ	
(7) GE RJ45 Internal	Dente/Oennestene
(1) USB	Ports/Connectors
(1) Console RJ45	
Power Required: 100–240V	
AC, 50–60 Hz	
Maximum Current: 110 V / 1.5]
A, 220 V / 0.75 A	Power Notes
Power Consumption (Average	
/ Maximum): 11.7 / 14 W	
Networking Protocol: Gigabit	
Ethernet	
Remote Management	Drotocolo
Protocol: HTTP	Protocols
Switching Protocol: Ethernet	
Transport Protocol: IPSec	

Compliant Standards: CB, CE, C-Tick, CUL, FCC Part 15 B,	
UL, VCCI	

Item#6 description		Q	uantity		Quantity & Delivery point		Total Quantity
·	WC - Aden	C.F - Aden	WC - Mukalla	C.F- Mukalla	Aden	Mukalla	
FORTIGATE 60E FIREWALL TO VPN CONNECTION	8	0	0	0	8	0	8

SYSTEMS:

ltore#7 deservintion		Q	uantity		Quar Delive	Total Quantity	
Item#7 description	WC - Aden	C.F - Aden	WC - Mukalla	C.F- Mukalla	Aden	Mukalla	Total Quantity
HR System ERP Yemen Soft HR System							
Al-Ameen HR System							
Fenex HR System	1	1	1	0	2	1	3
SYS HR system	T	T	T	0	Z	T	5
Any ERP System that complies with the governmental institutions workflow.							
Kaspersky Internet Security anti virous (11 users in 1 package)	0	11	0	0	11	0	11
Employee Time Monitoring Program (3 copies) Yemen Soft HR System							
Al-Ameen HR System							
Fenex HR System	0	0	1	0	0	1	1
SYS HR system							
Any ERP System that complies with the governmental institutions workflow.							
Document archiving software Yemen Soft HR System	0	0	1	0	0	1	1

Al-Ameen HR System				
Fenex HR System				
SYS HR system				
Any ERP System that complies with the governmental institutions workflow.				

Canon EOS 5D Mark IV Full Frame Digital SLR Camera Body or Equivalent	 30.4 MegaPixel full frame CMOS sensor for versatile shooting Up to 7.0 frames per second continuous shooting speed 61 point AF system with 41 cross points for expanded vertical coverage ISO range 100 32000 with 50 102400 expansion 4K video recording at 30p or 24p and in camera still frame grab of 8.8 MegaPixel images Touch screen LCD monitor
	 Spare battery Spare memory card : large capacity options up to 512GB. Up to 45 - 80 MB/s write speed. Operating temperature: 0° to 70° C
Camera Tripod DSLR Stand,	 1/4 360 panorama ball head : This camera tripod stand also equips 360° panorama ball head, 1/4 quick release mount, and ball head handle. With your camera or smart phone mounted on it, you can take photo or video at any Angle, eg horizontally, vertically, upward and downward. Also accurate panoramas can be easily orchestrated and recorded Vlog Blogging Video camera Tripod: With the 1/4 panorama 360 ball head and 360 rotate phone holder, you can use it when do vlog, vlogging, youtube, video, and blogging. This camera phone tripod is compatible with most cameras, such as Canon Nikon Sony Samsung Fuji Olympus Handycam Lumix Rebel and so on High quality and Convenience: Camera tripod leg made of high quality aluminum alloy tube (4-sections) and fork made of High quality ABS. Center column with spring hook at the bottom to suspend goods for increased stability. This stand (size from 16" To 49") comes with a carry bag

No.	Item# 8 Description	Quantity				Quantity Delivery point		
		WC - Aden	C.F - Aden	WC - Mukalla	C.F- Mukalla	Aden	Mukalla	Total Quantity
	Digital Camera	0	2	1	0	2	1	3
	Carrying Case for Camera	0	1	0	0	1	0	1
	Tripod for Camera	0	1	0	0	1	0	1