

A. TECHNICAL SPECIFICATIONS OF IT support			
ITEM NO	Item	ITEM DESCRIPTIONS	REFERENCE PICTRUES
1	Laptop Type 1	Processor: Intel® Core™ i7-10510U, 4 cores 8M Cache, up to 4.90 GHz Memory: 8GB DIMM DDR4-2666 Storage: Sorage: 512GB SSD Graphic: AMD Radeon™ 625, memory 2GB GDDR5, or Equivalent Display: 15.6" FHD (1920×1080) Battery: Integrated Li-Polymer 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter Power Adapter: 45W USB-C AC adapter or 65W USB-C AC adapter WLAN +Bluetooth: One of the following, configurable by model: • Realtek RTL8822CE, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card • Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card • Intel Wi-Fi 6 AX201, Wi-Fi 2x2 802.11ax + Bluetooth 5.0, M.2 card Camera: HD720p camera, fixed focus Ports: USB 2.0, USB 3.1 Gen 1,HDMI 1.4b, Ethernet (RJ-45), headphone / microphone combo jack,multi-format SD media card reader Keyboard: English/Arabic Case color: Black Bottom: PC/ABS plastic Operating System: Windows 10 Pro Original Sticker or key license Sales Package Laptop, Battery, AC Adapter, User Guide Warranty: one year	
2	Laptop Type 2	Processor: Intel® Core™ i5-10510U, 4 cores 8M Cache, up to 4.20 GHz Memory: 8GB DIMM DDR4-2666 Storage: Sorage: 512GB SSD Graphic: AMD Radeon™ 625, memory 2GB GDDR5, or Equivalent Display: 15.6" FHD (1920×1080) Battery: Integrated Li-Polymer 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter Power Adapter: Power Adapter, 45W USB-C AC adapter or 65W USB-C AC adapter WLAN +Bluetooth: One of the following, configurable by model: • Realtek RTL8822CE, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card • Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card • Intel Wi-Fi 6 AX201, Wi-Fi 2x2 802.11ax + Bluetooth 5.0, M.2 card Camera: HD720p camera, fixed focus Ports: USB 2.0, USB 3.1 Gen 1,HDMI 1.4b, Ethernet (RJ-45), headphone / microphone combo jack,multi-format SD media card reader Keyboard: English/Arabic Case color: Black Bottom: PC/ABS plastic Operating System: Windows 10 Pro Original Sticker or key license Sales Package Laptop, Battery, AC Adapter, User Guide Warranty: one year	

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3	Desktop type 1	Processor:Processor: 10th Generation Intel® Core™ i7-10700 (8-Core, 16MB Cache, 2.9GHz to 4.8GHz, 65W) Memory: 8GB DDR4-2666 Storage: 1TB SSD Graphic card : Intel 2GB dedicated or above (equivalent is acceptable) Graphic card ports : display,HDMI, VGA or compatible with screen ports Screen: 24 inch Maximum Graphic Resolution:1920 x 1200 (60Hz) analog input Screen Aspect Ratio: 16:09 Backlight Technology: W-LED Screen ports: Display, HDMI ,VGA, (Standard USB-A, Standard USB-B ((3.0 form))are additional) compatible with Graphic card ports Panel Type: IPS Network Adaptor: integrated (built-in) wireless network adapter as or equivalent to follow - 802.11ac 2.4/5 GHz wireless adapter Ports and Slots: 1. Power Button 2. Optional DVD-RW 3. 2 USB 2.0 Ports (1 with PowerShare) 4. USB 3.2 Gen 2 Type-A Port 5. Optional SD Slot 6. Universal Audio Jack 7. USB 3.2 Gen 2 Type-C Port Keyboard: English/Arabic Keyboard Connectivity Technology:wired: Wired Keyborad Interface:USB Keybooard Keys Qty: 104 Case color: Black Bottom: PC/ABS plastic Operating System: Windows 10 Pro Original Sticker or key license Sales Package Laptop: Case, Monitor, Keyboard, Mouse, all requirment cables Warranty: one year	
	Desktop type 2	Processor:Processor: Intel® Core™ i5-9500 (6 Cores/9MB/6T/3.0GHz to 4.4GHz/65W); Memory: 8GB DDR4-2666 Storage: 1TB SSD Graphic card : Intel 2GB dedicated or above (equivalent is acceptable) Graphic card ports : display,HDMI, VGA or compatible with screen ports Screen:22 inch or 20 inch Maximum Graphic Resolution:1920 x 1200 (60Hz) analog input Screen Aspect Ratio: 16:09 Backlight Technology: W-LED Screen ports: Display, HDMI ,VGA, (Standard USB-A, Standard USB-B ((3.0 form))are additional) compatible with Graphic card ports Panel Type: IPS Network Adaptor: integrated (built-in) wireless network adapter as or equivalent to follow - 802.11ac 2.4/5 GHz wireless adapter Ports and Slots: 1. Power Button 2. Optional DVD-RW 3. 2 USB 2.0 Ports (1 with PowerShare) 4. USB 3.2 Gen 2 Type-A Port 5. Optional SD Slot 6. Universal Audio Jack 7. USB 3.2 Gen 2 Type-C Port Keyboard: English/Arabic Keyboard Connectivity Technology:wired: Wired Keyborad Interface:USB Keybooard Keys Qty: 104 Case color: Black Bottom: PC/ABS plastic Operating System: Windows 10 Pro Original Sticker or key license Sales Package Laptop: Case, Monitor, Keyboard, Mouse, all requirment cables Warranty: one year	

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ITEM NO	Item	ITEM DESCRIPTIONS	REFERENCE PICTRUES
4	Desktop type 3	Processor:Processor: 9th Generation Intel® Core™ i3-9100 (4-Core, 6MB Cache, 3.6GHz to 4.2GHz, 65W) Memory: 8GB DDR4-2666 Storage: 1TB SSD Graphic card : Intel 2GB dedicated or above (equivalent is acceptable) Graphic card ports : display,HDMI, VGA or compatible with screen ports Screen: 19inch Maximum Graphic Resolution:1920 x 1200 (60Hz) analog input Screen Aspect Ratio: 16:09 Backlight Technology: W-LED Screen ports: Display, HDMI ,VGA, (Standard USB-A, Standard USB-B ((3.0 form))are additional) compatible with Graphic card ports Panel Type: IPS Network Adaptor: integrated (built-in) wireless network adapter as or equivalent to follow - 802.11ac 2.4/5 GHz wireless adapter Ports and Slots: 1. Power Button 2. Optional DVD-RW 3. 2 USB 2.0 Ports (1 with PowerShare) 4. USB 3.2 Gen 2 Type-A Port 5. Optional SD Slot 6. Universal Audio Jack 7. USB 3.2 Gen 2 Type-C Port Keyboard: English/Arabic Keyboard Connectivity Technology:wired: Wired Keyborad Interface:USB Keybooard Keys Qty: 104 Case color: Black Bottom: PC/ABS plastic Operating System: Windows 10 Pro Original Sticker or key license Sales Package Laptop: Case, Monitor, Keyboard, Mouse, all requirment cables Warranty: one year	

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ITEM NO	Item	ITEM DESCRIPTIONS	REFERENCE PICTRUES
6	A4 Printer	Printing Method: Monochrome laser beam printing Print Speed: Up to 18ppm mono (A4) Print quality: Up to 2400 x 600 dpi with Automatic Image Refinement First-Print-Out Time: Approx. 10 Seconds or less Paper input: Not less than 150-sheet WEIGHT Machine Only: not less than 5 kg Operating systems compatibility Win 8.1(32/64bit)/Win 8(32/64bit)/Win 7(32/64bit)/Win Vista(32/64bit)/XP(32/64bit)/Server 2012(32/64bit)/Server 2012 R2(64bit)/ Server 2008(32/64bit) / Server 2008 R2(64bit)/ 2003 Server(32/64bit)/ Mac OS X 10.6~ /Linux¹ /Citrix (FR2). Standard Interface Wired USB 2.0 High Speed.	
7	A3 Printer	Functions: Print, Scan, Copy Paper Sizes: A4, letter, B5, A3 Print Resolution: not less than 1200 x 1200 dpi Scan, Copy Resolution: not less than 600 x 600 dpi Scan and Print Speed: up to 20 ppm for A4 paper and 15 ppm for A3 paper Up to 2,000 sheet maximum paper capacity ,512MB RAM Ink type: Pigment Ink Palette: CMYK (cyan, magenta, yellow, black) Borderless Prints: up to 13 x 19" Automatic Duplexing Accessory AD and Input: up to 250-Sheet Input Tray / 35-Sheet ADF Copying specifications: Up to 99 copies from original. Magnification:Zoom: 25-400% USB 2.0 (Host)x1, USB 2.0 (Device), Ethernet, & Wi-Fi Connectivity Weight: starting at 12kg Compatible Operating System: Windows 2000/ XP/ Server 2003/ Vista/ Server 2008/ Windows 7.	
8	Projector	Projection System: DLP Resolution : XGA(1024x 768) Brightness (ANSI lumens): Upto 3600 Contrast Ratio (FOFO):20,000:1 Display Color: approx.1.07 Billion Colors Native Aspect Ratio: Native 4:3 (5 aspect ratio selectable) Light Source: Lamp LampSave: Upto 15000 hours Resolution Support; VGA(640 x 480) to WUXGA_RB(1920 x 1200) Light Source Wattage: 200W Speaker: 2W Interface: PC,Monitor out,S-Video in (Mini DIN 4pin),HDMI,USB Type Mini B ,Audio in (3.5mm Mini Jack), Audio out (3.5mm Mini Jack),RS232 (DB-9pin) ,IR Receiver HDTV Compatibility: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p Video Compatibility: NTSC, PAL, SECAM Dimensions (W x H x D)(mm):296 x 120 x 221 Projector screen: 2.2H x 2.0L supported by remote control Accessories (Standard): Porjector stand, HDMI cable, VGA cable. One year warranty	

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ITEM NO	Item	ITEM DESCRIPTIONS	REFERENCE PICTRUES
9	External Hard-drive	Capacity: 1TB Wight:Up to 250g Dimensions: Operating System : Microsoft Windows 7, Microsoft Windows 8, Microsoft Windows 10 ,Mac OS X 10.7 or later, Linux Kernel 2.6.31 or later Operating Voltage: 5V USB Type: USB 3.0 Connection Interface: USB Standard A One year warranty	
10	Camera	Resolution(MP):24 megapixel Image Resolution : 6 000 x 4 000 pixels Sensor class: APS-C CMOS sensor ISO range :100-25600 Viewfinder :Optical (11-point autofocus system) ShutterFlaps(1/sec): up to 5 frames per second Vedio format: Capable of 'Full HD' 1080/60p video supported by: Bluetooth or wifi for image transfer Built-in Flash: Yes LCD resolution: 921k-dot fixed LCD size; (3.0 inch) Fixed screen (not touch-sensitive) Battery rated:1,550 shots per charge (CIPA) USB Port: 2.0 6 months warranty	
11	Wifi router	Standards Wi-Fi 4:IEEE 802.11n/b/g 2.4 GHz WiFi Speeds: N300 2.4 GHz: 300 Mbps (802.11n) Working Modes: Router Mode,Access Point Mode,Range Extender Mode,WISP Mode Processor: Single-Core CPU Ethernet Ports: 1× 10/100 Mbps WAN Port/4× 10/100 Mbps LAN Ports Package Contents :Wi-Fi Router TL-WR840N, Power Adapter,RJ45 Ethernet Cable,and Quick Installation Guide Button:WPS/RESET Button System Requirements :Windows 2000/XP/Vista™, Windows 7, Windows 8, Windows 8.1, Windows 10 or Mac OS or Linux-based operating system	
12	UPS	Power: 1500 VA Voltage: 230 V Output power capacity: 980 Watts Alarms: UPS On , Low Battery , Short circuit, Overload , No load Shutdown Maximum height dimensions: 22 cm Maximum width dimensions: 17 cm Color: Black	

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ITEM NO	Item	ITEM DESCRIPTIONS	REFERENCE PICTRUES
13	SanDisk Extreme Portable SSD	Digital Storage Capacity1 TB Hardware InterfaceUSB 3.1 Type C Read Speed550 Megabytes Per Second Compatible DevicesDesktop	
B	Delivery		
1	All Items Should Be delivered to Water Directortes 5 locations (Duhok, Bardarash,Zakho,Sumel,Amedi Districts) base on the attached distribution list		
C.	Remarks and Conditions		
1	A Technician must be delegated from supplier to Install, and recheck after delivey time		
2	Standard of products should be compliant with (European standard or equivalent) standards, with good quality, all the products should be received and checked by related GIZ engineers for approval.		
3	Certification of origin for all offered items should be provided before delivery.		
4	At least- One -year warranty against any kind of laboring mistakes for all offered items		
5	Catalogues and tech. specifications should be provided with offers with marking the 13 requested Item. GIZ may ask for samples or extra information during the technical evaluation if there is doubt about technical specification		
6	All standard accessories for all offered items should be provided.		
7	The awarded company will be responsible to obtain all govermental approvals and coordination such as importing products from outside country if required.		
8	The bidder will be responsible for all costum fees and taxes at borders and any other transportations that need govermental fees if required.		

IT support to the (DoW,DoWOD, and Dos)/ division of the IT equipment

ITEM NO	Item	Quantity	Deliveribale Location
1	Laptop Core i7	4	1 DoW (IT department) 1 DoWOD (Contracting Departmen) 2 DoS (IT and Designin Departmtn)
2	Laptop Core i5	2	1 DoWOD (Media department,Zakho) 1 DoS (Planning department)
3	Desktop core i7	3	2 DoW (Director Office and Technical department,Zakho) 1 DoS (GIS department)
4	Desktop core i5	15	4 DoW (Personnel, Planning and follow up, Salaries, and Operation departmnes) 11 DoWO (IT, Planning and Follow-up, Design, Project, , Amedi, Berderash, and FaidaWTP departments)
5	Desktop Core i3	4	4 DoWOD (Administrative, Revenue , Account departments, Amedi, Berderash, and FaidaWTP departments)
6	Printer A4	5	3 DoW (Planning and follow-up, Technical and IT departments) 2 DoWOD (Administrative and Revenue) (Bardarash,Amedi)
7	Printer A3	7	2 DoW (Salaries and operating departments) DoS it will be shares among (GIS, IT, Planning, and Designing) 3 DoWOD (office Bardarash, Zakho, Faida WTP)
8	Projector	2	1 DoW 1 DoWOD (Duhok , IT department)
9	External Hard-drive	3	1 DoW (IT department) 2 DoWOD (Duhok , IT and Media departments)
10	Camera	1	1 DoWOD (Duhok)
11	Wifi Router	1	1 DoW (IT department)
12	UPS 1500va	6	6 DoW (Director office, Personnel, Planning and followup, Technical , salaries, and operating department)
13	SanDisk Exterme Portable SSD(1TB)	1	1 DoWOD (Duhok IT departments)

