

ANNEX 1: TECHNICAL SPECIFICATION

Project Number: 19.1859.8-002

Tender Reference #: 91180109

A. TECHNICAL SPECIFICATIONS

Item No	Name of Product	Specifications	Quantity	Reference Picture
Lot 1	IT Equipment			
1	Projector (Data show)	Supply new LED data show projector Viewsonic m1 or equivalent with all accessories including Power Cord, Remote Control, QSG, and USB-C Cable (1m). Projection system: 0.2"WVGA), (Native Resolution: 854x480), (Brightness: 250 LED Lumens), (Contrast Ratio: 120000:1), (Display Colour: 1.07 Billion Colours), (Light Source: LED), (Light source life: 30000), (Lamp Watt: RGB LED), (Lens: F=1.7, f=5.5mm), (Projection Offset: 100%+/-5%), (Throw Ratio: 1.2), (Image size: 24"-100"), (Throw Distance: 38" @1m), (Keystone: ±40° (Vertical)), (Optical Zoom: Fixed), (Audible Noise (Eco): 25dB), (Local storage: Total 16GB (12GB available storage)), (Resolution Support: VGA(640 x 480) to FullHD(1920 x 1080)), (HDTV Compatibility: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p), (Horizontal Frequency: 15h~135kHz), (Vertical Scan Rate: 23~120Hz), (Input: HDMI 1.4/ HDCP 1.4, Micro SD (32GB, SDHC), Internal Memory, USB type C (5V/ 2A)), (output: Audio out (3.5mm), Speaker 3W Cube x 2, USB type A (5V/ 1A)). Supplied to the delivery location. Samples must be approved by the supervisor engineer in advance.	2	
2	Interactive display 75 inch	Supply and install a 75" interactive display with the following specifications: Screen Size and Resolution: 75" 4K/3840*2160 / Display Area: 1652 x 930 mm / Continuous Touch Points: 20Points / Response Time ≤5ms / Touch Accuracy 1mm \ Palm Rejection Yes, Writing and non-writing hand / Pens Included Yes, 2pcs Aluminum Magnetic Stylus/ / Pen Type Battery-less pen / Pen Holder 2 pen slots / Pen Tip Diameter 2mm(Fine Pen Tip), 7mm(Thick Pen Tip) / Classroom Essential Apps Including Whiteboard, Annotate, Timer, Calculator, Split Screen, Record, Spinner, Screen / Capture, Screen Record, Screen Share, Browser, PDF reader, Media Player, Screen Cast, etc. / Compatibility Windows 7 to 11 / Operating System Android 11 / RAM Default 4G / Internal Storage Default 32G / HDMI in(rear) 2 x HDMI 2.0version / HDMI out(rear) Option(1 x HDMI 2.0version) / VGA in / PC / Audio(3.5mm) / USB-B 2.0 connectivity / USB-C 2.0 connectivity.	7	

		Supplied to the delivery locations in Faluja (5 Pcs) and Ramadi (2 Pcs) . Samples must be approved by the supervisor engineer in advance.		
3	Computer	Supply and install desktop computers according to the following specifications: - Processor: Intel Core i7-1255U (10C, 1.2/3.5GHz, 12MB Cache), - Memory: 8 GB DDR4, - Storage: 512GB SSD - Screen: not less than 21" size, 144 Hz - Graphics: NVIDIA GeForce GTX 1080 Ti (4GB) - WiFi: yes, - Operating System: DOS, - wireless Keyboard (QWERTY) and mouse: Logitech M170 or equivalent Supplied to the delivery location. Samples must be approved by the supervisor engineer in advance.	14	
4	Projector (Data show)	Supply new HD LED data show projector brand LG or equivalent with all wirings. Projection of up to 100 inches screen, brightness not less than 1500 ANSI Lumens, wireless connectivity, USB plug and play, minimum lamp life of 30,000 hours, Supplied to the delivery location. Samples must be approved by the supervisor engineer in advance.	1	
5	LED screen	Supply 43 inch LED screen Brand Samsung or equivalent, 4K, minimum 2 HDMI input ports. Supplied to the delivery location. Samples must be approved by the supervisor engineer in advance.	5	
6	Satellite receiver	Supply complete satellite receiver system including dish, HD receiver, wirings, LNB, HDMI cable, and all other accessories. Supplied to the delivery location. Samples must be approved by the supervisor engineer in advance.	1	

Lot 2	Electronic and Other Equipment			
1	Mixing console	Supply new mixing console Yamaha MG-12XU or equivalent with the following specifications: (12-Channel Mixing Console), (Max. 6 Mic / 12 Line Inputs (4 mono + 4 stereo)), (2 GROUP Buses + 1 Stereo Bus), (2 AUX (incl. FX)), ("D-PRE" mic preamps with an inverted Darlington circuit), (1-Knob compressors), (High-grade effects: SPX with 24 programs), (24-bit / 192kHz 2in / 2out USB Audio functions), (Works with the iPad (2 or later) through the Apple iPad Camera Connection Kit / Lightning to USB Camera Adapter), (Includes Cubase AI DAW software download version), (PAD switch on mono inputs), (+48V phantom power), (XLR balanced outputs), (Internal universal power supply for world-wide use), (Metal chassis), (Approx Dimensions(W×H×D): 308 mm x 118 mm x 422 mm), (Net Weight: 4.2 kg Approx.). Supplied to the delivery location. Samples must be approved by the supervisor engineer in advance.	1	
2	professional mixer	Supply professional USB mixer, Mackie proFX6v3 or equivalent with the following specifications: - High-resolution Recording via USB - Powerful FX Engine with Customizable Presets 48-volt Phantom Power - Headphone Output with Independent Volume Control Supplied to the delivery location. Assembled at delivery location or delivered completely assembled. Samples must be approved by the supervisor engineer in advance.	1	
3	Loudspeaker set	Supply and install 10" complete loudspeaker set, Mackie SRT210 or equivalent with the following specifications: 1600W Class-D amplifier with transparent system limiting and protection - Advanced Impulse DSP tuning - Horn for unmatched clarity and accuracy - built-in 4-channel digital mixer with Bluetooth® - Complete wireless control via the dedicated app - Wirelessly link 2 speakers together for music streaming applications plus control - Dual-angle pole mount plus angled design for use as a floor monitor Supplied to the delivery location. Assembled at delivery location or delivered completely assembled. Samples must be approved by the supervisor engineer in advance.	2	

4	Digital piano	Supply and install digital piano Kawai kDp 110 orequivalent with the following specifications: (Keyboard: Responsive Hammer Compact II action, 88 keys, Grade-weighted hammers, Matte key surfaces, Triple sensor hammer detection), (Pedal: Grand Feel Pedal System, Damper (with half-pedal support), Soft, Sostenuto), (Sound: Harmonic Imaging (HI), 88-key stereo sampling, SK-EX recording, 192 note maximum polyphony), (Resonance: Damper Resonance), (Adjustment: Virtual Technician (13 parameters, via Virtual Technician app), Touch Curve, Voicing, Damper Resonance, Key-off Effect, Hammer Delay, Topboard Simulation, Decay Time, Minimum Touch, Stretch Tuning, Temperament, Temperament Key, Half-Pedal Adjust, Soft Pedal Depth, Virtual Technician Smart Mode (10 presets)), (No. of Sounds: 14 voices), (Reverb: 5 types), (Brilliance: Yes), (Speakers: 11 cm x 2), (Output Power: 39 W (20 W x 2)), (Headphone Enhancements: Spatial Headphone Sound), (Key Cover: Sliding type), (Music Rest: Collapsible type), (Approx Size cm: 135 W * 40 D * 85 H [music rest flat]), (Approx weight: 38 kg), (Basic Functions: Dual, Four Hands, Transpose, Tuning), (Internal Recorder: total memory approximately 10,000 notes, 3 songs, 1 part), (Metronome: 1/4, 2/4, 3/4, 4/4, 5/4, 3/8, 6/8), (App Functions: Virtual Technician app (iPad), Sound Museum app (iPhone/iPad)), (Connector Jacks: Headphone 1 x 1/4", 1 x 1/8" Stereo jacks, MIDI IN, MIDI OUT, USB to Host), (Power Consumption: 10 W), (Power: Power cable, AC adaptor), (Bench: Fixed-height or height-adjustable bench), (Headphones: Headphone hook). Supplied to the delivery location. Assembled at delivery location or delivered completely assembled. Samples must be approved by the supervisor engineer in advance.	1	
5	10 m Cable	Supply Professional assembled balanced cable, BULK250LU10 or equivalent with 3P male cable mount - 3P female cable mount, metal housing and backshell connections/XLR3FVPRO - HPC225 - XLR3MVPRO, 10 m length. Supplied to the delivery location. Samples must be approved by the supervisor engineer in advance.	2	

6	Keyboard	Supply arranger keyboard Roland EA7 or equivalent, 61 keys (with velocity), with all accessories including AC Adaptor and Power Cord (for AC Adaptor). Dual Graphic LCD (160 x 160 dots x 2, with backlit), 2 x 10 cm speakers, Multisample Function, 128 MB for Sampling/Sample Import, sampling format 16-bit linear, 44.1 kHz, WAV. Supplied to the delivery location. Samples must be approved by the supervisor engineer in advance.	1	
7	Classical Guitar	Supply Classical Guitar, Yamaha C40 or equivalent, (Top Material Type: Spruce), (Body Material: Rosewood, Plastic), (Back Material Type: Mahogany), (Neck Material Type: Nato), (Fretboard Material Type: Rosewood), (Guitar Pickup Configuration: H), (String Material Type: Nylon), (Hand Orientation: Right). Supplied to the delivery location. Samples must be approved by the supervisor engineer in advance.	1	

B. Delivery

- Anbar/Ramadi and Faluja

C. Remarks and Condition

- All offered items must include standard accessories.
- A technician from the bidder must be assigned for assembly and post maintenance inspection.
- Catalogues/ pictures with detail specifications must be provided for offered items. Subject to physical verification and approval by GIZ.
- A minimum of 1-year warranty is required.
- Supplying, loading, unloading and transportation are included.
- The technical specifications are approximate minimum requirements.
- Bidders must specify delivery time in the bid form.
- The supplier may be requested for physical verification of items.
- Bidders can submit offers for one or both lots, clearly indicating their choice.
- GIZ reserves the right to accept bids for specific items or entire lots. GIZ is not obliged to purchase all listed item.
- Reference pictures are only to recognize and understand the items, not an indication for any model or brand.