

SCHEDULE OF REQUIREMENTS

Package-3 FIRE ALARM SYSTEM, DATA STRUCTURED CABLING SYSTEM, PABX SYSTEM, VOICE NETWORKING, PA SYSTEM, MULTIMEDIA, INTERPRETATION SYSTEM

INTERNATIONAL ENGINEERS

<i>Sr. No.</i>	<i>Description</i>	<i>Qty</i>	<i>Unit</i>	<i>Rate</i>	<i>Amount</i>
1.0	<u>FIRE ALARM SYSTEM</u>				
1.01	Supply, Laying and Connecting up of smoke/heat detector/manual call and sounder point wired with 2 core 1.5mm2 twisted pair ALU FOIL LSZH colour red cable make NORDEN(UK)/2M KAMBLO/CAVICAL or approved equivalent in and including 1" dia PVC pipe and all pipe accessories, complete in all respects.	3400	Meter		
1.02	Supply & Installation of Fire Panel upgraded to 2 loops by second Module, With Batteries. Connection of up to 254 elements (127 per loop), Remote operation by up to 3 Remote Keypads (via CAN or Ethernet), Auto-detection of modules and Plug-in of modules during operation Serial interface to Bosch or approved equivalent Voice Evacuation System (EVAC) make Bosch or approved equivalent or approved equivalent.	1	Each		
1.03	Supply & Installation of Smoke detector, optical Analog addressable detector with one optical sensor, manually and automatically addressable. Highly reliable and accurate thanks to Intelligent Signal Processing (ISP). Earliest detection of lightest smoke with dual optical versions (Dual-Ray technology). Monitors environment for electromagnetic influence for fast root-cause analysis with Base make Bosch or approved equivalent.	75	Each		
1.04	Supply and Installation of Heat detector Analog addressable heat detector with one thermal sensor, manually and automatically addressable. Highly reliable and accurate thanks to Intelligent Signal Processing (ISP). Earliest detection of lightest smoke with dual optical versions (Dual-Ray technology). Monitors environment for electromagnetic influence for fast root-cause analysis with base make Bosch or approved equivalent.	65	Each		

Sr. No.	Description	Qty	Unit	Rate	Amount
1.05	Manual Call Point Manual call point resettable surface mount, red resettable analog addressable manual call point for indoor use, direct alarm triggering (type A), surfacemounted, red Alarm triggering by pressing the black marking. Protection against injury through foil-labeled glass pane. LED display for triggered alarm or inspection evaluation. Individual call point identification. Call point query routines with evaluation and multiple transmission make Bosch or approved equivalent.	15	Each		
1.06	Supply & Installation of Base sounder indoor analog addressable base sounder for indoor use, red. Volume of up to 92.1 dB(A) Maximum current consumption of less than 3.85 mA. Up to 100 sounders per LSN loop. Immediate synchronization.32 different tone types can be selected (incl. DIN tone) WITH Optical Indicator,analog addressable strobe RedLow consumption thanks to LED-technology Synchronized flash rate of 1 Hz make Bosch or approved equivalent.	15	Each		
1.07	Testing and Commissioning for Fire Alarm System.	1	Job		
SUB TOTAL SECTION (1.0)					
2.0	<u>DATA STRUCTURED CABLING SYSTEM</u>				
	<u>Notes:-</u>				
	1) All components, materials and equipment shall meet or exceed the relevant Category requirements of EIA/TIA Standard 568A.				
	2) The commissioned/tested system shall be certified & warranted by the manufacturer.				
2.01	Supply, Laying & Connecting up of 4 pairs CAT-6 UTP cable make LEGRAND/3M/NORDEN or approved equivalent. from each data outlet to data cabinet for networking to be laid in and including 1" dia PVC pipe, complete in all respects.	3200	Meter		
2.02	Supply and Installation data outlet RJ-45 CAT-6 outlet on a single shutter face plate make LEGRAND/3M/NORDEN or				

Sr. No.	Description	Qty	Unit	Rate	Amount
	approved equivalent. to be installed in floor box, complete in all respects.	90	Each		
2.03	Supply, Installation & Connecting up of CAT-6 UTP patch panels including cable manager and CAT-6 jack's make LEGRAND/3M/NORDEN or approved equivalent. of following ports to be installed in data cabinets. i) 24 ports.	7	Each		
2.04	Supply, testing and commissioning of floor standing data cabinet size 42 U, complete with all accessories including, cable-management troughs, labels, label holders, cable guide, etc., lockable glass door including fan, shelves, 2 Nos. PDU/4x13A flat pin surge suppressed socket outlets and earth point etc., complete in all respects (Note:- Data switches 24 port shall also be installed in same cabinets).	1	Each		
2.05	Supply,testing and commissioning of lockable wall mounted cabinet size 12U suitable for patch panels and computer switch including PDU/4x13A flat pin switch socket outlet, complete with all respects.	7	Each		
2.06	Supply at site, Installation & testing and commissioning of 6 Core Fiber Optic Cable multimode 50/125 Micron for back bone connectivity to be installed on Cable Tray Complete in all respect make LEGRAND/NORDEN or approved equivalent.	250	Meter		
2.07	Supply at site, Installation & testing and commissioning of Optical Fiber Distribution Frame 06 Ports with Om3 SC Duplex Couplers, and Pigtails, Fiber Management Rings, Labels and Troughs Complete in all respect make LEGRAND/NORDEN or approved equivalent.	7	Each		
2.08	Supply at site, Installation & testing and commissioning of Optical Fiber Distribution Frame 24 Ports with Om3 SC Duplex Couplers, and Pigtails, Fiber Management				

Sr. No.	Description	Qty	Unit	Rate	Amount
	Rings, Labels and Toughs Complete in all respect make LEGRAND/NORDEN or approved equivalent.	1	Each		
2.09	Supply, Installation, Testing & Commissioning of Layer-3, Network Switch 1U Rack Mounted with 24 SFP Fiber Ports (Support 1.0 Giga), including cost of 14 Nos SFP Modules (1.0 Giga) MultiMode, Complete in all respect, as per drawing and specifications make HP/CISCO or approved equivalent.	1	Each		
2.10	Supply, Installation, Testing & Commissioning of Layer-2, Network Switch with 24 Giga Ethernet Ports with 02 Nos SFP Up-link (Support 1.0 Giga), including cost of 02 Nos 1.0 Giga SFP Modules, Complete in all respect, as per drawing and specifications make HP/CISCO or approved equivalent.	7	Each		
2.11	Supply, Installation, Testing & Commissioning of Layer-2, Network Switch with 08 Ports PoE (90 Watts) Giga Ethernet Ports with 02 Nos SFP Up-link (Support 1.0 Giga), including cost of 02 Nos 1.0 Giga SFP Modules, Complete in all respect, as per drawing and specifications make HP/CISCO/ DAHUA or approved equivalent.	4	Each		
2.12	Supply, Installation, Testing & Commissioning of Wireless Access Controller (OAW-4010) support 16 Access Points and Support 200 Clients, 2 SFP Ports, firewall for all access points with licences. builtin WIDS & WIPS with populated licences for all AP,S make HP/CISCO/AL-CATEL or approved equivalent, complete in all respects.	1	Each		
2.13	Supply, Installation & Connecting of Wireless Access Point (OAW-IAP205-RW) , 802.11/a/b/g/n/ac supported, 3x3 :3 mimo supported with 1.0 Gbps maximum data rate, dual band & dual radio, PoE . PoE + Supported, high gain 5DBI Dual				

Sr. No.	Description	Qty	Unit	Rate	Amount
	band omni directional antennas, autonomous and controller managed mode of operation, wall / ceiling mounted make Cisco, HP, Alcatel , complete in all respects.	4	Each		
2.14	Supply, Laying & Connecting up of Category-6, 4-pairs UTP cords make LEGRAND/3M/NORDEN or approved equivalent with 4-pairs modular plugs, as follows:-				
	i) 1.0m (patch cord).	90	Each		
	ii) 3.0m (drop cord).	90	Each		
2.15	Fluke Testing & certification/guarantees from the system supplier.	1	Job		
SUB TOTAL SECTION (2.0)					

3.0 **TELEPHONE EXCHANGE**

- 3.01 Supply, Installation, Testing & Commissioning of Hybrid Telephone Exchange having following Specifications. Make Siemens, Avaya Nortel or approved equivalent.
- 1- ISDN PRI Circuit 01
 - 32- Analog Trunk lines with CLI Facility
 - 10- IP Extension Licenses with CLI Facility
 - 110- Analog Extension Interfaces with CLI Facility
 - 10- IP Premium Desk phone with Power adaptor.
 - 1- Digital Premium Desk phone for Operator Console 01
 - Voice Mail (2 ports, 1 hour)
 - Automated Attendant
 - Call Logging Software (Vista 8770)
 - Battery Backup with Maintenance free Batteries for 2 Hours Autonomy
 - Installation and commissioning at Site
 - One year comprehensive warranty including spares and services for quoted items
 - Music on Hold (external calls only)
 - Call Forwarding, Call Pickup (Direct and Group)
 - Voice Mail, Speed Dialing, Call by name, Appointment Reminder
 - Call Back, Call Parking, Intrusion, Automatic Route Selection
 - Call Restriction, Call Routing, Time Ranges, Outgoing call duration classes

Sr. No.	Description	Qty	Unit	Rate	Amount
	• VoIP (SIP/H.323) Support • Set Locking, Call Broadcast on Executive Sets, Hunt Groups • Tele-Maintenance Access to remotely maintain the system	1	Each		
3.02	Supply & Installation of analogue/DTMF telephone set Make Siemens, Avaya Nortel or Equivalent.	85	Each		
3.03	Supply & Installation of digital telephone set make Siemens, Avaya, Nortel approved or equivalent.	15	Each		
SUB TOTAL SECTION (3.0)					
4.0	<u>VOICE NETWORKING SYSTEM</u>				
	<u>Notes:-</u>				
	1) All components, materials and equipment shall meet or exceed the relevant category requirements of EIA/TIA Standard 568A.				
	2) The commissioned/tested system shall be certified & warranted by the manufacturer.				
4.01	Supply, Laying & Connecting up of 4 pairs CAT-6 UTP cable make LEGRAND/3M/NORDEN or approved equivalent. from each data outlet to data cabinet for networking to be laid in and including 1" dia PVC pipe, complete in all respects.	3600	Meter		
4.02	Supply and Installation voice outlet RJ-45 CAT-6 outlet on a single shutter face plate make LEGRAND/3M/NORDEN or approved equivalent. to be installed in floor box, complete in all respects.	90	Each		
4.03	Supply and Installation voice outlet RJ-45 CAT-6 outlet on a single shutter face plate make LEGRAND/3M/NORDEN or approved equivalent to be installed in wall with 16 SWG sheet steel back box, complete in all respects.	6	Each		
4.04	Supply & Installation of Testing & Commissioning of following Telephone Main Distribution frame wall mounted,				

Sr. No.	Description	Qty	Unit	Rate	Amount
	made of M.S Sheet, Powder Coated having lockable door at front, patch guides, following Pair disconnection Modules, 10 pairs building entrance surge overvoltage and sneak current protector incoming & outgoing fuses with earthing cord including all accessories label holders etc to be installed in outdoor TJB. complete in all respect make NORDEN/LEGRAND or approved equivalent.				
	i) 150 pairs.	1	Each		
	ii) 10 pairs.	2	Each		
	iii) 30 pairs.	4	Each		
	iv) 20 pairs.	3	Each		
4.05	Same as item No. 4.04 above but 50 pair outdoor feeder pillar type IP-65 telephone junction box.	1	Each		
4.06	Supply, Laying & Connecting up of following size telephone cables 0.6mm solid conductor, polyethylene insulated, 2 insulated conductors twisted together and PVC sheathed of following pairs make PAKISTAN/SIEMENS/NORDEN/ PONY or approved equivalent.				
	i) 50 pairs cable.	90	Meter		
	ii) 15 pairs cable.	400	Meter		
	iii) 10 pairs cable.	250	Meter		
4.07	Supply, Laying & Connection up of self supported aerial armored PVC/PVC telephone cable make PAKISTAN/NORDAN/SIEMENS/PONY or approved equivalent from main T&T box to owner TJB in and including PVC pipe, complete in all respects.				
	i) 50 pairs.	60	Meter		
4.08	Fluke Testing & certification/guarantees from 3M.	1	Job		
SUB TOTAL SECTION (4.0)					
5.0	<u>MULTIMEDIA SYSTEM</u>				
5.01	Supply & Installation of INFOCUS (USA) LCD Multimedia Projector, model IN-5148HD, 0.8" P.Si Brightness 5000 Lumens, Resolution True XGA (1920x1080), Contrast 12000, Lap Life				

Sr. No.	Description	Qty	Unit	Rate	Amount
	5000 Hours (Eco Mode), Short Throw Lens, complete with standard accessories and double input.	1	Each		
5.02	Supply & Installation of ceiling Mount Kit electric operated for Multimedia Projector complete with high quality USA made 20 meter data cable (VGA), audio cable, power cable, A/V composite video cable cables length 10m complete with installation.	1	Each		
5.03	Supply & Installation of motorized Projection screen of size 8'x6'. Matt white screen surface with black color coating on rear side for sharp image. Complete with wall bracket, IR remote control & manual switching panel complete with installation.	1	Each		
5.04	Testing & Commissioning of Multimedia System including training, and training materials to staff.	1	Job		
SUB TOTAL SECTION (5.0)					
6.0	<u>PUBLIC ADDRESS SYSTEM</u>				
6.01	Supply, Laying and Connecting up of speaker wired with 2 core 1.5mm² twisted pair foil shielded LSZH colour white cable make NORDEN (UK)/CONTEX PLUS (UK) cable in and including PVC pipe, complete in all respects as per drawings and specifications.	2400	Meter		
6.02	Supply & Installation of Ceiling loudspeaker 6 W, circular ABS grille and frame, ceiling mounted by 2 integral spring arms, EN54-24 certified, white RAL 9010 make Bosch or approved equivalent.	70	Each		
6.03	Supply & Installation of Bosch or approved equivalent 30W Cabinet LoudSpeaker with High-fidelity music and speech reproduction, Selectable 8 ohm, 70 V and 100 V inputs, Compact yet robust ABS enclosure, Supplied with adjustable mounting bracket, Complies with international installation and safety regulations make Bosch or approved equivalent.	6	Each		

Sr. No.	Description	Qty	Unit	Rate	Amount
6.04	Supply & Installation of Plena All-in-One Unit can provide hours of uninterrupted music from USB or SD flash memory. The unit also has a built in AM/FM tuner with presets. To ensure for optimum performance, the All-in-One Unit has no moving parts, such as hard drives that can fail or wear out. It is compatible with SD, SDHC and MMC cards, and USB memory sticks. The unit is supplied with an IR remote control for controlling the music source. To enhance the performance of the public address system, the following optional products can be connected to the All-in-One Unit. One or more Call Stations for six-zones and all-call, so that calls can be made to any combination of zones or all zones. A maximum of six Call Stations can be connected in a loop-through arrangement to the same All-in-One Unit. , A Wall Panel for enabling control of the background music from a remote location; the Wall Panel even allows a microphone or portable music player to be connected to the system, An additional power amplifier, so that music can be heard in one set of zones while calls can be made to another set of zones. EMC: EN 55103- 1,EN 55103-2, EN 61000-3-2,EN 61000-3-3 make Bosch or approved equivalent.	1	Each		
6.05	Supply & Installation of emergency input from PABX. Socket for connection of PMB106/PMB106-G microphone stations (RJ45 connector, CAT5 SFTP cable). Balanced line output for connection with other amplifiers. Loudspeakers output terminal strip (50-70-100V/8Ω). Terminal strip for external DC power supply. Precedence and override terminal strip. "MUSIC ON HOLD" terminal strip. Activation threshold/level control of the warning signal (Chime). Individual Volume control (zone 1 to 6). Possibility to connect an external amplifier. Output for recorder. Selectable mains voltage (230/115V) model PA6240 make Bosch or approved equivalent.	1	Each		

Sr. No.	Description	Qty	Unit	Rate	Amount
6.06	Supply & Installation of 480 Watt Power Amplifier in a 3U high 19"housing, EN 54-16 certified and EN 60849 compliant, 70 V / 100 V and 8 ohm outputs, Dual inputs with priority switching, 100 V input for slave operation on 100 V speaker line make Bosch or approved equivalent.	2	Each		
6.07	Supply & Installation of The Plena BGM source unit WITH the ideal high-quality. source for background music (BGM) in public address systems. The unit consists of a DVD/CD-player and a digitally controlled FM/AM tuner in a compact 2U-high, 19" housing make Bosch or approved equivalent.	1	Each		
6.08	Supply & Installation of Voice Alarm controller that has two BGM source inputs and a mic/line input with configurable priority, speech filter,phantom power and selectable VOX activation. A total of 16 priority levels can be specified for microphone, call stations and trigger inputs for optimum system flexibility. The powerful 240 W output section has six transformer-isolated 100 V constant-voltage outputs for driving 100 V loudspeakers in six separate zones.The 100 V-technique reduces line losses on longer distances and provides easy parallel connection of multiple loudspeakers. All zones may be individually selected from the front panel, and the BGM output level in each zone can be individually set in six steps. The controller to support A/B wiring make Bosch or approved equivalent.	1	Each		
6.09	Supply & Installation Cordless Hand held Microphone consisting of of 193 selectable UHF channels, PLL synthesized technology, LCD with battery status and frequency indication, Lock unction, Approximately 15 hours operation on alkaline batteries alongwith UHF wireless microphone receiver, true diversity for stable reception, PLL synthesized technology, table top and 19" rack mountable. Frequency range: 722-				

Sr. No.	Description	Qty	Unit	Rate	Amount
	746 MHz, 193 selectable UHF channels make Bosch or approved equivalent.	4	Set		
6.10	Testing & Commissioning of Public Address System.	1	Job		
SUB TOTAL SECTION (6.0)					

7.0 **INTERPRETATION SYSTEM**

Supply Installation testing commissioning of interpretation system of 08 Channels. The system shall provide interference-free, high-quality audio distribution, which shall enable delegates to listen to language interpretations at conferences. It shall avoid disturbance from lighting systems by operating in the 2 to 8 MHz frequency band. It shall provide high-quality audio signals by employing advanced digital technology to minimize transmission errors and increase the signal-to-noise ratio. It shall enable the transmission of up to 32 separate channels. It shall also be possible to transmit a lesser number of higher-quality audio signals by 'combining' channels. The transmitter shall be the central element in the system. It shall accept inputs from either analogue or digital sources, modulate these signals on to carrier waves, and then transmit the waves to infra-red radiators located elsewhere in the conference venue.

- 7.01 Supply Installation testing commissioning of Bosch or approved equivalent 08-Channel Transmitter. Which Can distribute a maximum of 4, 8, 16 or 32 audio channels. Can be used with various Conference Systems. Flexible configuration of channels and channel quality modes for efficient distribution. Configuration of transmitter and system via a display and one single rotary push button or approved equivalent. Auxiliary mode for distribution of music to all channels during a break. Slave mode for distribution of signals from another transmitter allows multiple rooms to be used. Test mode which produces a different frequency tone for each input/channel, with the tone

Sr. No.	Description	Qty	Unit	Rate	Amount
	gradually rising as the channels are stepped through. Adjustable sensitivity for each input to enable fine tuning of audio levels. Built-in mini infrared radiator for audio monitoring. Radiator and system status indication via display. Each transmitter can be assigned a unique name by the installer for easy identification in a multitransmitter system. Each audio channel can also be assigned a unique name by the installer. These names can be selected from a list of options or entered manually. Automatic distribution of emergency messages to all channels. Automatic standby/on functionAutomatic synchronization to the number of channels in use in a DCN system. Automatic synchronization of language names in use in a DCN Next Generation system. Universal mains power facility allows use worldwide. Stylish 19" (2U) housing for tabletop use or rack mounting. Handgrips for easy transportation.	1	Each		
7.02	Supply Installation testing commissioning of Bosch or approved equivalent INTERPRETER DESK Short Neck Microphone Low susceptibility to mobile phone interference Ergonomic design with features for visually impaired Up to 31 interpretation channels and the original floor language with an audio bandwidth of 20 kHz. A graphic LCD with backlighting for bright information display in dark conditions 5 pre-select keys for relay languages with activation indication at the display.	5	Each		
7.03	Supply Installation testing commissioning of Bosch or approved equivalent POCKET RECEIVERS Specially-designed IC for maximum performance and a long battery life time. Recharging electronics integrated in the chip, ensuring optimum charging performance. 2-digit LCD display with battery and reception status indication.Number of available channels is always the same as the number of channels in use by the system, eliminating the need to scroll through unused channels				

Sr. No.	Description	Qty	Unit	Rate	Amount
	or approved equivalent. Audio signal automatically muted when signal is too low, ensuring that the user receives only high quality audio. Can be used with disposable batteries (2x AA alkaline batteries, not included) or environmentally-friendly NiMH rechargeable battery pack LBB 4550/00, (not included). No power used when headphone is disconnected. Clip for easy wearing. Measurement mode for easy checking of radiator coverage. Attractive and stylish design. Up to 200 hours operation with alkaline batteries. Up to 75 hours operation with battery pack. Recharges from empty to full capacity within 1 hour and 45 minute.	60	Each		
7.04	Supply Installation testing commissioning of 56-Slot Charger case for receivers Power Consumption: (Standby) 17 W Bosch or approved equivalent LBB4560/00 or equivalent.	2	Each		
7.05	Supply Installation testing commissioning of Bosch or approved equivalent MEDIUM POWER RADIATOR covers up to 1300 m2. Automatic gain control ensures the IREDs (infrared emitting diodes) function with maximum efficiency. Power output selection for efficiency and economy with Safety Eye. Universal mains power facility allows use worldwide. No fan - cooled by convection - resulting in quieter operation and less moving parts to wear out. LED indicators for radiator status checking. Communication between radiator and transmitter for easy checking by the operator. Automatically switches on when transmitter is switched on and vice versa. Automatic cable equalization ensures maximum transmission efficiency with different quality of cables. Automatic cable termination simplifies installation. Temperature protection circuitry automatically switches radiator from full- to half- power if the temperature becomes too high. Adjustable radiator angle ensures maximum coverage. IREDs protected by a cover plate, making the units easy to				

<i>Sr. No.</i>	<i>Description</i>	<i>Qty</i>	<i>Unit</i>	<i>Rate</i>	<i>Amount</i>
	maintain and clean. Attractive and stylish design or approved equivalent.	4	Each		
7.06	Testing & Commissioning of Interpretation System.	1	Job		
SUB TOTAL SECTION (7.0)					
Total Rs:-					



The Federation of Pakistan
Chambers of Commerce & Industry

ISLAMABAD

BIDDING DOCUMENTS

For

NATIONAL COMPETITIVE BIDDING

PACKAGE-3

**FOR PROCUREMENT FIRE ALARM SYSTEM, DATA
STRUCTURED CABLING SYSTEM, PABX SYSTEM, VOICE
NETWORKING, PA SYSTEM, MULTIMEDIA,
INTERPRETATION SYSTEM**

Price: Rs.5,000/-



**The Federation of Pakistan
Chambers of Commerce & Industry**

***Invitation for Bids/Quotations For Package-3
(For procurement of Fire Alarm System, Data Structured Cabling System,
PABX System, Voice Networking, PA System, Multimedia, Interpretation
System)***

Bid Ref No. FPCCI 01/2020

1. Federation of Pakistan Chamber of Commerce and Industry (FPCCI), Islamabad invites sealed bids from the original manufacturers/ authorized distributors in Pakistan, registered with Income Tax & Sales Tax Dept. for supply and installation of Fire Alarm System, Data Structured Cabling System, PABX System, Voice Networking, PA system, Multimedia, and Interpretation System.
2. Interested bidders may obtain bidding documents, containing detailed terms and conditions & specifications of required item from the office of the **Secretary General, the Federation of Pakistan Chambers of Commerce & Industry, Federation House, Block-5, Main Clifton, Karachi Ph.:- 021-35873691-94**, on submission of written application. Price of the bidding documents is Rs. 5,000/- (PO/DD favoring FPCCI nonrefundable). The procurement shall be completed in accordance with PPRA Rules 2004. The advertisement & bidding documents are also available on www.fpcci.org.pk free of cost. However, the applicants must register with FPCCI for any future communication.
3. A single package for each containing Technical and Financial proposal, in separate envelopes, duly signed, stamped, sealed and in complete conformity with tender document should reach **the Federation of Pakistan Chambers of Commerce & Industry, Federation House, Block-5, Main Clifton, Karachi Ph.:- 021-35873691-94 on or before Tuesday 07th July, 2020, at 11:00 am**. Tenders will be opened at 1200 noon on the same day in the presence of bidders/representatives who choose to attend, at FPCCI Head Office, Karachi. Late tenders will be rejected and returned unopened to bidders.
4. Bidders are advised to visit the site for physical inspection of the building /site etc. FPCCI staff can assist.
5. Bidders must ensure that all the required documents indicated in the Bidding Documents are submitted with the bid without fail. Incomplete bids or bids received without undertakings, valid documentary evidence, supporting documents or are not sealed, signed or stamped, late or submitted by other than specified mode will not be considered. Single stage two envelope procedure of open competitive Bidding will be followed.

6. Income/sales tax registration certificate, PEC certificate and other documents as mentioned in bidding documents must accompany the bids. Taxes will be deducted as per Government of Pakistan rules.

7. The bi security at the rate of 2% of the total Quoted value in the shape of call deposit or a bank guarantee issued by a scheduled bank in the name of the Federation of Pakistan Chambers of Commerce & Industry (FPCCI), Karachi must accompany with the offer Tender.

8. The bidder must submit followings:-

- i) Copy of enrollment with PEC and renewed for the year 2020 in the required category (CAT-6 in the field of EE-01 & EE-07, EE-09).
- ii) **List of complete permanent business management, finance management & engineering/technical staff with their complete bio data and proof of stay with the firm.**
- iii) Year of establishment supported by certificate from registrar of the firms.
- iv) Details of similar projects completed by the firm/contractor in last 05 years showing location, contact details, purchase orders and approximate cost of project which will be verified from individual client.

Secretary General

The Federation of Pakistan Chambers of Commerce & Industry

Federation House, Block-5, Main Clifton, Karachi

Tel: 021-35873691-4



**The Federation of Pakistan
Chambers of Commerce & Industry**

BIDDING DOCUMENTS

For

NATIONAL COMPETITIVE BIDDING

***(For procurement of Fire Alarm System, Data Structured
Cabling System, PABX System, Voice Networking,
Audio/Video & Automation System, PA System, Multimedia,
Interpretation System)***

Part One

- I. Instructions to Bidders (ITB)
- II. Bid Data Sheet (BDS)

Part Two

- I. Schedule of Requirements
- II. Technical Specifications
- III. Standard Forms

Part Three

- I. General Conditions of Contract (GCC)
- II. Special Conditions of Contract (SCC)

**FEDERATION OF PAKISTAN CHAMBER OF COMMERCE AND INDUSTRY
ISLAMABAD**

July, 2020

Part One

Section I. Instructions to Bidders (ITB)

Instructions to Bidders (ITB)

A. Introduction

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| 1. Name of Client and address | 1.1 Federation of Pakistan Chamber of Commerce and Industry (FPCCI), Sector G-8/1, Islamabad |
| 2. Eligible Criteria of Bidders | <p>Bidder Must meet following Eligibility Criteria:</p> <ul style="list-style-type: none">2.1 General Sales Tax Registered.2.2 Bidder must have verifiable presence in Federal and Lahore.2.3 Active National Tax Number Registered.2.4 The bidder must submit.<ul style="list-style-type: none">i) Company's audit report for last three years.ii) Last three years tax return.iii) Bank statements of last three years.2.5 Registered with PEC in category 6 with EE01, EE07 & EE09 Code of specialization.2.6 The bidder should be ISO 9001:2015 certified.2.7 Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the Government of Pakistan in accordance with ITB Clause 31.1.2.8 The bidder must have membership with national fire protection association (USA).2.9 Bidder must have technical strength of at least 02 (Two) OEM Certified and trained resources to be able to carry out the maintenance, repair and spare-parts stocking obligation.2.10 Bidder shall not be black listed or in litigation with any Government Department. |
| 3. Cost of Bidding | 3.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Client named in the Bid Data Sheet, hereinafter referred to as "the Client," will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process. |

B. The Bidding Documents

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| 4. Content of Bidding Documents | <p>4.1 The Goods & services required, bidding procedures, and contract terms are prescribed in the bidding documents. In addition to the Invitation for Bids, the bidding documents include:</p> <ul style="list-style-type: none">(a) Instructions to Bidders (ITB)(b) Bid Data Sheet (BDS)(c) General Conditions of Contract (GCC)(d) Special Conditions of Contract (SCC)(e) Schedule of Requirements(f) Technical Specifications(g) Bid Form and Price Schedules(h) Contract Form |
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- 4.2 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required in the bidding documents or to submit a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in the rejection of the bid.

5. Clarification of Bidding Documents

- 5.1 A prospective Bidder requiring any clarification of the bidding documents may notify the Client in writing at the Client's address indicated in Bid Data Sheet (BDS). The Client will respond in writing to any request for clarification of the bidding documents which it receives no later than five (05) days prior to the deadline for the submission of bids prescribed in the Bid Data Sheet. Written copies of the Client's response (including an explanation of the query but without identifying the source of inquiry) will be sent to all prospective bidders that have received the bidding documents, directly from the client.

6. Amendment of Bidding Documents

- 6.1 At any time prior to the deadline for submission of bids, the Client, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, may modify the bidding documents by amendment, without substantially changing nature of procurement.
- 6.2 All bidders that have purchased the bidding documents, from the Client, will be notified of the amendment in writing which will be binding on them.
- 6.3 In order to allow prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the Client, at its discretion, may extend the deadline for the submission of bids.

C. Preparation of Bids and Bidding Procedure

7. Language of Bid

- 7.1 The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Client, shall be written in the language specified in the Bid Data Sheet.

8. Documents Comprising the Bid

- 8.1 The bid prepared by the Bidder shall comprise the following components:
- (a) a Bid Form, specifications and a Price Schedule completed in accordance with ITB Clauses 9, 10, and 11; and
 - (b) bid security furnished in accordance with ITB Clause 13.
 - (c) Single stage one envelope bidding procedure will be adopted.

9. Bid Form

- 9.1 The Bidder shall complete the Bid Form and the appropriate Price Schedule furnished in the bidding documents, indicating the Goods to

be supplied& services to be carried out, a brief description of the Goods+ services, quantity, and prices.

10. Bid Prices

- 10.1 The Bidder shall indicate on the appropriate Price Schedule the unit prices (where applicable) and total bid price of the Goods it proposes to supply under the contract.
- 10.2 Prices indicated on the Price Schedule shall be delivered duty paid (DDP) i.e. inclusive of all applicable taxes, prices. The price of other (incidental) services, if any, listed in the Bid Data Sheet will be entered separately.
- 10.4 The Bidder's separation of price components in accordance with ITB Clause 10.2 above will be solely for the purpose of facilitating the comparison of bids by the Client and will not in any way limit the Client's right to contract on any of the terms offered.
- 10.5 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account, unless otherwise specified in the Bid Data Sheet. A bid submitted with an adjustable price quotation will be treated as nonresponsive and will be rejected two or more prices for a single item will be treated as non-responsive.

11. Bid Currencies

- 11.1 Prices shall be quoted in Pak Rupees unless otherwise specified in the Bid Data Sheet.

**12. Documents
Establishing
Bidder's
Eligibility and
Qualification**

- 12.1 Pursuant to ITB Clause 8, the Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the contract if its bid is accepted.
- 12.2 The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Client's satisfaction:
- (a) The Bidder meets the qualification criteria listed in the Bid Data Sheet.

**13.
(i) Bid Security
(ii) Performance
Guaranty**

- 13.1 Pursuant to ITB Clause 8, the Bidder shall furnish, as part of its bid, a bid security in the amount specified in the Bid Data Sheet.
- 13.2 The bid security is required to protect the Client against the risk of Bidder's conduct which would warrant the security's forfeiture, pursuant to ITB Clause 13.7.
- 13.3 The bid security shall be in Pak. Rupees and shall be in one of the following forms:
- (a) Irrevocable en-cashable call-deposit/bank draft/pay order in name

of the Client given under ITB clause 13.1 of Bid Data Sheet.

13.4 Any bid not secured in accordance with ITB Clauses 13.1 and 13.3 of the BDS will be rejected by the Client as nonresponsive, pursuant to ITB Clause 22.

13.5 Unsuccessful bidders' bid security will be discharged or returned as promptly as possible but not later than thirty (30) days after the expiration of the period of bid validity prescribed by the Client pursuant to ITB Clause 14.

13.6 The bid security may be forfeited:

(a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form; or

(b) in the case of a successful Bidder, if the Bidder fails:

(i) to sign the contract in accordance with ITB Clause 30;

(ii) Fails to deliver the Goods within stipulated time period as per Schedule of Requirements: Section: I – Part Two.

13.7 10% of the total quoted price shall be treated as performance guarantee for the whole period of warranty.

14. Period of Validity of Bids

14.1 Bids shall remain valid for the period specified in the Bid Data Sheet after the date of bid opening prescribed by the Client, pursuant to ITB Clause 20. A bid valid for a shorter period shall be rejected by the Client as nonresponsive.

14.2 In exceptional circumstances, the Client may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The bid security provided under ITB Clause 13 shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid.

15. Format and Signing of Bid

15.1 The Bidder shall prepare an original and the number of copies of the bid indicated in the Bid Data Sheet, clearly marking each "ORIGINAL BID" and "COPY OF BID," as appropriate. In the event of any discrepancy between them, the original shall govern.

15.2 The original and the copy or copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the contract. All pages of the bid, except for unamended printed literature, shall be initialed by the person or persons signing the bid.

- 15.3 Any interlineations, erasures, or overwriting shall not be valid even if they are initialed by the person or persons signing the bid. The bid should be duly binded and each page signed/stamped by authorized person.

D. Submission of Bids

16. Sealing and Marking of Bids

- 16.1 The Bidder shall seal the original and each copy of the bid in separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY." The envelopes shall then be sealed in an outer envelope.

- 16.2 The inner and outer envelopes shall:

- (a) be addressed to the Client at the address given in the Bid Data Sheet; and
- (b) bear the name indicated in the Bid Data Sheet, the Invitation for Bids title and number indicated in the Bid Data Sheet, and a statement: "DO NOT OPEN BEFORE," to be completed with the time and the date specified in the Bid Data Sheet, pursuant to ITB Clause 20.

- 16.3 The inner envelopes shall also indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared "late".

- 16.4 If the outer envelope is not sealed and marked as required by ITB Clause 16.2, the Client will assume no responsibility for the bid's misplacement or premature opening.

17. Deadline for Submission of Bids

- 17.1 Bids must be received by the Client at the address specified in the Bid Data Sheet no later than the time and date specified in the Bid Data Sheet.

- 17.2 The Client may, at its discretion, extend this deadline for the submission of bids by amending the bidding documents in accordance with ITB Clause 6, in which case all rights and obligations of the Client and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

18. Late Bids

- 18.1 Any bid received by the Client after the deadline for submission of bids prescribed by the Client pursuant to ITB Clause 17 will be rejected and returned unopened to the Bidder.

19. Modification and Withdrawal of Bids

- 19.1 The Bidder may modify or withdraw its bid after the bid's submission, provided that written notice of the modification, including substitution or withdrawal of the bids, is received by the Client prior

to the deadline prescribed for submission of bids.

19.2 The Bidder's modification or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of ITB Clause 16. A withdrawal notice may also be sent by cable, but followed by a signed confirmation copy, postmarked not later than the deadline for submission of bids.

19.3 No bid may be modified after the deadline for submission of bids.

19.4 No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Form. Withdrawal of a bid during this interval may result in the Bidder's forfeiture of its bid security, pursuant to the ITB Clause 13.7.

E. Opening and Evaluation of Bids

20. Opening of Bids by the Client

20.1 The Client will open all bids in the presence of bidders' representatives who choose to attend, at the time, on the date, and at the place specified in the Bid Data Sheet. The bidders' representatives who are present shall sign a register/ attendance sheet evidencing their attendance.

20.2 The bidders' names, bid modifications or withdrawals, bid prices, discounts, and the presence or absence of requisite bid security and such other details as the Client, at its discretion, may consider appropriate, will be announced at the opening. No bid shall be rejected at bid opening, except for late bids, which shall be returned unopened to the Bidder pursuant to ITB Clause 18.

20.3 Bids (and modifications sent pursuant to ITB Clause 19.2) that are not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances. Withdrawn bids will be returned unopened to the bidders.

20.4 The Client will prepare minutes of the bid opening.

21. Clarification of Bids

21.1 During evaluation of the bids, the Client may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted.

22. Preliminary Examination

22.1 The Client will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

- 22.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the Contractor does not accept the correction of the errors, its bid will be rejected, and its bid security may be forfeited. If there is a discrepancy between words and figures, the amount in words will prevail.
- 22.3 The Client may waive any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.
- 22.4 Prior to the detailed evaluation, pursuant to ITB Clause 23 the Client will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from, or objections or reservations to critical provisions, **such as** those concerning Bid Security (ITB Clause 13) and Taxes and Duties will be deemed to be a material deviation. The Client's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- 22.5 If a bid is not substantially responsive, it will be rejected by the Client and may not subsequently be made responsive by the Bidder by correction of the nonconformity.

23. Criteria for Evaluation of Technical Proposal

23.1 General

The Bidder shall be liable to post qualification for being "Eligible" for participating in the Bidding Process for the **"Supply and Installation of Fire Alarm System, Data Structured Cabling System, PABX System, Voice Networking, PA System, Multimedia, Interpretation System"** of The Federation of Pakistan Chamber of Commerce and Industry (FPCCI) which as mandated under Government of Pakistan PPRA Rule 2004 vide Rule No. 36 (b) shall be based upon single stage "Two Envelope Bidding Procedure.

23.2 Mandatory Requirements

The technical proposal of the Bidders shall be evaluated for the Post-qualification of bidders for construction of the subject project basing as the criteria given in succeeding paras regarding the Applicant's Basis Eligibility, Work Experience, Personnel Capabilities, Registration/Licenses and Financial Soundness. Sub-contractor's experience and resources shall not be taken into account in determining the applicant's compliance with the qualifying criteria.

For consideration of the Technical Proposals submitted by the bidders, following are the mandatory requirements.

- i) License of the bidder with Pakistan Engineering Council (PEC), valid up to June, 30th 2020 or later in Category and above and having specialization code of Category-6 in the field of EE-01, EE-07, EE-09.
- ii) Bid security as mentioned in Instruction to Bidders Clause ITB 13.1.
- iii) Documentary evidence of the year of establishment of the bidding firm. Must have minimum 10 years' experience as per Instruction to Bidders Clause ITB 12.2.

Further evaluation of only those bidders will be done who have cleared above mandatory requirements. Bids of applicants who do not have the required PEC License and/or have not provided the above mandatory documents, will be declared as non-responsive, and will not be proceed further & their financial bids will be returned un-opened.

23.3 Weightage/ Marks

The weightage/distribution of the marks shall be as given below:-

i)	Registrations/Licenses.	30
ii)	Work Experience.	25
ii)	Personnel Capabilities.	20
iii)	Financial Capabilities.	25

Total		100

23.4 Joint Venture (JV)

A Joint Venture submitting a bid must comply with the following requirements.

- a) Following are minimum qualification requirement.
 - i) The lead partner shall obtain not less than 40 percent of maximum marks allocated under each head of the qualification criteria set forth in Para 4 to 7 heretofore.
 - ii) Additionally, the joint venture must collectively satisfy the criteria of Para-2 i.e. secure a total of 60 marks for which purpose the relevant figures of each of the member shall be added together to arrive at the JV's total capacity.

Bid shall be signed by all members in the JV so as to legally bind all partners jointly and severally and bid shall be submitted with a copy of JV agreement providing the joint and several liabilities with respect to the contract.

24. Evaluation and Comparison of Bids

- 24.1 The Client will evaluate and compare the bids which have been determined to be substantially responsive, pursuant to ITB Clause 22.
- 24.2 The Client's evaluation of a bid, further elaborated under Bid Data Sheet, will be on delivered duty paid (DDP) price inclusive of prevailing duties and transportation charges, and it will exclude any allowance for price adjustment during the period of execution of the contract, if provided in the bid.

- 25. Contacting the Client**
- 25.1 Subject to ITB Clause 21, no Bidder shall contact the Client on any matter relating to its bid, from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Client, it should do so in writing.
- 25.2 Any effort by a Bidder to influence the Client in its decisions on bid evaluation, bid comparison, or contract award may result in the rejection of the Bidder's bid.

F. Award of Contract

- 26. Qualification**
- 26.1 In the absence of prequalification, the Client will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily.
- 26.2 The determination will take into account the Bidder's compliance with the qualification criteria defined in the Bid Data Sheet.
- 27. Award Criteria**
- 27.1 Subject to ITB Clause 28, the Client will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily.
- 28. Client's Right to Vary Quantities at Time of Award**
- 28.1 The Client reserves the right at the time of contract award to increase or decrease, by the percentage indicated in the Bid Data Sheet, the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.
- 29. Client's Right to Accept any Bid and to Reject any or All Bids**
- 29.1 The Client reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to the affected Bidder or bidders. The Client will inform the affected Bidder or bidders of the grounds for the Client's action, if so requested, but the Client shall not be required to justify the grounds.
- 30. Notification of Award**
- 30.1 Prior to the expiration of the period of bid validity and subject to ITB Clause 29.3, the Client will notify the successful Bidder in writing by registered letter or by cable, to be confirmed in writing by registered letter, that its bid has been accepted.
- 30.2 The notification of award under ITB 29.1 will constitute the formation of the Contract.
- 30.3 The Client shall announce the results of bid evaluation in the form of a report giving justification for acceptance or rejection of bids at least ten days prior to the award of contract.

31. Signing of Contract

31.1 At the same time as the Client notifies the successful Bidder that its bid has been accepted, the Client will send the Bidder the Contract Form provided in the bidding documents, incorporating all agreements between the parties.

31.2 Within fifteen (15) days of receipt of the Contract Form, the successful Bidder shall sign and date the contract and return it to the Client.

32. Corrupt or Fraudulent Practices

32.1 The Client observes the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Client:

(a) defines, for the purposes of this provision, the terms set forth below as follows:

“corrupt and fraudulent practices” includes the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official or the Contractor or contractor in the procurement process or in contract execution to the detriment of the procuring agencies; or misrepresentation of facts in order to influence a procurement process or the execution of a contract, collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the procuring agencies of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty

(b) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

(c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a PPRA financed contract if it at any time determines that the firm has engaged in corrupt and fraudulent practices in competing for, or in executing, a PPRA financed contract.

33. Tender Cost

33.1 The Tenderer shall bear all costs / expenses associated with the preparation and submission of the Tender(s) and the FPCCI shall in no case be responsible / liable for those costs / expenses.

34.Submission / Preparation

of Tender.

- 34.1 The Tender besides Firm/Company profile, shall submit the proposal two parts i.e. **the Technical Proposal and the Financial Proposal.**
- 34.2 Technical Proposal shall comprise the following, **without quoting the price:**
- (a) Undertaking (All terms & conditions and qualifications listed anywhere in this tender document have been satisfactorily vetted).
 - (b) Certificate of Company/Firm under the laws of Pakistan.
 - (c) Covering letter duly signed and stamped by authorized representative.
 - (d) Technical Brochures / Literature/certificate.
 - (e) Submission of undertaking on legal valid and attested paper that the firm is not blacklisted by any of Provincial or Government Department, Agency, Organization or body or Private Sector Organization anywhere in Pakistan
 - (f) Valid Registration Certificate for Income Tax & Sales Tax.
 - (g) Income Tax & Sales Tax Returns for the last three years.
 - (h) All the other information as detailed in para 13.2 and 13.3 the tender document.
- 34.3 The Financial Proposal shall comprise the following:
- (a) BOQ Form
 - (b) This is made obligatory to affix authorized signatures official seal on all original documents, copies, certificates, literature, drawings, letters, forms and all relevant part of the bids submitted by the tenderer.
- stamp
Federal
autonomous
anywhere in Pakistan
- (3) tax
- in
- with
brochures, l
documents as

35.Tender Validity

- 35.1 The Tender shall have a minimum validity period of **three months** from the last date for submission of the Tender.

Section II.

Bid Data Sheet (BDS)

Bid Data Sheet

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB): Section I. Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

A. The Bidding Document		
ITB 7.1	Language of the Bid	English

B. Preparation of Bids		
ITB 10.2	The price quoted shall be	Pak Rupees inclusive of all applicable taxes & transportation charges.
ITB 10.5	The price shall be	1. Best / final / fixed and valid until completion of all delivery i.e. not subject to variation / escalation and price should remain valid for 6 months; 2. Fixed and must include the Income & General Sales Taxes (GST) and other taxes and duties, where applicable as per law. If there is no mention of taxes, the offered / quoted price(s) will be considered as inclusive of all prevailing taxes / duties. 3. Includes all charges up to the delivery point 4. Where no prices are entered against any item(s), the price of that item shall be deemed free of charge, and no separate payment shall be made for that item(s).
ITB 12.2 (a)	Qualification requirements.	1. The bidder must be a registered/incorporated company/firm in Pakistan and have at least five (5) years of experience in manufacturing or supplying and installing similar items as requisitioned in the bid. 2. Must be registered with Tax Authorities as per prevailing tax rules (Only those companies which are validly registered with sales tax and income tax departments can participate) 3. Has valid Registration of General Sales Tax (GST), National Tax Number (NTN) & PEC certificate. 4. Has submitted bid for all works required. 5. Has not been blacklisted by any of Provincial or Federal Government Department, Agency, Organization or autonomous body anywhere in Pakistan. (Submission of undertaking on legal stamp paper is mandatory). 6. Compliance to the technical specifications mentioned in BDS, in full compliance of the Execution Schedule and Delivery Period mentioned in tender document (Undertaking of same on legal stamp paper is must). 7. Must have Office /Regional Office / in Islamabad and is Registered with Pakistan Engineering Council. 8. Must be OEM authorized dealer and its parts also.

		9. Must have 10 or more corporate clientele where installation of Fire Alarm System, Data Structured Cabling System, PABX System, Voice Networking, PA system, Multimedia, and Interpretation System has been undertaken by the firm. Documentary evidence/ customer testimonial from at least 5 customers would be required. 10. Documentary evidence to the above must be provided with the Bid, which includes copy of contract/purchase order, etc. 11. The bidder must submit National Tax No., Sales Tax No. Certificates& PEC certificate, as well as certificate of incorporation/registration of the firm.
ITB 13.1	Amount of bid security	2 % of the total quoted bid price.
	Amount of Performance Guaranty	10% of the total quoted price shall be treated as guaranty for the whole period of warranty.
ITB 13.3	Form of Bid Security	(i) The tenders found deficient of the amount as bid security compared to total bid price will not be considered. (ii) No personal cheques will be acceptable at any cost. (iii) The previous bid security will not be considered or carried forward.
ITB 14.1	Bid validity period.	Bid should remain valid for 90 days from the closing date.
ITB 15.1	Number of copies.	One original & One additional Copy.

C. Submission of Bids

ITB 17.1	Address for bid submission.	FPCCI Head Office, Federation House, Block 5, Main Clifton, Karachi. Ph:- 021- 35873691- 94
ITB 17.1	Deadline for bid submission.	Tuesday 07th July, 2020 at 11:00 a.m.

D. Opening of Bids

ITB 20.1	Time, date, and place for bid opening.	Tuesday 07th July, 2020 at 12:00 noon FPCCI Head Office, Federation House, Block 5, Main Clifton, Karachi. Ph:- 021- 35873691- 94
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E. Calculation of Marks for Technical Evaluation

ITB 23	Registrations/	The overall minimum qualifying score shall be 70% marks and at
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	Licenses	least 50% marks in each category to qualify. A detailed post-qualification criterion is given hereunder. <table> <tr> <th>Sr. No.</th><th>Description</th><th>Marks</th></tr> <tr> <td>1.</td><td>Registration with FBR as active tax payer.</td><td>5</td></tr> <tr> <td>2.</td><td>OEM authorized dealership.</td><td>10</td></tr> <tr> <td>3.</td><td>ISO 9001 certification.</td><td>5</td></tr> <tr> <td>4.</td><td>PEC license valid up to 30th June, 2020 CAT-6 in the field of EE-01, EE-07, EE-09.</td><td>10</td></tr> <tr> <td colspan="2">Total Marks</td><td>30</td></tr> </table>	Sr. No.	Description	Marks	1.	Registration with FBR as active tax payer.	5	2.	OEM authorized dealership.	10	3.	ISO 9001 certification.	5	4.	PEC license valid up to 30 th June, 2020 CAT-6 in the field of EE-01, EE-07, EE-09.	10	Total Marks		30
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Total Marks		30																		
ITB 23	Work Experience	Marking for work experience of the firm or joint venture shall be evaluated as per following criteria. <table> <tr> <th>Sr. No.</th><th>Description</th><th>Max. Marks</th></tr> <tr> <td rowspan="2">1.</td><td>Project of similar nature and complexity (Completed).</td><td rowspan="2">15</td></tr> <tr> <td>Project with cost at least Rs. 2.5 million completed in last 5-years.</td></tr> <tr> <td rowspan="2">2.</td><td>Project similar nature and complexity (in hand)</td><td rowspan="2">10</td></tr> <tr> <td>Project with cost at least Rs. 2.5 million in-hand at least one.</td></tr> <tr> <td colspan="2">Total Marks</td><td>25</td></tr> </table> Note: Proof of projects completed and in hand shall be in the shape of completion certificate and letter of award respectively.	Sr. No.	Description	Max. Marks	1.	Project of similar nature and complexity (Completed).	15	Project with cost at least Rs. 2.5 million completed in last 5-years.	2.	Project similar nature and complexity (in hand)	10	Project with cost at least Rs. 2.5 million in-hand at least one.	Total Marks		25				
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	Project with cost at least Rs. 2.5 million in-hand at least one.																			
Total Marks		25																		
ITB 23	Professional Capabilities	Making for personal capabilities of the firm/joint venture shall be evaluated on the basis of following criteria. <table> <tr> <th>Sr. No.</th><th>Description</th><th>Max. Marks</th></tr> <tr> <td>I.</td><td>Graduate Engineers (Electronic Engineers) a) Electronic Engineer 5 marks having 10 years of relevant experience, and 2.5 marks with 5-10 years of experience.</td><td>10</td></tr> <tr> <td>II.</td><td>Diploma of Associate Engineers-DAE (Mechanical & Electrical) a) Associate Engineer-Mechanical 2 marks for each DAE Mechanical Engineering with 5-10 years of experience (Maximum 2 Marks). b) Associate Engineer-Electrical 2 marks for each DAE Electrical Engineering with 5-10 years of</td><td>10</td></tr> </table>	Sr. No.	Description	Max. Marks	I.	Graduate Engineers (Electronic Engineers) a) Electronic Engineer 5 marks having 10 years of relevant experience, and 2.5 marks with 5-10 years of experience.	10	II.	Diploma of Associate Engineers-DAE (Mechanical & Electrical) a) Associate Engineer-Mechanical 2 marks for each DAE Mechanical Engineering with 5-10 years of experience (Maximum 2 Marks). b) Associate Engineer-Electrical 2 marks for each DAE Electrical Engineering with 5-10 years of	10									
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		<table> <tr> <td></td><td>experience (Maximum 2 Marks).</td><td></td></tr> <tr> <td></td><td>Total marks</td><td>20</td></tr> </table> Note:-CV's, PEC registration certificate and affidavit on stamp paper of the professional staff currently employed with the firm in mandatory for submission.		experience (Maximum 2 Marks).			Total marks	20									
	experience (Maximum 2 Marks).																
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ITB 23	Financial Capabilities	Making for financial capabilities of the firm or joint venture shall be evaluated on the basis of following criteria. <table> <tr> <th>Sr. No.</th><th>Description</th><th>Max. Marks</th></tr> <tr> <td>1.</td><td>Balance available/Current Assets Balance available amount to Rs. 2.5 million or more Balance available less than Rs. 2.5 million shall be evaluated proportionately.</td><td>10</td></tr> <tr> <td>2.</td><td>Business Turnover Business Turnover for the last 3 years is 2 times amount to Rs. 2.5 million or more Constriction turnover less than Rs. 2.5 million shall be evaluated proportionately.</td><td>10</td></tr> <tr> <td>3.</td><td>Financial Bid Capacity Financial Bid Capacity equal to amount of Rs. 5million or more Financial Bid Capacity less than Rs. 5 million shall be evaluated proportionately.</td><td>5</td></tr> <tr> <td></td><td>Total marks</td><td>25</td></tr> </table> - Maximum marks. 100 - Minimum marks. 70	Sr. No.	Description	Max. Marks	1.	Balance available/Current Assets Balance available amount to Rs. 2.5 million or more Balance available less than Rs. 2.5 million shall be evaluated proportionately.	10	2.	Business Turnover Business Turnover for the last 3 years is 2 times amount to Rs. 2.5 million or more Constriction turnover less than Rs. 2.5 million shall be evaluated proportionately.	10	3.	Financial Bid Capacity Financial Bid Capacity equal to amount of Rs. 5million or more Financial Bid Capacity less than Rs. 5 million shall be evaluated proportionately.	5		Total marks	25
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	Total marks	25															

F. Technical Evaluation Criteria for Bids

ITB 24	Criteria for bid evaluation.	1. As per ITB 12.2 (a) listed above. (i) Delivered Duty Paid (inclusive of all applicable taxes & transportation charges), installation & commissioning Price Only. (ii) Bidders cannot bid for partial quantities of an item in the Schedule of requirement. The bid must be for the whole quantity of an item required in the schedule of requirement. (iii) The bidder has to quote only one rate for each item as per tender specification. No alternate model or separate accessories will be accepted.
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Part Two

- I. Schedule of Requirements
- II. Technical Specifications
- III. Standard Forms

I. Schedule of Requirements

II. Technical Specifications

TECHNICAL SPECIFICATIONS

1.0 FIRE ALARM SYSTEM

1.01 GENERAL

Supply, Laying and Connecting up of smoke/heat detector/manual call and sounder point wired with 2 core 1.5mm² twisted pair ALU FOIL LSZH color red cable make NORDEN(UK)/2M KAMBLO/CAVICAL or approved equivalent in and including 1" dia PVC pipe and all pipe accessories, complete in all respects.

1.02 FIRE ALARM CONTROL PANEL

Supply & Installation of Fire Panel upgraded to 2 loops by second Module, With Batteries. Connection of up to 254 elements (127 per loop), Remote operation by up to 3 Remote Keypads (via CAN or Ethernet), Auto-detection of modules and Plug-in of modules during operation Serial interface to Bosch or approved equivalent Voice Evacuation System (EVAC) make Bosch or approved equivalent or approved equivalent.

1.03 SMOKE DETECTOR

Supply & Installation of Smoke detector, optical Analog addressable detector with one optical sensor, manually and automatically addressable. Highly reliable and accurate thanks to Intelligent Signal Processing (ISP). Earliest detection of lightest smoke with dual optical versions (Dual-Ray technology). Monitors environment for electromagnetic influence for fast root-cause analysis with Base make Bosch or approved equivalent.

1.04 HEAT DETECTOR

Supply and Installation of heat detector Analog addressable heat detector with one thermal sensor, manually and automatically addressable. Highly reliable and accurate thanks to Intelligent Signal Processing (ISP). Earliest detection of lightest smoke with dual optical versions (Dual-Ray technology). Monitors environment for electromagnetic influence for fast root-cause analysis with base make Bosch or approved equivalent.

1.05 MANUAL STATION

Manual Call Point Manual call point resettable surface mount, red resettable analog addressable manual call point for indoor use, direct alarm triggering (type A), surface mounted, red Alarm triggering by pressing the black marking. Protection against injury through foil-labeled glass pane. LED display for triggered alarm or inspection evaluation. Individual call point identification. Call point query routines with evaluation and multiple transmission make Bosch or approved equivalent.

1.06 **SOUNDER/BELL**

Supply & Installation of Base sounder indoor analog addressable base sounder for indoor use, red. Volume of up to 92.1 dB(A) Maximum current consumption of less than 3.85 mA. Up to 100 sounders per LSN loop. Immediate synchronization. 32 different tone types can be selected (incl. DIN tone) WITH Optical Indicator, analog addressable strobe Red Low consumption thanks to LED-technology Synchronized flash rate of 1 Hz make Bosch or approved equivalent.

1.07 Testing and Commissioning for Fire Alarm System.

1.08 **SYSTEM TESTING**

After the installation is complete, the alarm wiring/system shall be tested and commissioned by factory-trained personnel of the manufacturer's local agent, in accordance with the manufacturer's local agent, in accordance with the manufacturer's recommended procedures, in the presence of the Owner's representative and Consultant. Test shall include, but not be limited to, the following:

- a) All wiring shall be tested for proper connection, continuity, and resistance to ground.
- b) The complete system (heat/smoke detectors with manufacturer recommended smoke sprays etc, alarm switch, manual stations, Sounder/bell, wiring and circuits) shall be functionally tested.
- c) Each circuit shall be tested for trouble, by inducing a trouble condition in the system.

1.10 **TRAINING REQUIREMENTS**

Prior to the final acceptance the Contractor shall provide operation training to the Owner's personnel, including emergency procedures, control panel operation, trouble shooting procedure, safety requirements and demonstration of the system.

1.11 **WARRANTY**

The contractor shall provide an on-site warranty, covering materials and labour valid for 1 years from date of commissioning, for

2.0 **DATA STRUCTURED CABLING SYSTEM**

All components, materials and equipment shall meet or exceed the relevant Category requirements of EIA/TIA Standard 568A.

The commissioned/tested system shall be certified & warranted by the manufacturer.

- 2.1 Supply, Laying & Connecting up of 4 pairs CAT-6 UTP cable make LEGRAND/3M/NORDEN or approved equivalent. From each data outlet to data cabinet for networking to be laid in and including 1" dia PVC pipe, complete in all respects.
- 2.2 Supply and Installation data outlet RJ-45 CAT-6 outlet on a single shutter face plate make LEGRAND/3M/NORDEN or approved equivalent to be installed in floor box, complete in all respects.

- 2.3 Supply, Installation & Connecting up of CAT-6 UTP patch panels including cable manager and CAT-6 jacks make LEGRAND/3M/NORDEN or approved equivalent of following ports to be installed in data cabinets. 24 ports
- 2.4 Supply, testing and commissioning of floor standing data cabinet size 42 U, complete with all accessories including, cable-management troughs, labels, label holders, cable guide, etc., lockable glass door including fan, shelves, 2 Nos. PDU/4x13A flat pin surge suppressed socket outlets and earth point etc., complete in all respects (Note:-Data switches 24 port shall also be installed in same cabinets).
- 2.5 Supply, testing and commissioning of lockable wall mounted cabinet size 12U suitable for patch panels and computer switch including PDU/4x13A flat pin switch socket outlet, complete with all respects.
- 2.6 Supply at site, Installation & testing and commissioning of 6 Core Fiber Optic Cable multimode 50/125 Micron for back bone connectivity to be installed on Cable Tray Complete in all respect make LEGRAND/NORDEN or approved equivalent.
- 2.7 Supply at site, Installation & testing and commissioning of Optical Fiber Distribution Frame 06 Ports with Om3 SC Duplex Couplers, and Pigtails, Fiber Management Rings, Labels and Troughs Complete in all respect make LEGRAND/NORDEN or approved equivalent.
- 2.8 Supply at site, Installation & testing and commissioning of Optical Fiber Distribution Frame 24 Ports with Om3 SC Duplex Couplers, and Pigtails, Fiber Management Rings, Labels and Troughs Complete in all respect make LEGRAND/NORDEN or approved equivalent.
- 2.9 Supply, Installation, Testing & Commissioning of Layer-3, Network Switch 1U Rack Mounted with 24 SFP Fiber Ports (Support 1.0 Giga), including cost of 14 No's SFP Modules (1.0 Giga) Multimode, Complete in all respect, as per drawing and specifications make HP/CISCO or approved equivalent.
- 2.10 Supply, Installation, Testing & Commissioning of Layer-2, Network Switch with 24 Giga Ethernet Ports with 02 No's SFP Up-link (Support 1.0 Giga), including cost of 02 No's 1.0 Giga SFP Modules, Complete in all respect, as per drawing and specifications make HP/CISCO or approved equivalent.
- 2.11 Supply, Installation, Testing & Commissioning of Layer-2, Network Switch with 08 Ports Poe (90 Watts) Giga Ethernet Ports with 02 Nos SFP Up-link (Support 1.0 Giga), including cost of 02 Nos 1.0 Giga SFP Modules, Complete in all respect, as per drawing and specifications make HP/CISCO/ DAHUA or approved equivalent.
- 2.12 Supply, Installation, Testing & Commissioning of Wireless Access Controller (OAW-4010) support 16 Access Points and Support 200 Clients, 2 SFP Ports, firewall for all access points with licenses. Built-in WIDS & WIPS with populated licenses for all AP,S make HP/CISCO/AL-CATEL or approved equivalent, complete in all respects.
- 2.13 Supply, Installation & Connecting of Wireless Access Point (OAW-IAP205-RW) , 802.11/a/b/g/n/ac supported, 3x3 :3 mimo supported with 1.0 Gbps maximum data rate, dual band & dual radio, Poe . Poe + Supported, high gain 5DBI Dual band Omni directional antennas, autonomous and controller managed mode of operation, wall / ceiling mounted make Cisco, HP, Alcatel, complete in all respects.
- 2.14 Supply, Laying & Connecting up of Category-6, 4-pairs UTP cords make LEGRAND/3M/NORDEN or approved equivalent with 4-pairs modular plugs, as follows:-
- 1.0m (patch cord) 90Each
 - 3.0m (drop cord). 90 Each

2.15 Fluke testing & certification/guarantees from the system supplier.

3.0 TELEPHONE EXCHANGE

3.1 Supply, Installation, Testing & Commissioning of Hybrid Telephone Exchange having following Specifications. Make Siemens, Avaya Nortel or approved equivalent.

- 1- ISDN PRI Circuit 01
- 32- Analog Trunk lines with CLI Facility 32
- 10- IP Extension Licenses with CLI Facility
- 110- Analog Extension Interfaces with CLI Facility
- 10- IP Premium Desk phone with Power adaptor.
- 1- Digital Premium Desk phone for Operator Console 01
- Voice Mail (2 ports, 1 hour)
- Automated Attendant
- Call Logging Software (Vista 8770)
- Battery Backup with Maintenance free Batteries for 2 Hours Autonomy
- Installation and commissioning at Site
- One year comprehensive warranty including spares and services for quoted items
- Music on Hold (external calls only)
- Call Forwarding, Call Pickup (Direct and Group)
- Voice Mail, Speed Dialing, Call by name, Appointment Reminder
- Call Back, Call Parking, Intrusion, Automatic Route Selection
- Call Restriction, Call Routing, Time Ranges, Outgoing call duration classes
- VoIP (SIP/H.323) Support
- Set Locking, Call Broadcast on Executive Sets, Hunt Groups
- Tele-Maintenance Access to remotely maintain the system

3.2 Supply & Installation of analogue/DTMF telephone set Make Siemens, Avaya Nortel or Equivalent.

3.3 Supply & Installation of digital telephone set make Siemens, Avaya, Nortel approved or equivalent.

4 VOICE NETWORKING SYSTEM

All components, materials and equipment shall meet or exceed the relevant category requirements of EIA/TIA Standard 568A. The commissioned/tested system shall be certified & warranted by the manufacturer.

- 4.1 Supply, Laying & Connecting up of 4 pairs CAT-6 UTP cable make LEGRAND/3M/NORDEN or approved equivalent. From each data outlet to data cabinet for networking to be laid in and including 1" dia PVC pipe, complete in all respects.
- 4.2 Supply and Installation voice outlet RJ-45 CAT-6 outlet on a single shutter face plate make LEGRAND/3M/NORDEN or approved equivalent to be installed in floor box, complete in all respects.

- 4.3 Supply and Installation voice outlet RJ-45 CAT-6 outlet on a single shutter face plate make LEGRAND/3M/NORDEN or approved equivalent to be installed in wall with 16 SWG sheet steel back box, complete in all respects.
- 4.4 Supply & Installation of Testing & Commissioning of following Telephone Main Distribution frame wall mounted, made of M.S Sheet, Powder Coated having lockable door at front, patch guides, following Pair disconnection Modules, 10 pairs building entrance surge overvoltage and sneak current protector incoming & outgoing fuses with earthing cord including all accessories label holders etc. to be installed in outdoor TJB. Complete in all respect make NORDEN/LEGRAND or approved equivalent.
- 150 pairs.
 - 10 pairs.
 - 30 pairs.
 - 20 pairs.
- 4.5 Same as item No. 4.04 above but 50 pair outdoor feeder pillar type IP-65 telephone junction box.
- 4.6 Supply, Laying & Connecting up of following size telephone cables 0.6mm solid conductor, polyethylene insulated, 2 insulated conductors twisted together and PVC sheathed of following pairs make PAKISTAN/SIEMENS/NORDEN/ PONY or approved equivalent.
- 50 pair's cable. 90 Meter
 - 15 pair's cable. 400 Meter
 - 10 air cable. 250 Meter
- 4.7 Supply, Laying & Connection up of self-supported aerial armored PVC/PVC telephone cable make PAKISTAN/NORDAN/SIEMENS/PONY or approved equivalent from main T&T box to owner TJB in and including PVC pipe, complete in all respects.
- 50 Pairs
- 4.8 Fluke testing& certification/guarantees from 3M.

5.0 MULTIMEDIA SYSTEM

- 5.1 Supply & Installation of INFOCUS (USA) LCD Multimedia Projector, model IN-5148HD, 0.8" P.Si Brightness 5000 Lumens, Resolution True XGA (1920x1080), Contrast 12000, Lap Life5000 Hours (Eco Mode), Short Throw Lens, complete with standard accessories and double input.
- 5.2 Supply & Installation of ceiling Mount Kit electric operated for Multimedia Projector complete with high quality USA made 20 meter data cable (VGA), audio cable, power cable, A/V composite video cable cables length 10m complete with installation.
- 5.3 Supply & Installation of motorized Projection screen of size 8'x6'. Matt white screen surface with black color coating on rear side for sharp image. Complete with wall bracket, IR remote control & manual switching panel complete with installation.
- 5.4 Testing & Commissioning of Multimedia System including training, and training materials to staff.

6.0 PUBLIC ADDRESS SYSTEM

- 6.1 Supply, Laying and Connecting up of speaker wired with 2 core 1.5mm² twisted pair foil shielded LSZH color white cable make NORDEN (UK)/CONTEX PLUS (UK) cable in and including PVC pipe, complete in all respects as per drawings and specifications.
- 6.2 Supply & Installation of Ceiling loudspeaker 6 W, circular ABS grille and frame, ceiling mounted by 2 integral spring arms, EN54-24 certified, and white RAL 9010 make Bosch or approved equivalent.
- 6.3 Supply & Installation of Bosch or approved equivalent 30W Cabinet Loudspeaker with High-fidelity music and speech reproduction, Selectable 8 ohm, 70 V and 100 V inputs, Compact yet robust ABS enclosure, Supplied with adjustable mounting bracket, Complies with international installation and safety regulations make Bosch or approved equivalent.
- 6.4 Supply & Installation of Plena All-in-One Unit can provide hours of uninterrupted music from USB or SD flash memory. The unit also has a built in AM/FM tuner with presets. To ensure for optimum performance, the All-in-One Unit has no moving parts, such as hard drives that can fail or wear out. It is compatible with SD, SDHC and MMC cards, and USB memory sticks. The unit is supplied with an IR remote control for controlling the music source. To enhance the performance of the public address system, the following optional products can be connected to the All-in-One Unit. One or more Call Stations for six-zones and all-call, so that calls can be made to any combination of zones or all zones. A maximum of six Call Stations can be connected in a loop-through arrangement to the same All-in-One Unit. , A Wall Panel for enabling control of the background music from a remote location; the Wall Panel even allows a microphone or portable music player to be connected to the system, An additional power amplifier, so that music can be heard in one set of zones while calls can be made to another set of zones. EMC: EN 55103-1,EN 55103-2, EN 61000-3-2,EN 61000-3-3 make Bosch or approved equivalent.
- 6.5 Supply & Installation of emergency input from PABX. Socket for connection of PMB106/PMB106-G microphone stations (RJ45 connector, CAT5 SFTP cable). Balanced line output for connection with other amplifiers. Loudspeakers output terminal strip (50-70-100V/8 Ω). Terminal strip for external DC power supply. Precedence and override terminal strip. "MUSIC ON HOLD" terminal strip. Activation threshold/level control of the warning signal (Chime). Individual Volume control (zone 1 to 6). Possibility to connect an external amplifier. Output for recorder. Selectable mains voltage (230/115V) model PA6240 make Bosch or approved equivalent.
- 6.6 Supply & Installation of 480 Watt Power Amplifier in a 3U high 19" housing, EN 54-16 certified and EN 60849 compliant, 70 V / 100 V and 8 ohm outputs, Dual inputs with priority switching, 100 V input for slave operation on 100 V speaker Line make Bosch or approved equivalent.

- 6.7 Supply & Installation of The Plena BGM source unit WITH the ideal high-quality. Source for background music (BGM) in public address systems. The unit consists of a DVD/CD-player and a digitally controlled FM/AM tuner in a compact 2U-high, 19" housing make Bosch or approved equivalent.
- 6.8 Supply & Installation of Voice Alarm controller that has two BGM source inputs and a mic/line input with configurable priority, speech filter, phantom power and selectable VOX activation. A total of 16 priority levels can be specified for microphone, call stations and trigger inputs for optimum system flexibility. The powerful 240 W output section has six transformer-isolated 100 V constant-voltage outputs for driving 100 V loudspeakers in six separate zones. The 100 V-technique reduces line losses on longer distances and provides easy parallel connection of. Multiple loudspeakers. All zones may be individually selected from the front panel, and the BGM output level in each zone can be individually set in six steps. The controller to support A/B wiring makes Bosch or approved equivalent.
- 6.9 Supply & Installation Cordless Hand held Microphone consisting of 193 selectable UHF channels, PLL synthesized technology, LCD with battery status and frequency indication, Lock unction, Approximately 15 hours operation on alkaline batteries along with UHF wireless microphone receiver, true diversity for stable reception, PLL synthesized technology, table top and 19" rack mountable. Frequency range: 722-746 MHz, 193 selectable UHF channels make Bosch or approved equivalent.
- 6.10 Testing & Commissioning of Public Address System.

7.0 INTERPRETATION SYSTEM

- 7.1 Supply Installation testing commissioning of interpretation system of 08 Channels. The system shall provide interference-free, high-quality audio distribution, which shall enable delegates to listen to language interpretations at conferences. It shall avoid disturbance from lighting systems by operating in the 2 to 8 MHz frequency band. It shall provide high-quality audio signals by employing advanced digital technology to minimize transmission errors and increase the signal-to-noise ratio. It shall enable the transmission of up to 32 separate channels. It shall also be possible to transmit a lesser number of higher-quality audio signals by 'combining' channels. The transmitter shall be the central element in the system. It shall accept inputs from either analogue or digital sources, modulate these signals on to carrier waves, and then transmit the waves to infra-red radiators located elsewhere in the conference venue.
- 7.2 Supply Installation testing commissioning of Bosch or approved equivalent 08-Channel Transmitter. Which can distribute a maximum of 4, 8, 16 or 32 audio channels? Can be used with various Conference Systems. Flexible configuration of channels and channel quality modes for efficient distribution. Configuration of transmitter and system via a display and one single rotary push button or approved equivalent. Auxiliary mode for distribution of music to all channels during a break. Slave mode for distribution of signals from another transmitter allows multiple rooms to be used. Test mode which produces a different frequency tone for each input/channel, with the tone gradually rising as the channels are stepped through. Adjustable sensitivity for each input to enable fine tuning of audio levels. Built-in mini infrared radiator for audio monitoring. Radiator and system status indication

via display. Each transmitter can be assigned a unique name by the installer for easy identification in a multi transmitter system. Each audio channel can also be assigned a unique name by the installer. These names can be selected from a list of options or entered manually. Automatic distribution of emergency messages to all channels. Automatic standby/on function Automatic synchronization to the number of channels in use in a DCN system. Automatic synchronization of language names in use in a DCN Next Generation system. Universal mains power facility allows use worldwide. Stylish 19" (2U) housing for tabletop use or rack mounting. Handgrips for easy transportation.

- 7.3 Supply Installation testing commissioning of Bosch or approved equivalent POCKET RECEIVERS Specially-designed IC for maximum performance and a long battery life time. Recharging electronics integrated in the chip, ensuring optimum charging performance. 2-digit LCD display with battery and reception status indication. Number of available channels is always the same as the number of channels in use by the system, eliminating the need to scroll through unused channels or approved equivalent. Audio signal automatically muted when signal is too low, ensuring that the user receives only high quality audio. Can be used with disposable batteries (2x AA alkaline batteries, not included) or environmentally-friendly NiMH rechargeable battery pack LBB 4550/00, (not included). No power used when headphone is disconnected. Clip for easy wearing. Measurement mode for easy checking of radiator coverage. Attractive and stylish design. Up to 200 hours operation with alkaline batteries. Up to 75 hours operation with battery pack. Recharges from empty to full capacity within 1 hour and 45 minute.
- 7.4 Supply Installation testing commissioning of 56-Slot Charger case for receivers. Power Consumption: (Standby) 17 W. Bosch or approved equivalent LBB4560/00 or equivalent.
- 7.5 Supply Installation testing commissioning of Bosch or approved equivalent MEDIUM POWER RADIATOR covers up to 1300 m2. Automatic gain control ensures the IREDs (infrared emitting diodes) function with maximum efficiency. Power output selection for efficiency and economy with Safety Eye. Universal mains power facility allows use worldwide. No fan - cooled by convection - resulting in quieter operation and less moving parts to wear out. LED indicators for radiator status checking. Communication between radiator and transmitter for easy checking by the operator. Automatically switches on when transmitter is switched on and vice versa. Automatic cable equalization ensures maximum transmission efficiency with different quality of cables. Automatic cable termination simplifies installation. Temperature protection circuitry automatically switches radiator from full- to half- power if the temperature becomes too high. Adjustable radiator angle ensures maximum coverage. IREDs protected by a cover plate, making the units easy to maintain and clean. Attractive and stylish design or approved equivalent.
- 7.6 Testing & Commissioning of Interpretation System.

III. Standard Forms

1. Bid Form/Cover Letter

Date: _____

No: _____

To: Deputy Secy FPCCI

Federation of Pakistan Chamber of Commerce and Industry (FPCCI), Capital Office Islamabad.

Dear Sir,

Having examined the bidding documents, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply deliver and install the Fire Alarm System, Data Structured Cabling System, PABX System, Voice Networking, PA System, Multimedia, Interpretation System in conformity with the said bidding documents for the sum of Rs.-----.

We undertake, if our Bid is accepted, to deliver and install the transformer in accordance with the delivery schedule specified in the Schedule of Requirements.

If our Bid is accepted, we hereby agree that our Bid Security as being provided herewith this "Bid Form", will remain with the Client according to Clause 13.7 of Instructions to Bidders.

We also agree to abide by this Bid for a period of 90 days from the date fixed for Bid opening under Clause 20 of the Instructions to Bidders, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

Dated this _____ day of _____ 2020

[signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

2. Price Schedule

Name of Bidder _____

Total amount of Bid in Figures-----

Total amount of Bid in words-----

Signatures & stamp of authorized person-----

3. Contract Form

THIS AGREEMENT made on the ____ day of _____ 2020 between *Federation of Pakistan Chamber of Commerce and industry (FPCCI)* (hereinafter called "the Client") of the one part and *[name of Contractor]* (hereinafter called "the Contractor") of the other part:

WHEREAS the Purchaser invited bids for Fire Alarm System, Data Structured Cabling System, PABX System, Voice Networking, PA System, Multimedia, Interpretation System and has accepted a bid by the manufacture or authorized dealer for the supply of those items in the sum of *[contract price in words and figures]* (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - (a) The Bid Form and the Price Schedule submitted by the Bidder;
 - (b) The Schedule of Requirements;
 - (c) The Technical Specifications;
 - (d) The General Conditions of Contract;
 - (e) The Special Conditions of Contract;
 - (f) The Client's Notification of Award.
3. In consideration of the payments to be made by the Client to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Client to provide the Goods and to remedy defects therein in conformity in all respects with the provisions of the Contract
4. The Client hereby covenants to pay the Contractor in consideration of the provision of the goods the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by _____ the for the Client)

Signed, sealed, delivered by _____ the for the Contractor)

Part Three

Section I.

General Conditions of Contract (GCC)

General Conditions of Contract (GCC)

1. Definitions

1.1 In this Contract, the following terms shall be interpreted as indicated:

- (a) "OWNER" means Client
The federation of Pakistan
Chamber of Commerce & Industries,
G-8/1 Aiwan-Sanat-o-Tijarat Road Mauve Area, Islamabad.
- (b) "CONSULTANT" means
M/s Z.A. Sheikh & Associates and their associate
M/s International Engineers.
5E/1, Gulberg-III, Lahore
And/or any person duly authorized by him.
- (c) "CONTRACTOR" means the firm or company, group of companies, who's Tender has been accepted by the OWNER. The term CONTRACTOR, includes sponsor/representative of the company, firm/consortium their successors and his approved authorized representatives.
- (d) "GOODS" all equipment/material to be supplied & installed by the CONTRACTOR in accordance with the CONTRACT. Insofar as to be understood from the wording of the text, WORK also means the entirety of all or individual components which are to be completed and maintained until finally accepted within the scope of CONTRACT.
- (e) "The Contract" means the agreement entered into between the Client and the Contractor, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- (f) "The Contract Price" means the price payable to the Contractor under the Contract for the full and proper performance of its contractual obligations.
- (g) "The Goods" means all of the equipment, machinery, and/or other materials which the Contractor is required to supply to the Client under the Contract.
- (h) "The Services" means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Contractor covered under the Contract.

- (i) Tools & plants means all tools, machinery equipment, appliances, ladders, scaffolding or thins what so ever nature required for the execution, installation, commissioning and maintenance of the works.
- (j) "GCC" means the General Conditions of Contract contained in this section.
- (k) "SCC" means the Special Conditions of Contract.
- (l) "The Client" means Federation of Chamber of Commerce and Industry.
- (m) "The Contractor" means the individual or firm supplying the Goods and Services under this Contract.
- (n) "Day" means calendar day.

2. Application

- 2.1 These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.

3. Standards

- 3.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods' country of origin. Such standards shall be the latest issued by the concerned institution.

4. Inspections and Tests

- 4.1 The inspections and tests may be conducted on the premises of the Contractor or its subcontractor(s), at point of delivery, and/or at the Goods' final destination. If conducted on the premises of the Contractor or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Client.
- 4.2 Should any inspected or tested Goods fail to conform to the Specifications, the Client may reject the Goods, and the Contractor shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Client.
- 4.3 The Client's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at the Client's delivery point shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Client or its representative prior to the Goods' shipment from the factory/warehouse.
- 4.4 Nothing in GCC Clause 4 shall in any way release the Contractor from any warranty or other obligations under this Contract.

5. Packing

- 5.1 The Contractor shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.
- 5.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the Client.

6. Delivery and Documents

- 6.1 Delivery of the Goods shall be made by the Contractor in accordance with the terms specified in the Schedule of Requirements.

7. Transportation

- 7.1 The Contractor is required under the Contract to transport the Goods to a specified place of destination i.e. Islamabad Office.

8. Warranty

- 8.1 The Contractor warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Contractor further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Client's specifications) or from any act or omission of the Contractor, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.

9. Payment

- 9.1 The method and conditions of payment to be made to the Contractor under this Contract shall be specified in SCC.
- 9.2 The Contractor's request(s) for payment shall be made to the Client in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed and upon fulfillment of other obligations stipulated in the Contract.
- 9.3 Payments shall be made promptly by the Client, but in no case later than thirty (30) days after submission of an invoice or claim by the Contractor.
- 9.4 The currency of payment is Pak. Rupees.

- 10. Prices** 10.1 Prices charged by the Contractor for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Contractor in its bid, with the exception of any price adjustments authorized in SCC or in the Client's request for bid validity extension, as the case may be.
- 11. Change Orders** 11.1 The Client may at any time, by a written order given to the Contractor pursuant to GCC Clause 21, make changes within the general scope of the Contract.
11.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Contractor's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Contractor for adjustment under this clause must be asserted within fifteen (15) days from the date of the Contractor's receipt of the Client's change order.
- 12. Contract Amendments** 12.1 No variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.
- 13. Assignment** 13.1 The Contractor shall not assign, in whole or in part, its obligations to perform under this Contract.
- 14. Delays in the Contractor's Performance** 14.1 Delivery of the Goods and performance of Services shall be made by the Contractor in accordance with the time schedule prescribed by the Client in the Schedule of Requirements.
14.2 If at any time during performance of the Contract, the Contractor or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Contractor shall promptly notify the Client in writing of the fact of the delay, its likely duration and its cause(s).
14.3 Except as provided under GCC Clause 17, a delay by the Contractor in the performance of its delivery obligations shall render the Contractor liable to the imposition of liquidated damages pursuant to GCC Clause 15, unless an extension of time is agreed upon pursuant to GCC Clause 14.2 without the application of liquidated damages.
- 15. Liquidated Damages** 15.1 Subject to GCC Clause 17, if the Contractor fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Client shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum is reached, the Client may consider

termination of the Contract pursuant to GCC Clause 16.

16. Termination for Default

16.1 The Client, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Contractor, may terminate this Contract in whole or in part:

- (a) if the Contractor fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Client pursuant to GCC Clause 14.2; or
- (b) if the Contractor fails to perform any other obligation(s) under the Contract.
- (c) if the Contractor, in the judgment of the Client has engaged in corrupt and fraudulent practices in competing for or in executing the Contract.

For the purpose of this clause:

“corrupt and fraudulent practices” includes the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official or the Contractor or contractor in the procurement process or in contract execution to the detriment of the procuring agencies; or misrepresentation of facts in order to influence a procurement process or the execution of a contract, collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the procuring agencies of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty.

16.2 In the event the Client terminates the Contract in whole or in part, pursuant to GCC Clause 16.1, the Client may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Contractor shall be liable to the Client for any excess costs for such similar Goods or Services. However, the Contractor shall continue performance of the Contract to the extent not terminated.

17. Force Majeure

17.1 For purposes of this clause, “Force Majeure” means an event beyond the control of the Contractor and not involving the Contractor’s fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Client in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

17.2 If a Force Majeure situation arises, the Contractor shall promptly notify the Client in writing of such condition and the cause thereof. Unless otherwise directed by the Client in writing, the Contractor shall

continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

18. Resolution of Disputes

18.1 The Client and the Contractor shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

18.2 If, after thirty (30) days from the commencement of such informal negotiations, the Client and the Contractor have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in SCC. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed manner and/or arbitration.

19. Governing Language

19.1 The Contract shall be written in the language specified in SCC. Subject to GCC Clause 20, the version of the Contract written in the specified language shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

20. Applicable Law

20.1 The Contract shall be interpreted in accordance with PPRA Ordinance 2002, Public Procurement Rules 2004 and other laws of Islamic Republic of Pakistan. If there is any discrepancy between the laws and these bidding documents, the provisions of the laws and rules will prevail.

21. Notices

21.1 Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by cable, telex, or facsimile and confirmed in writing to the other party's address specified in SCC.

21.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

22. Taxes and Duties

22.1 Contractor shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Client.

Section II.

Special Conditions of Contract (SCC)

Special Conditions of Contract (SCC)

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

1. **Amount of bid bond**
2% (two percent) of the contract value.
2. **Amount of performance bond**
10% of the price of the contract (performance bond from a scheduled bank) at the time of signing the agreement of contract
3. **Securities for the proposed performance bond (state name and address of the proposed scheduled bank.**
 1. Name:- _____
Address:- _____
4. **Proposed time of completion of the work**
Time of completion of the work is (6) months.
5. **Period of maintenance**
Period of maintenance shall be 12 months.
6. **Inspections and Tests (GCC Clause 4)**

GCC 4.1—**Inspection and tests prior to supply of Goods and at final acceptance are as follows:** The Client or its representative shall have the right to inspect and or to test the supplies at the destination to confirm their conformity to the Contract specifications at no extra cost to the Client.
7. **Packing (GCC Clause 5)**

GCC 5.2 – **Packing & accessories:** The contractor shall deliver the supplies at the destination in scratch-less condition with all the manufacturer supplied accessories.
8. **Tool & plant**

The contractor shall arrange for all tools & plants on his cost required for installation, testing & commissioning of works.

9. Payment (GCC Clause 9)

GCC 9.1 & 9.3 —The method and conditions of payment to be made to the Contractor under this Contract shall be as follows:

i) Mobilization advance payment against guarantee from a schedule bank

10% (ten percent) of the total price of the contract at the time of signing of the agreement of contract.

ii) Deduction of mobilization advance

10% (ten percent) of the gross value of the first and subsequent interim running payments until the mobilization advance has been wholly recovered.

iii) Interim payment

on verified running bills upto 50% of the contract price.

iv) Percentage of retention

Percentage of retention shall be deducted @ 10% of the value of all running bill.

i) 5% shall be released after completion of the project.

ii) 5% shall be release after 1 year of the completion of project.

v) Final Payment:

Payment shall be made in Pak. Rupees.

(i) **On Acceptance: Hundred (100)** percent final payment shall be made to the contractor for the project completion as per completion certificate issued by the consultant within 15 days.

10. Prices (GCC Clause 10)

GCC 10.1—**Prices shall be:** Fixed.

11. Liquidated Damages (GCC Clause 15)

GCC 15.1—**Applicable rate:** Applicable rates shall not exceed one (1.0) % per day and the maximum shall not exceed ten (10) % of the contract price.

12. Resolution of Disputes (GCC Clause 18)

GCC 18.2—**The dispute resolution mechanism to be applied pursuant to GCC Clause 18.2 shall be as follows:**

In the case of a dispute between the Client and the Contractor, the dispute shall be referred to arbitration in accordance with the laws of the Islamic Republic of Pakistan.

13. Governing Language (GCC Clause 19)

GCC 19.1—**The Governing Language shall be:** English.