



**Ravi Urban Development Authority
Government of the Punjab**



No. RUDA/ENGG-CON/2024/208

Dated: 09/12/2024

IMPLEMENTATION OF SMART CITIES AT CHAHAR BAGH PHASE-01

ADDENDUM NO. 01

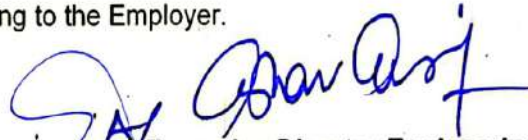
TO

BIDDING DOCUMENTS

Enclosed herewith, please find Addendum No. 01 which forms part of the Bidding Documents for the above-cited work. This addendum shall become an integral part of the Bidding Documents.

It is to be notified that following the issuance of this addendum, it is understood that the information contained therein shall be considered by you in your bid.

Nevertheless, the prospective contractors are required to immediately acknowledge the receipt of an addendum in writing to the Employer.


Executive Director Engineering
Ravi Urban Development Authority (RUDA)

Encl: As stated

Copy To:

- 1- Director Infrastructure, RUDA
- 2- Director PP&C, RUDA
- 3- Director Contracts Management, RUDA
- 4- Dy. Director Smart Cities, RUDA
- 5- Office File



Address: 5-C Muslim Town, Facing Canal Road, Lahore



**Ravi Urban Development Authority
Government of the Punjab**



IMPLEMENTATION OF SMART CITIES AT CHAHAR BAGH PHASE-01

ADDENDUM NO. 01

TO

BIDDING DOCUMENTS

The Bidding Documents for the above cited work are amended by revising and replacing the following pages. The prospective contractors shall replace these pages in his copy of the Bidding Documents and shall acknowledge receipt of this addendum.

Pages to be replaced:

Document Page No. (to be replaced)	Replacement Page No.	Volume No.
SP-25	SP-25 (R1)	III
11 (BOQ)	11 (BOQ) (R1)	II
SP-15	SP-15 (R1)	III
BD-1	BD-1 (R1)	I

A/ 
Executive Director Engineering
Ravi Urban Development Authority (RUDA)



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LED type and supplier: SMD, Nation star; Operating System: Windows 10; Material: Die Casting Aluminium; Power supply: 100-240V / 50- 60Hz; Operating Temperature: -40°C to 60 °C; CONTROLLER: The Media controller shall be extra-large resolution, HDMI/DVI video input and Ethernet output ports, complete in all respect Complete wall mount installation along with cabling and accessories.

g. Client CCTV Monitoring

Workstation with Client Software Minimum Core i7 Ultra Slim Desktop PC with Genuine latest Windows 10 Prof. 64bit, 2TB HDD & DVD write with Genuine licenses including keyboard & mouse

h. Core Switch

The modular switch having number of slots must be greater than or equal to 4 and should support: 12*10G SFP+, 4* 40/100 GE interface cards; Switching capacity ≥ 1 Tbit/s supports at least 4K VLANs, Supports IEEE 802.1d, IEEE 802.1w and IEEE 802.1s; Static routes, RIP, OSPF, BGP, Qos/ACL, AAA authentication and multiple modes such as RADIUS authentication, Support SNMP, Telnet and SSH; The hot backup of main control boards, The active / standby switchover, Hardware-based Heat dissipation and air exhaust direction: rear exhaust; The Fan modules must use redundancy design. The number of fan modules must be larger than or equal to 2 so services are not interrupted when a fan module is faulty or not installed properly with complete installation, configuration, testing.

(R1)

i. Distribution Switch

Stackable fixed configuration manageable Layer 3 Switch, device switching capacity 400 Gbit/sec or higher Optical interface: SFP Plus+ ports, 4 QSFP Plus ports, dual power supply, dual pluggable power modules, power cable, hot pluggable redundant fans , Multi-layer switching and enhanced routing capability, support Mac address entries of at least 380k, Support RIPv1/v2, RIPv6, OSPFv2, OSPFv3, ISIS, ISISv6, BGP4, BGP4+, MBGP, IGMPv1/v2/v3, IGMP Proxy, PIM-DM, PIM-SM and PIM SSM. DHCP snooping, Support multicast traffic, QoS and Filtering, Multi-layer switching and enhanced routing capability, Support multiple VLANs, Security features: 802.1x, Access Control Lists (ACLs), SNMP enabled, remote monitoring, Telnet support, Web based management interface with complete installation, configuration, testing.

(R1)

SP-25 (R1)



Address: 5-C Muslim Town, Facing Canal Road, Lahore



Ravi Urban Development Authority
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Sr. No.	Item Description	UOM	Qty.	Unit Rate	Total Amount
Supply, wiring, tagging, termination, design, installation, testing and commissioning of following system complete in all respects including all material, labor, tools, accessories etc. as per latest applicable international standards and technical specifications attached herewith.					
1	Firewall throughput minimum 40 Gbps, Uninterrupted Software upgrade capability, Minimum 4 x 10GE SFP+ slots, Minimum 8 x GE RJ45 and 8 x Combo slots, SATA hard disk (240 GB/960 GB/1000 GB/1920 GB), Firewall throughput $\geq 40\text{Gbps}$; NGFW Throughput (iMix) $\geq 6\text{Gbps}$; Threat Protection Throughput (Enterprise Mix) $\geq 5\text{Gbps}$; IPSec VPN throughput (AES-256, 1420 byte) $\geq 25\text{ Gbps}$, Application controlling and IPS throughput $\geq 15\text{ Gbps}$; Application controlling and IPS throughput $\geq 15\text{ Gbps}$; Concurrent connections per second $\geq 15,000,000$; New connections per second $\geq 400,000$; The appliance-based security platform should be a stateful NGFW, Next-Generation IPS, malware protection, URL protection, providing firewall, application visibility, and IPS functionality in a single appliances, Supports the smooth upgrade of HA(Active/Active or Active/Standby) Mode, the software of different versions can be used for hot standby, Supports application-layer flood attacks such as HTTP, HTTPS, DNS, and SIP, Supports traffic autolearning, Adjust security policies in real time, Security Features license for 3 years Comprehensive warranty	Nos.	1		

R1

Page No. 11 of BOQ (R1)

Address: 5-C Muslim Town, Facing Canal Road, Lahore





SP- 16 PROVISION OF FACILITIES FOR THE ENGINEER / EMPLOYER

16.1 SITE OFFICE FOR THE EMPLOYER / ENGINEER

The Contractor shall provide within 28 days after signing of Contract:

- a) Contractor's Office, Workshop, Material Testing Laboratory and Work Areas.
- b) The Employer (02 Containers), The Engineer and The Engineer's Representative's office (01 No. Container) duly approved by The Engineer at suitable location along the route considering convenience and ease of access with the provision of following facilities / services:
 - i. Separate lockable offices including conference room (for 15 persons), praying area. The office shall accommodate at least 10 officers / Personnel, etc.
 - ii. Furnished with furniture, air-conditioning, heating, power, etc.
 - iii. Communication media including telephone, fax, internet devices, etc. (03 Nos.)
 - iv. Latest Model of Laptops 1 no. for the Employer, Computers Desktop 2 no. (01 no. for Laboratory, 01 no. for office work), and 02 nos. printing & photocopy facilities (3-in-1 printers) (01 no. for Client and 01 no. for consultants)

All the purchases made under point b(iv) shall be the property of Employer after the completion of Defects Liability Period (DLP).

R-1

16.2 TRANSPORTATION

The Contractor shall within 07 days after signing of Contract provide 01 (one) no. rented 1600 cc vehicle (not older than year 2023) with driver for Employer to facilitate the project activities and site operation in smooth manners till the completion of Defects Liability Period (DLP). The Contractor shall also be responsible for POL (up to 300L/month for the said vehicle) and maintenance of the vehicles till completion of Defects Liability Period.

No separate claim of the Contractor shall be admissible for this facility and shall be deemed to have been covered in the Contractor's overhead & profit.

R-1

16.3 MEASUREMENT AND PAYMENT

No separate payment will be made for the facilities provided under the Clause SP-16; the cost thereof is deemed to be included in the rates and prices of other items entered in the Bill of Quantities.

SP- 17 SITE FACILITIES TO BE PROVIDED BY THE EMPLOYER

17.1 GENERAL

Without prejudice to the generality of the various clauses of the Contract and except for the facilities referred to hereinafter, particular attention is drawn to the obligations of the Contractor to make his own arrangements for providing, maintenance and furnishing of labour camps, staff residences, offices, workshops, stores watching and guarding thereof.

The Contractor shall submit his written demand of his requirements of land for his

SP-15 (R-1)





Ravi Urban Development Authority
Government of the Punjab



Bidding Data

The following specific data for the Works to be bid shall complement, amend, or supplement the provisions in the Instructions to Bidders. Wherever there is a conflict, the provisions herein shall prevail over those in the Instructions to Bidders.

IB Clause Reference	Bidding Data
1.1	Name and address of the Employer: Name: Ravi Urban Development Authority (RUDA) Address: Engineering Wing of RUDA, 5-C Muslim Town, Facing Canal, Near Punjab Group of Colleges, Lahore.
1.1	Name of the Project & Summary of the Works: Project: Smart Services at Chahar Bagh Phase-I Brief summary of work under this contract shall be: • CCTV Surveillance System • Digital Signage • GPON (OFC only as per BOQ • Next Generation Firewall • Fire Alarm System • Multimedia Projector • IP PBX • LAN, WLAN & Access Control System
1.2	Time for Completion for the Works: 300 days
1.3	New Sub-Clause 1.3 is added: "Bids shall be invited on Single Stage Two Envelope Bidding Process."
2.1	Name of the Borrower/Source of Funding: <i>Employer's Own Sources</i>
3.1	Sub-paras (a) to (d) are deleted in their entirety and substituted with the following: a) Bids are invited according to Rule 25 of RUDA Procurement Regulations 2022 (amended); b) Duly licensed by the Pakistan Engineering Council (PEC) in Category C-3 or above. c) Foreign Constructor can submit provisional license with its Bid but the Foreign Constructor will be required to submit standard license after award of Contract and before start of work. Foreign Constructor shall not be eligible to participate in bidding individually. Foreign Constructor shall enter into joint venture with Pakistani Constructor registered with the Pakistan

R1

BD-1 (R1)



Address: 5-C Muslim Town, Facing Canal Road, Lahore



Ravi Urban Development Authority (RUDA)
Implementation of Smart Cities at Chahar Bagh Phase-01
Clarification of Bidding Documents & Pre-Bid Meeting



Pre-bid meeting of subject project was held on **November 28th, 2024 (11:00 am)**. The list of the participants attended the meeting is attached as **Annexure – 1**. Meeting commenced with the recitation of Holy Quran. Following the introduction of the participants, Client gave the presentation on Project Background and scope of work to be implemented. Thereafter, a session of question answer and clarification was held to responded the Bidders Queries. However, the Bidders were advised to forward their queries in writing, and the Client will respond accordingly. If necessary, then Client will respond the clarifications in writing, and may issue the addendum to incorporate any changes cropped up as a result of pre-bid meeting.

As such, Pursuant to **IB Sub-Clause 8.1**, the clarifications of bidding documents required by prospective bidders are as follows;

Sr. No.	Page No.	Requirement in Bidding Document	Questions needs clarification	Employer's Response
1	Volume - II BOQ Page 12	Fiber Optics System	请提供网络拓扑图，以便我们明白网络架构和场景，以免对产品需求理解有偏差。 Please provide the network topology diagram so that we can understand the network architecture and scenarios to avoid misunderstanding of product requirements.	BOQ is for OFC only, don't have any passive elements. Only need to ensure redundancy of OFC
2	Volume - II BOQ Page 19	WLAN System	1、AP的工作模式是什么？是否要求独立工作？要求Built in controller是否指的是要求AP独立部署、独立工作？ 2、请提供系统拓扑图。 3、标书提到大楼共有5层，现AP招标数量仅为4个，都要部署在哪儿？数量够吗？ 1. What is the working mode of AP? Is it required to work independently? Does the requirement "Built in controller" mean that the AP is required to be deployed independently and work independently? 2. Provide the system topology. 3. The bidding document mentioned that the building has a total of 5 floors, the number of AP required is only 4, where are they to be deployed? Is the number enough?	One Ap will act as master and others will be slaves Refer to layout plan and BOQ Locations indicated in layout plans, only 4 AP's required
3	Volume - II BOQ Page 15	LAN Infrastructure System	请提供网络拓扑图，以便我们明白网络架构和场景，以免对产品需求理解有偏差。 Please provide the network topology diagram so that we can understand the network architecture and scenarios to avoid misunderstanding of product requirements.	Refer to Layout Plan and BOQ, star topology to be followed for building





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As such, Pursuant to IB Sub-Clause 8.1, the clarifications of bidding documents required by prospective bidders are as follows;

4	Volume - II BOQ Page 20	CCTV System	标书提到大楼共有5层，现摄像头招标数量仅为9个，请问都要部署在哪儿？数量够吗？这是只针对一层楼的视频监控吗？ The bidding document mentioned that the building has a total of 5 floors, the number of cameras required is only 9, where are they to be deployed? Is the number enough? Is this just a one-floor video surveillance?	Refer to Layout Plan and BOQ
5	Volume - II BOQ Page 6	SMD LED Video Wall (6x9 Feet or higher) • Aspect Ratio: 16 :16 • Resolution: 1538 x 1538	Aspect Ratio: 16 :16和 Resolution: 1538 x 1538 这两条描述与6x9 Feet 相矛盾，请问是否以6x9Feet为准即可？ Aspect Ratio: 16:16 and Resolution: 1538 x 1538 are inconsistent with 6x9 Feet. We want to confirm whether 6x9 Feet shall prevail?	It's 6x9 Ft. Provide resolution and aspect ratio as per manufacturer's recommendation
6	Volume - II BOQ Page 6	• Operating System: Windows 10 or higher	LED拼接屏是显示设备终端，不带操作系统。这里对操作系统的要求不合理，请求去掉。 LED splicing screen is a display device terminal, without an operating system. The requirement on the operating system are unreasonable, so please remove it.	Operating System not required for LED
7	Volume - II BOQ Page 6	• with UPS	这里是需要给LED视频墙配备单独的UPS对吧？这里的备电时间要求多久？ It means we need to equip the LED video wall with a separate UPS, right? How long is the backup time required?	Yes it should have UPS
8	Volume - II BOQ Page 2	Outdoor PTZ Camera 4MP • Memory Card: 128 Gb or higher	这里是指的PTZ相机需要支持128GB的存储卡插槽？还是需要同时提供128GB的存储卡？ Is it referring to the PTZ camera needs to have 128GB memory card slot? Or also need to supply a 128GB memory card?	Not required, but should have as an option





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9	Volume - II BOQ Page 2	IP Based Outdoor ANPR Camera Outdoor PTZ Camera 4MP IP Based Fixed Bullet Camera 5MP	这里是否需要提供摄像头的相关配件，如防雷器、ANPR补光灯等？ Is it needed to provide accessories related to the camera, such as lightning arrester, ANPR fill light, etc.?	Camera Pole to be gronded with proper earthing, complete solution to be provided with all accessories
10	Volume - II BOQ Page 5	Out Door Cabinet, cabinet size: Width: 24 Inch, Height: 24 Inch, Depth: 18 Inch. Built-in Fan.	1、因为UPS和备电电池都需要放在Out Door Cabinet中，24inch*24inch*18inch的尺寸不够，建议至少增大尺寸至1200mm*600mm*600mm。 2、考虑到拉合尔的夏季温度较高，机柜内温度过高会导致其中的设备/电池使用寿命降低，建议将风扇换成空调。 1. Because the UPS and backup battery need to be placed in the Out Door Cabinet, the size of 24inch*24inch*18inch is not enough. We suggest increasing the size to at least 1200mm*600mm*600mm. 2. Considering the high summer temperature in Lahore, the high temperature in the cabinet will reduce the service life of the equipment/battery, it is recommended to replace the fan with an air conditioner.	You may propose the size depading upon the UPS you are recommending that can accommodate all batteries, network switch and PDU Provide as per BOQ





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Sr. No.	Reference in Bidding Documents	Potential Bidders Queries	Employer's Response
1	7. Pole Heights for Signage Screens: The pole heights for signage screens are not mentioned in the tender document. Kindly provide this information.		Existing poles are 8-meter, 10 meter and 12-meter. The bidder may carry out a detailed survey of project site and propose as per the site requirements
2	9. Irrelevant Schedules: Schedules E ("List of Major Equipment") and I ("Construction Camp and Housing Facilities") do not seem relevant to this project's scope. Should these be included in the bidding documents? 1. SMD video wall required for CCR (indoor) as mentioned, But Specs provided are for outdoor. please SMD LED Video Wall (6x5 Feet or higher) LED Screens to be installed in Security Command & Control Center with Video Wall Solution of 2 Slim SMD Screens for video Wall including all Controllers, Matrix, PCs, Graphic Cards complete in all respect and accessories: • Aspect Ratio: 16:16 • Pixel pitch, mm: 3.9mm • Pixel configuration: SMD 3 in 1 • Aspect: Black LED and Better Contrast • Visual Panel Density (dot): 65536 dot/m² • Brightness (cd): 900 cd/m² • Resolution: 1536 x 1536 • Grey scale level: 14 bit (16384 levels) • Color: up to 6.4 trillion • Luminosity level: up to 256 • Viewing angle horizontal / vertical: 160° / 160° • Lifetime: > 100,000 hours • Protection Front / Rear: IP40 / IP20 • Operating System: Windows 10 or higher • Material: Die Casting Aluminum • Power supply: 100-240V / 50-60Hz • Operating Temperature: -40°C to 60 °C • with UPS CONTROLLER The Media controller shall be extra-large resolution, HDMI/DVI video input and Ethernet output ports, complete in all respect	Nos. 1 SMD video wall required for CCR as mentioned in the specs are of outdoor SMD video wall.	The bidder's understanding is correct, the said videowall is proposed for Indoor Use (Command Control Center) The Bidder may propose a solution based on the requirements of Indoor usage.
3	2. Should VMS software support web camera, please clarify VMS: Video Management Software shall integrate with Access Control System, Fire Alarm and CCTV System with minimum following functions: • Two Way Audio • H.265+ compression • PTZ camera control • Motion and Forensic search • Temper Detection • Data security • Remote access • Events and Alarms • Face Detection • Intelligent Video Analytics Software shall support Web Server and Web Camera, Record user defined pre-alarm recording time, User defined map and camera display, Event Log display, Event Map Display, Recording images logs when events occur, Real Time Surveillance screen.	Nos. 1 VMS software shall support web camera?	No, The Bidding documents are clear about the VMS





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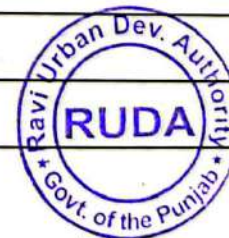


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Sr. No.	Reference in Bidding Documents	Potential Bidders Queries	Employer's Response
	3. Does specialized surveillance hard drive is required only or requires storage based solution . Specialized Surveillance Hard Drive RAID-5 protected (standard configuration), all-in-one Video Management Solution for all channels with 30 days recording capacity. The storage system shall be installed to work with iSCSI-based recording devices. The storage management system shall design to work with MS Windows (Storage) Server based recording device. Nos. 1		Bidder need to propose HDD sufficient for 30 days of recording. 30 days recording is required. The bidder needs to propose the HDD capacity / quantity based on the proposed compression, RAID 5 configuration to be proposed
4	End user is requiring HDDS or complete storage solution? Where is specs and qty of HDD? Specialized Surveillance Hard Drive RAID-5 protected (standard configuration), all-in-one Video Management Solution for all channels with 30 days recording capacity. The storage system shall be installed to work with iSCSI-based recording devices. The storage management system shall design to work with MS Windows (Storage) Server based recording device. Nos. 1		The Bidder need to propose HDD sufficient for 30 days of recording. 30 days recording is required. The bidder needs to propose the HDD capacity / quantity based on the proposed compression, RAID 5 configuration to be proposed
5	if this is required where is qty ? why enduser mentioned storage section on multiple sections? clarify need in one part how many hdds, with/without raid , days , channels etc? d. Video Management Software Video Management Software shall integrate with Access Control System, Fire Alarm and CCTV System with minimum following functions: Two Way Audio; H.265+ compression; PTZ camera control; Motion and Forensic search; Tempers Detection; Data security; Remote access; Events and Alarms; Face Detection; Intelligent Video Analytics; Software shall support Web Server and Web Camera; Record user defined pre-alarm recording time; User defined map and camera display; Event Log display; Event Map Display; recording images logs when events occur; Real Time Surveillance screen. e. Embedded Video Storage Minimum 120 GB with compression; H.265+ Video; Intelligent compression; RAID-5; 30 days recording; Record Mode: Auto Record, Manual Record; Search Video Detector; alarm triggered recording; Intelligent Event; Video Analytics; Web viewer support; Search mode: Date/Event/Time; Redundant power; 2 USB port; HDMI port; 4 10/100/1000 Mbps Ethernet ports; supports HD video management including live video display; PTZ control; camera cycling; and video wall support; Intrusion detection; tripwire crossing detection; loitering detection; fast movement detection; ONVIF support f. Video Wall LED Screens to be installed in Security Command & Control Center with		Only one centralization storage is required to make functional
6	How many NVR they need?		Bidding documents are clear about the requirements.
7	Switches specifications are very generic even street vendor can qualify		For OHWT/Command Control Center, 8 port 10/100/1000 mbps POE enabled Switches are required for OHWT building cameras.
8	In RFP SMD video wall is writer, however during prebid it was asked that LCD video wall and it was mentioned that it can be quoted however, the specs are SMD based and we want to ensure cost effective solution.		The Bidder may propose LCD Video wall as part of their solution .

NOT FOR BID SUBMISSION





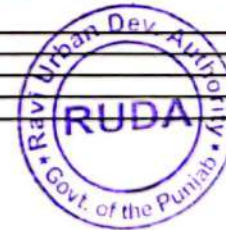
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Sr. No.	Reference in Bidding Documents	Potential Bidders Queries	Employer's Response
9	Scope and Coverage Requirements		
	How many end-users or households are expected to be connected in each area?		FTTx is not included in the scope of Project
	Are there specific high-priority zones (e.g., business districts, residential areas)?		project will be executed as complete, refer to the designs
	Future Scalability		FTTx is not included in the scope of Project
	Should we plan for potential scalability beyond the current user count?		FTTx is not included in the scope of Project
10	Distribution of network cameras		The bidder to please elaborate the requirements?
	Network Performance and Reliability Expectations		
	Service Level Agreements (SLAs)		The Bidder may propose the SLA for all systems after expiry of warranty
	Network storage requirements for Edge + DC		
	Are there specific performance metrics you want to achieve (e.g., latency, bandwidth)?		
11	Redundancy and Backup		It is the part of complete solution, the Bidder may refer to BOQ Volume of Bidding documents
	Should we incorporate redundancy measures (e.g., ring topology, backup links)?		The Bidder may propose as part of technical solution
	Are there critical locations that require additional backup?		Refer to the Bidding Documents
	Technical Specifications and Design Preferences		
	Split Ratio Preferences		FTTx is not included in the scope of Project
12	Do you have a preferred split ratio (e.g., 1:16, 1:32), or would you like us to recommend one based on area density?		FTTx is not included in the scope of Project
	Preferred Network Topology		FTTx is not included in the scope of Project
	Would you like a centralized topology or a distributed model for the Fiber Distribution Hubs (FDHs)?		FTTx is not included in the scope of Project
	Equipment Specifications		FTTx is not included in the scope of Project
	Do you have particular standards for fiber types or splicing techniques?		The Bidder may propose as part of technical solution
13	Link Budget and Power Budget Considerations		
	Environmental Conditions		The bidder may perform a detailed survey and propose a solution.
	Are there known environmental challenges (e.g., high humidity, and extreme temperatures) that may affect power and signal loss?		The bidder may perform a detailed survey and propose a solution.
	Link Budget Planning		FTTx is not included in the scope of Project
	Do you want us to build in extra power margin for areas with potential signal interference?		FTTx is not included in the scope of Project
14	Signal Quality		FTTx is not included in the scope of Project
	Are there quality requirements for signal strength at the ONT level?		FTTx is not included in the scope of Project
	Should we plan for a conservative power budget to ensure reliability?		FTTx is not included in the scope of Project
	Cost and Budget Constraints		
	Budget Range		The Bidder may propose as part of technical solution
15	Cost per Connection		FTTx is not included in the scope of Project
	Do you have a target cost per user or connection?		FTTx is not included in the scope of Project
	Operational and Maintenance Considerations		
	Maintenance Preferences		The Bidder may propose the maintenance plans for all systems after expiry of warranty
	Who will be responsible for ongoing network maintenance and troubleshooting?		FTTx is not included in the scope of Project
16	Do you need remote monitoring capabilities at the command center or mobile access for technicians?		FTTx is not included in the scope of Project
	Spare Parts and Equipment		FTTx is not included in the scope of Project
	Would you like us to include spare parts (e.g., extra OLT ports, splitters, fiber cables) in the initial setup?		FTTx is not included in the scope of Project





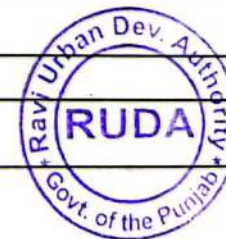
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Sr. No.	Reference in Bidding Documents	Potential Bidders Queries	Employer's Response
	Training and Support		
	Do you require training for your team to manage and troubleshoot the network?		The bidders may propose a comprehensive training schedule based on equipment installed in the Project
	Are there existing teams or systems in place for support, or should we propose a support plan?		The bidders may propose a L1 and L2 training schedule based on equipment installed in the Project
	Timeline and Project Milestones		FTTx is not included in the scope of Project
15	Expected Timeline		
	When do you expect the network to be fully operational?		Refer to the Bidding Documents, Bidding documents are clear about milestones
	Phased Rollout		The bidding documents are clear about Project Timelines
	Would you prefer a phased rollout, with certain areas activated first, or a complete launch at once?		FTTx is not included in the scope of Project
	Milestones		FTTx is not included in the scope of Project
	What are the key project milestones, such as completion of civil works, fiber laying, equipment setup, and testing?		Refer to the Bidding Documents, Bidding documents are clear about milestones
	Legal and Regulatory Requirements		Refer to the Bidding Documents, Bidding documents are clear about milestones
16	Permits and Approvals		
	Are there specific permits or approvals we need to obtain?		Not applicable, The employer has its own dedicated system within the project location
	Compliance Standards		Not applicable, The employer has its own dedicated system within the project location
	Are there regulatory standards we should consider, such as safety and environmental guidelines?		FTTx is not included in the scope of Project
	Local Government Collaboration		FTTx is not included in the scope of Project
	Is there an opportunity to coordinate with local authorities for infrastructure sharing (e.g., existing ducts or poles)?		Not applicable, The employer has its own dedicated system within the project location
17	Additional Services and Add-ons		
	Smart City Features		
	Are you interested in adding features like public Wi-Fi hotspots, security cameras, or IoT sensors?		The Bidder may propose as part of technical solution
	Data Collection and Analytics		The scope is defined in the Bidding Documents, however The Bidder may propose as part of technical solution keeping Financial aspects
	Would you like data collection and analysis on network performance and usage trends?		FTTH/FTTO/FTTx is not included in the scope of project, The scope is defined in the Bidding Documents.
	Customer Support Systems		The bidder to please elaborate the requirements?
	Should we integrate customer support features, like automated outage notifications or a customer portal?		FTTx is not included in the scope of Project
	Future Upgrades and Technology Evolution		
18	5G and IoT Integration		
	Are there plans to integrate 5G or IoT devices with this network in the future?		The scope is defined in the Bidding Documents, however The Bidder may propose as part of technical solution keeping Financial aspects
	Technology Upgrades		The bidder's understanding is correct. It will be executed in next phases/extension
			The scope is defined in the Bidding Documents, however The Bidder may propose as part of technical solution keeping Financial aspects





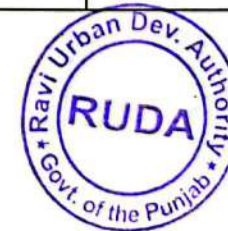
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	Would you prefer using easily upgradable equipment in the event of future tech advancements?		The scope is defined in the Bidding Documents, however The Bidder may propose as part of technical solution keeping Financial aspects
	Long-term Vision		The scope is defined in the Bidding Documents, however The Bidder may propose as part of technical solution keeping Financial aspects
	How do you envision this network evolving over the next 5-10 years?		The bidder to please elaborate the requirements?
19	IP Based Outdoor ANPR Camera with Software • Image Sensor Resolution: 2 MP Starlight camera technology with excellent lowlight performance • Recognition Range: 80m or higher	ANPR相机将被用在园区出入口道路上，用于进出车辆车牌记录对吗？ 如果是，那么请澄清： 1、单方向（驶入方向/驶出方向）的道路宽度是多少？因为2MP的相机只能覆盖3m宽的范围，如果道路过宽，2台2MP的相机将无法覆盖场景需求。 2、对于记录进出车辆的ANPR相机通常是安装在3.5m左右高的倒L杆上，为了保证高质量的车牌识别率，它的Capture Distance一般在15m左右。招标文件要求Recognition Range: 80m or higher 是不合理的。建议取消此条描述。 ANPR cameras will be used on the entrance and exit roads of the park to record the license plates of incoming and outgoing vehicles, right? If yes, then please clarify: 1. What is the width of the road in one direction (inbound/outbound)? Because the 2MP camera can only cover a range of 3m wide. If the road is too wide, two 2MP cameras will not be able to cover the scene needs. 2. The ANPR camera for recording incoming and exit vehicles is usually installed on the inverted L-rod with a height of about 3.5m. In order to ensure high-quality license-plate-recognition rate, its Capture Distance is generally about 15m. It is unreasonable to ask for "Recognition Range: 80m or higher". It is advised to cancel this description.	The bidder's understanding is correct. The Lane width is 3 meters, whereas the 15 meter distance is sufficient for traffic monitoring and ANPR purpose. However based on advancement of technologies, the Bidder may propose an advance solution which may cover One Camera Multiple Lane for Car number plate reading/recognition and surveillance.
20	4. PTZ Controller: USB powered	CCTV-oriented keyboard的常规供电方式为DC12V/POE，USB供电不适用，请问是否可以去掉"USB powered"的限制？ The CCTV-oriented keyboard uses DC12V/POE as the normal power supply mode. USB power supply is not applicable. Is it possible to remove the "USB powered" restriction?	The Bidder understanding is correct, and propose their own solution
21	14. Video Management Software shall integrate with Access Control System, Fire Alarm and CCTV System with minimum following functions	要求VMS与火灾报警集成，请问需要实现什么功能？ 将火灾报警信息推送并显示在VMS系统中即可吗？ VMS is required to be integrated with fire alarm. What functions should be implemented? Is it enough to push the fire alarm information and display it in the VMS system?	Not required at this phase of project deployment, but should have an option for future scalability





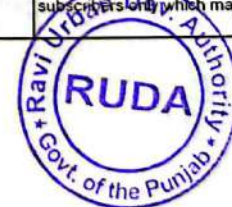
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22	OFC Cable (6 Core) - G.652D UG 24 Fiber- G.652 UG 48 Fiber- G.652 UG 96 Fiber- G.652	光缆这里没有详细的规格描述，请澄清这些光缆是否将被敷设在地下管道中？管道是硅芯管还是镀锌钢管？以便我们来确定提供GYTA光缆是否能符合您的场景需求。 There is no detailed specification description of optical cables here. Please clarify whether these optical cables will be laid in underground pipelines. Is the pipe silicon core pipe or galvanized steel pipe? Please clarify so that we can determine if providing GYTA cable is suitable for your scenario.	Yes, the cables will be laid underground HDPE pipes
23	2. Web Based Interface, Record entry and exit events	客户端软件是否被接受？ Is the client software accepted?	Web interface is essential
24	9. Door Controller Supply of 4 Door Access Control System to control, Four Wiegand interfaces for up to 2 card readers, network connection to the host system and Compact Flash memory (2 GB). Host data transfer encrypted, Individual electronic verification of plugs and outputs, IP30. Supply of enclosure with single din rail, power supply unit, 2 hours battery back up and cables for controller	我们的产品形态是一体机，将readers和controller集成在一起的，所以不再需要额外单独的Door Controller。那这一项Door Controller是否可以不再单独报价及供货？ Our product form is an all-in-one machine, which integrates readers and controller together, so an additional Door Controller is no longer needed. Can we choose not to offer and supply the Door Controller separately for this item?	Door controllers shall be provided separately to ensure floor level controlling and operations, refer to the bidding documents for specifications and quantities
25	BOQ	因产品形态存在差异性，有些产品参数并不能100%与招标要求一致，会存在正偏差和负偏差的情况，但是可以满足客户的场景需求，请问这种情况是否被接受？ Due to the differences in product forms, some product parameters are not 100% consistent with the bidding requirements, and there will be positive deviation and negative deviation, but they can meet the customer's scene needs, may we ask whether this situation is accepted?	The bidder may propose solution based on their expertise
26	Volume III h. Core Switch, Switching capacity ≥ 1.5 Tbit/s, and Volume II Core Switch: Shall provide more than 30Tbps Switching Capacity	BOQ和技术要求中对产品参数描述不一致，以哪个为准？ The description of product parameters in BOQ and technical requirements is inconsistent. Which one shall prevail?	Core switch switchign capacity should be more or equal to 1Tbps
27	Volume III i. Distribution Switch, switching capacity: 1.56 Tbit/sec or higher, Optical interface: SFP Plus+ ports, 4 QSFP Plus ports, and Volume II Distribution Switch : Should have at least 12 x 10G SFP+ Ports Should have at least 02 x 40G QSFP+ Ports Should support more than 2Tbps switching capacity	BOQ和技术要求中对产品参数描述不一致，以哪个为准？ The description of product parameters in BOQ and technical requirements is inconsistent. Which one shall prevail?	Distribution switch switchign capacity should be more or equal to 400Gbps
28	Volume III Software of IP PBX: More than 1000 subscribers and Volume II Software of IP PBX: More than 50 subscribers,	BOQ和技术要求中对产品参数描述不一致，以哪个为准？ The description of product parameters in BOQ and technical requirements is inconsistent. Which one shall prevail?	The proposed system should be modular to support 1000 subscribers. Current requirement is for 50 subscribers only which may be increased in the future.





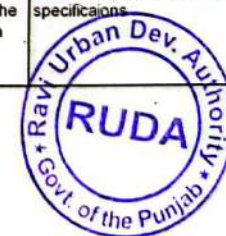
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Sr. No.	Reference in Bidding Documents	Potential Bidders Queries	Employer's Response
29	Drawings	图纸显示的建设内容及数量与招标范围内容和数量对应不上。请明确这些图纸与本次招标内容的关系？ The construction content and quantity shown in the drawing do not correspond to the content and quantity of the bidding scope. Please clarify the relationship between the drawings and the bidding content.	The drawing are for conceptual working. The bidder may propose their solution.
30	OPTICAL FIBER CABLE NETWORK	在BOQ中只提到了光缆线缆，那么GPON组网所需的OLT/ODN/ONU等网络设备是否也在本项目的范围内？ 如果是，请提供这些设备的规格和数量。 Only fiber optic cables are mentioned in the BOQ, so are network node devices such as OLT/ODN/ONU required for GPON networking falls in the scope of this project? If yes, please provide the needed specifications and quantity of these devices.	GPON is not included in the scope
31	a. Camera Type I (ANPR)	ANPR相机的使用场景，需要覆盖几车道？需要提供杆件吗？ For ANPR camera use scenario, how many lanes need to be covered? Do we need to supply rods?	Scope of ANPR camera is to cover three lanes. Yes, rods are to be proposed by the bidder
32	Authorization letters for the proposed equipment/materials from manufacturers. Certificates ensuring warranty support and spare parts availability. Certificates ensuring proposed Equipment is not end of life.	需要提供左侧所列文件的产品范围是什么？ What is the product range that requires the authorization letters and certificates listed on the left?	Refer to BoQ; the authorization letters and certificates should be on the name of the Employer, from OEM, Authorized Channel Partner or Distributor
33	6. The Contractor shall provide warranty for all equipment for a period of one (01) year except Computing whose warranty shall be of three years (03) through authorized local distributor commencing the hand-over and acceptance date to the Employer.	1、需要由当地经销商提供质保的产品范围是什么？ 2、根据BOQ中对质保要求的描述，是否只有防火墙需要3年质保，其它都是一年？ 1. What is the range of products that require warranty from local distributors? 2. According to the description of the warranty requirements in BOQ, is it ture that only the firewall requires a 3-year warranty, and the rest require a 1-year warranty?	1: Refer to the BoQ, the warrenty required for all systems 2: Yes the bidder's understanding is correct.
39	12.Cabling (Power) Nos. 3000	这个线缆的单位写的是Nos.,请澄清具体是m还是ft. The unit of the cable is Nos. Please clarify whether it is m or ft.?	3000 Feet
40	1.5 sq.mm fire resistant 2 core (120 min) LSZH enhanced cable complying BS5839, BS6387, EN50200, in already installed conduit.	这里的线缆符合等效标准-中国国标GB/T12706.1-2020，是否被接受？ The cable here meet the equivalent standard - China national standard GB/T12706.1-2020, is it acceptable?	The bidder may provide the equivalancey certificate prior to approvals.
41	j. 8 Port Poe+ Access Switch Fixed configuration PoE+ enabled manageable layer-2 switch with Rack Mount Kit, 8-Ports 10/100/1000 Mbps RJ-45 interface for camera connectivity over UTP, 2 x 10G Ports for uplink connectivity (SFP Interface), 802.3bt Type 3 compliant built-in power supply, support PoE+ cameras on all 8 ports up to 60-watt power simultaneously, power cable, IP67 rated with installation, configuration & testing.	行业内POE交换机的防护等级常规为IP40，它完全可以满足智能化系统的使用环境需求，而招标所述的IP67提出了过高的要求，行业内几乎无产品可满足，视为不合理需求，请求修订。 The protection level of POE switches in the industry is generally IP40; which can fully meet the needs of the use environment of intelligent systems. The IP67 mentioned in the tender puts forward excessive requirements which almost no products in the industry can meet, which is regarded as unreasonable demand, so it is requested to revise.	The bidding documents are clear about Products specifications





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Sr. No.	Reference in Bidding Documents	Potential Bidders Queries	Employer's Response
42	SMD LED Video Wall (6x9 Feet or higher) Aspect Ratio: 16 :16	上边要求了屏的尺寸为6*9 ft. 那屏的比例应该是6:9, 但下边又提到了横纵比为16:16, 相矛盾, 请求修订 The first line required the screen size of 6x9 Feet, the ratio of the screen should be 6:9, but the second line mentioned the horizontal and vertical ratio (Aspect Ratio) of 16:16, which is contradictory, so it is requested to revise.	Please propose as per standard and manufacturer recommendation
50	Do you need all 8 RJ45 firewall ports, or will fewer suffice for 3-4 ISP links? Reason to mention 45Gbps throughput when 40Gbps is already specified in the list line Firewall throughput minimum 40 Gbps. Uninterrupted Software upgrade capability. Minimum 4 x 10GE SFP+ slots. Minimum 8 x GE RJ45 and 8 x Combo slots. SATA hard disk (240 GB/960 GB/1000 GB/1920 GB) and should support firewall throughput >=45Gbps; NGEW Throughput (IMIX) >=6Gbps; Threat Protection Throughput (Enterprise IMIX) >=5Gbps; IPSec VPN throughput (AES-256, 1420 byte) >=25 Gbps. Application controlling and IPS throughput >= 15 Gbps; Application controlling and IPS throughput >= 15 Gbps; Concurrent connections per second >= 15,000,000; New connections per second >=400,000;		An addendum to this effect shall be issued, which shall be an integral part of the bidding document.
51	2. As pointed out in pre-bid meeting, there is no provision/list of maintenance parts in the bid documents so it is suggested to make a provision/list of maintenance parts. Incase of late decision, the import of maintenance parts may take time and excessive cost.		Currently the scope of work does not contain any spare parts / list but it is recommended that, the bidder may propose 20% as spare parts for the critical components based on their understanding / expertise. This may be under separate cost head, it shall not effect the overall proposal.
52	3. To ensure in writing, the Employer has to confirm that electricity supply arrangements are not part of this bid. Moreover, all conduits and sleeves required for smart services work including cable pulling arrangements like rope etc, are not mentioned in the bid and it is deemed to be included in the Civil Works Contractor. These arrangements should be done by the Employer at no cost to us.		During testing and commissioning, the Contractor shall manage his own arrangements of electricity supply at site at his risk and cost. All conduits and sleeves required for smart services work including cable pulling arrangements like rope etc, shall be made available to the Contractor.
53	B. Bill of Quantities (BOQ) Volume II 1. OHWT Fire Alarm system: In the description of items 3 to 7, conventional type is mentioned where is Technical Specifications mentioned the addressable fire alarm system. It has financial implications so kindly explain.		Conventional fire alarm panel and devices are required for OHWT building. Please propose conventional fire alarm.
54	C. Specification Volume III 1. Sub-Clause SP-16.1 (a): This para is not relevant to the heading SP-16 and needs clarifications. 2. SP-16.1 (B): Please mention the size of containers. 3. SP-16.1 (B) i: Please give list of furnishes as mentioned under para (b). 4. SP-16.1 (B) ii: Please give details and specifications of communication media devices required under this head. The limit of monthly amount for mobile cards should be intimated, Fax should be obsolete, instead of that other communication means like email may be used. Please propose. 5. SP-16.1 (B) iv: Please give details and specifications of laptop, desktop and printers. 6. SP-16.1 (B) v: Please give the detail, size, capacity of the washroom, Toilet facilities. 7. There is no kitchen for offices. 8. SP-16.2: Transportation: Renal brand new (0 meter) vehicle is not feasible. Please give a margin of 2,3 years old model in bidding documents. And daily timings of vehicle and driver also need clarification.		An addendum to this effect shall be issued, which shall be an integral part of the bidding document. Contractor shall use his common understanding by keeping in mind the smooth operations of project for establishment of site offices, laptops, printers etc.





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Sr. No.	Reference in Bidding Documents	Potential Bidders Queries	Employer's Response
9.	SP-16.3: who will be the proprietor of SP-16 facilities, devices etc, after the completion of the contract?		
55		1. "Conditions of Contract for Works of Civil Engineering Construction-General Conditions FIDIC 2017 Red Book, Reprinted 2022 with amendments" are used for the E & M Works of Smart Services Contract. For the said services where delivery, installation and testing & commissioning of the Works are involved, these Conditions of Contracts are related to the civil works and are not applicable for E & M works for which another FIDIC book may be required. Please clarify.	The best suitable document has been adopted in compliance of PEC Regulations.
56		The above requirements are generally expressed as "Valid Pakistan Engineering Council (PEC) Registration in relevant license Category" (see annex) without limiting or emphasizing "specialization in codes: "CE-10, EE-04, EE-05, EE-11 (General Electrical Works Only)", and most projects requires no PEC license. It is strongly recommended that conditions be relaxed to facilitate and introduce healthy competition.	Requirement of PEC registration and specialization codes Request as stipulated in Bidding Documents is a legal requirement in accordance with PEC regulation. The waiver of the same is regretted please.
57		We are in the process of applying for the "Provisional License for Foreign Constructors to submit in Tenders" and it is taking a long time to get the license. Is it an either/or a must for the conditions that "Foreign Constructor can submit provisional license with its Bid" and that "Foreign Constructor shall enter into joint venture with Pakistani Constructor registered with the Pakistan Engineering Council in equivalent/compatible category"?	Provisional license is mandatory for the Foreign Bidder to participate in bidding process whether Foreign Bidder participate in bidding as JV member or Lead Partner.
58		Provisional license ? Please advise on what does "Provisional license" mean and how to get it?	Please refer to PEC website and corresponding concerned officer.
59		Is it possible to communicate and reach a consensus among the members within a consortium to pool the bid bond to the bank account of one of the consortium members; that is, it is possible for one of the consortium members to issue a bid bond on behalf of the consortium?	The Bid Security must be in the name of the JV or lead member on behalf of the JV.
60		What are the documents that need to be certified by the embassy? Is it okay to only certify business licenses and financial statements?	
61		"The Convention" is an international treaty with the widest scope of application and the largest number of contracting parties under the framework of The Hague Conference on Private International Law, aiming at simplifying the procedures for transnational circulation of official documents. Since November 7th, official documents sent by China to other contracting parties can be sent to other the parties for use only by handling the Apostille stipulated in The Convention, without the need for consular certification from China and embassies and consulates in China. Official documents of other contracting States are sent to the mainland of China for use, only the additional certificate of that country is required, and the consular authentication of the local embassies and consulates of that country and China is not required. "Is it possible to use the certificate of Apostille stipulated in The Hague Convention instead of document certified by Pakistani Embassy?	All supporting documents executed outside the Pakistan and the bidder wish to submit them as a part of their bid are required to be certified by the Pakistan Embassy in the respective country. The verification issued by the Apostille outside the Pakistan is to be attested by the Embassy of Pakistan in respective country





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62		The requirement for certification by the Pakistani Embassy is time consuming. Could this be modified that all documents required to be submitted for bidding for projects to be executed outside Pakistan must be notarized by an international notary public or certified by the Embassy, or that the notarization by the notary public be provided with the bidding documents and the Embassy's certification be completed after the winning of the bid.	The documents executed outside the Pakistan and duly verified by the Apostile are acceptable provided such documents also attested by the embassy of Pakistan.
63		What are the rules for judging the Technical Proposal and Technical Bid? Is there a clear scoring criteria? What impact does it have on the selection of the winning bidder (who offers the lowest price) for the project?	The assessment of Technical Bid shall be done in accordance with the Criteria prescribed in the bidding documents. However, there is no specific score assigned to the Technical Proposal. As such, such components like method statement, schedule being the part of Technical proposal shall be judged on the basis of qualitative assessment in terms of technical soundness, best industry practices proposed, and being responsive to the requirements prescribed in bidding documents.
64		对于Average Working Capital (AWC), Average Net Worth (ANW), Total Assets, Average Annual Turn Over, 提供2020-2022年的审计报告是否能得分? 1. For Average Working Capital (AWC), Average Net Worth (ANW), Total Assets, and Average Annual Turn Over, can we get the marks if we provide Audited Statements for 3 years from 2020 to 2022? 2. The requirement is the Audited Statements must not be older than last 05 years. We want to confirm is it "arbitrary three years" or "continuous three years" within last 05 years?	The assessment of financial competence in terms of average working capital, average net worth, total assets and average annual turnover shall based on last three fiscal years. However, bidder may opt to submit their financial statements for last five (05) years.
65		It is suggested that the facilities to be provided under SP-16 [Provision of facilities for the Engineer/Employer] are proposed to be pay items and treated as provisional sums. In this way, it will be helpful in healthy bid competition and at the time of execution minimize the operational conflicts and problems.	Please refer to Sub-clause 16.3 of SP thereby prescribing that no separate payment will be made for the facilities provided under Clause SP-16 of SP, the Bidder shall incorporate / embed the cost in respect of such facilities in the rates and prices of other items listed in the BOQ.
66		With reference to Clause # 14.2 on page 16 of volume I, a bank guarantee is a must or we can provide insurance guarantee of a reputable insurance services providers in Pakistan.	Please refer to sub clause 14.2 of PCC.
67		With reference to Clause # 3.1 in BD-1 of volume I, the mentioned PEC codes CE-10, EE-05 are seems irrelevant because one is purely related to Civil works and other is related to High voltage systems installation. Our relevant codes are EE-02 & EE-08. Kindly suggest on this if we have to abide by the proposed codes by RUDA.	The requirement of registration with PEC in subcategory CE 10 and EE05 is waived off. An addendum to this effect shall be issued. This addendum shall be an integral part of bidding documents.





Ravi Urban Development Authority (RUDA)
Implementation of Smart Cities at Chahar Bagh Phase-01
Clarification of Bidding Documents & Pre-Bid Meeting



Pre-bid meeting of subject project was held on November 28th, 2024 (11:00 am). The list of the participants attended the meeting is attached as Annexure – 1. Meeting commenced with the recitation of Holy Quran. Following the introduction of the participants, Client gave the presentation on Project Background and scope of work to be implemented. Thereafter, a session of question answer and clarification was held to responded the Bidders Queries. However, the Bidders were advised to forward their queries in writing, and the Client will respond accordingly. If necessary, then Client will respond the clarifications in writing, and may issue the addendum to incorporate any changes cropped up as a result of pre-bid meeting.

As such, Pursuant to IB Sub-Clause 8.1, the clarifications of bidding documents required by prospective bidders are as follows:

Sr. No.	Reference in Bidding Documents	Potential Bidders Queries	Employer's Response
68		这里提到质保需要由当地授权经销商负责似乎是不合理的，因为并不是所有的品牌在当地都有代理商。分别提供设备原厂和中标单位的售后服务承诺，进行双售后服务保障，可以吗？ It seems unreasonable to mention that the warranty should be undertaken by the local authorized distributor. Because not all brands have local agents. Is it possible to provide double after-sales service guarantee: the after-sales service commitment of 1. the original equipment manufacturer and 2. the winning bidder?	Regretted. Please refer to the Clause 6 of Preamble to the Bill of Quantity
69		因产品形态存在差异性，有些产品参数并不能100%与招标要求一致，会存在正偏差和负偏差的情况，但是可以满足客户的场景需求，请问这种情况是否被接受？ Due to the differences in product forms, some product parameters are not 100% consistent with the bidding requirements, and there will be positive deviation and negative deviation, but they can meet the customer's scene needs, may we ask whether this situation is accepted?	Regretted, Please. Please refer to corresponding requirement / specifications prescribed in bidding docs.
70		6. Double Taxation Clarification: There is ambiguity regarding double taxation in the financial table: a. Equipment supply unit prices should include service costs, meaning equipment price + 18% GST + service price = unit/total price. b. In the Bill of Quantities (Main Summary), 16% PST is applied to the subtotal. c. This implies that equipment already taxed with GST will be subjected to PST again, resulting in double taxation. Please clarify this.	The contractor is supposed to quote the bid price as per BOQ and Bidding requirement. Tax shall be applicable as per law.
71		The adjustment data is linked to unskilled labor and high-speed diesel. Since equipment will be purchased in USD, fluctuations in the USD to PKR exchange rate could impact the bidder. Please clarify how this will be handled.	Bidder shall quote the Bid Price in PKR. As such, the price adjustment shall be applicable in PKR in terms of price adjustment formula prescribed in bidding document.
72		Typically, PPRA tenders include the estimated project cost, but it is missing from this tender. Please provide the estimated project cost.	Regretted, Please.
73		We request an extension of at least 14 days for the bid submission deadline. Due to the recent situation in Pakistan, it was not possible for us to contact our suppliers, both locally and internationally.	Bid Extension granted by the Employer upto 16/12/2024. Refer RUDA official Website for Corrigendum https://ruda.gov.pk/advertisements
74		What is the invoicing mechanism, and what are the payment terms in terms of days after successful invoice submission and certification?	Please refer to the clause 14 of PCC
75		4. Payment Terms for Milestones: The payment terms outlined on page 118 are: 50% on equipment delivery to the site 30% on installation 20% on commissioning and testing Please confirm the maximum time RUDA will require for testing and final acceptance to release the remaining 20%.	The time required for testing and acceptance shall be reasonable and practicable, and after the contractor request for inspection to the Engineer's Representative.





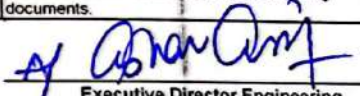
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As such, Pursuant to **IB Sub-Clause 8.1**, the clarifications of bidding documents required by prospective bidders are as follows:

Sr. No.	Reference in Bidding Documents	Potential Bidders Queries	Employer's Response
76	h. Core Switch, page no. SP-25 of Technical Specifications		An addendum to this effect shall be issued. This addendum shall deem integral part of bidding documents.
77	i. Distribution Switch Capacity, page no. SP-25 of Technical Specifications	Distribution Switch Capacity?	An addendum to this effect shall be issued. This addendum shall deem integral part of bidding documents.
78	Firewall System, BOQ, page no. 11 of 25, Sr. No. 01	Firewall Throughput?	An addendum to this effect shall be issued. This addendum shall deem integral part of bidding documents.


Executive Director Engineering
Ravi Urban Development Authority (RUDA)

