

**PRE-QUALIFICATION DOCUMENT  
No. 104102023-1**

**FOR**

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**PROVISION OF TECHNOLOGY SOLUTION  
FOR  
PUNJAB POLICE INTEGRATED COMMAND, CONTROL &  
COMMUNICATION (PPIC3) CENTER  
FAISALABAD**

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**Punjab Information Technology Board (PITB)**

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## **1 GENERAL**

Punjab Information Technology Board (PITB) intends to invite Prequalification (PQ) proposals from interested Applicant(s) for the provision of TECHNOLOGY SOLUTION FOR PUNJAB POLICE INTEGRATED COMMAND, CONTROL & COMMUNICATION (PPIC3) CENTER FAISALABAD SPONSORED BY PUNJAB SAFE CITY AUTHORITY, PUNJAB POLICE DEPARTMENT. All well-reputed, registered and established firms having requisite technical, financial and managerial capabilities are invited to participate in the PQ process for the above said project, through submission of their proposals.

## **2 PURPOSE OF THIS DOCUMENT**

The purpose of this document is to have understanding of the available competencies, solutions, tools and best practices including implementation of TECHNOLOGY SOLUTION FOR PUNJAB POLICE INTEGRATED COMMAND, CONTROL & COMMUNICATION (PPIC3) CENTER FAISALABAD SPONSORED BY PUNJAB SAFE CITY AUTHORITY, PUNJAB POLICE DEPARTMENT, as well as to prequalify eligible Applicant(s), capable of accomplishing the tasks outlined in this document. The Applicants are required to provide profiles of their firms comprising experience, personnel and financial strength along with proposed solutions including but not limited to the Applicant's methodology and technology for implementing the TECHNOLOGY SOLUTION FOR PUNJAB POLICE INTEGRATED COMMAND, CONTROL & COMMUNICATION (PPIC3) CENTER FAISALABAD SPONSORED BY PUNJAB SAFE CITY AUTHORITY, PUNJAB POLICE DEPARTMENT.

### **TERMS AND CONDITIONS OF THE PRE-QUALIFICATION**

#### **Definitions**

In this document, unless there is anything repugnant in the subject or context:

- I. Applicant means the party which submits a proposal in response to this PQ Document.
- II. "Authorized Representative" means any representative appointed, from time to time, by the Applicant, Purchaser or Client.
- III. "Purchaser" means the Punjab Information Technology Board (PITB), or any other entity for the time being or from time to time duly appointed in writing by the Government to act as Purchaser for the purpose.
- IV. "Client" means PITB, Government of the Punjab.
- V. "Day" means calendar day.
- VI. "Employer" means Purchaser and/or Client.
- VII. "PQ Document" means the Pre-Qualification Document in consideration.
- VIII. "Joint Venture" means a legal entity formed under the laws of Pakistan to submit a proposal and participate in subsequent tendering processes in response to this PQ Document.
- IX. "Person" includes an individual, an association of persons, firm, company, corporation, institution and organization, etc.
- X. "Prescribed" means prescribed in the PQ Document.

**Disclaimer**

This PQ document for the provision of TECHNOLOGY SOLUTION FOR PUNJAB POLICE INTEGRATED COMMAND, CONTROL & COMMUNICATION (PPIC3) CENTER FAISALABAD SPONSORED BY PUNJAB SAFE CITY AUTHORITY, PUNJAB POLICE DEPARTMENT ('the Project') contains brief information about the project and process for pre-qualification of Applicants for RFP stage. The purpose of the document is to provide the Applicants with information to assist the formulation of their PQ proposal and to pre-qualify interested Firms / Applicants / Contractors for the RFP Stage.

While all efforts have been made to ensure the accuracy of information contained in this PQ Document, this document may not contain all the information required by the Applicants. The Applicants should conduct their own independent assessment, investigations and analysis and may prepare their proposals in the light of relevant experience and international best practices. Punjab Information Technology Board (PITB) or any of its employees or advisors/contractors, shall incur no liability under any law, statute, rules or regulations as to the accuracy or completeness of the PQ Document.

PITB reserves the right to change any or all conditions / information set in this PQ Document by way of revision, deletion, update or annulment through issuance of appropriate advertisement as the Client may deem fit in accordance with the PPRA Rules 2014. Participation in the PQ process does not qualify any Applicant for the next stage of the procurement process.

PITB will not entertain or be liable for any claim for costs and expenses in relation to the preparation of the PQ proposal to be submitted in terms of this Document.

### **3 PROJECT BACKGROUND**

The increasing complexity of social and economic life is driven by rapid developments in technology, communication, and transportation. New inventions, new technologies, changing preferences and external shocks are constantly altering and modifying the most fundamental structure within the environment. Increasingly, organizations operate in turbulent environments with unexpected changes, uncertainty, and lack of control, complex decisions, group interdependencies, high performance demand and unclear and fuzzy boundaries.

Today's complex policing environment requires enhanced strategic police capabilities in protective security (including tightened ports, airports and border security) and combating terrorism. In fact, there is a critical need for a holistic approach to policing that covers:

- Serious and organized crimes
- Counter-terrorism and extremism
- Impacts of global instability and conflicts
- Business Continuity and emergency response management
- Public order events
- Critical National Infrastructure policing

Operating within a complex and dynamic security environment requires a high-level strategic approach that incorporates an overarching security strategy, comprehensive risk management, fully joined-up governance and effective Program support. The strategy needs to be fully integrated into the national security strategy and achieve high levels of international confidence in the security arrangements.

There needs to be a Program of modernizing the police systems to deliver better and more flexible resources to meet the requirements of a dynamic and complex policing environment. Operational business processes, facilities and ICT infrastructure need to be aligned to ensure that they support this evolving capacity, capability, efficiency and effectiveness approach. In short, there is a need to:

- Better manage the demand for a police response
- Develop a community services ethos within the police force
- Engender a more professional approach within the police force that is better able to address the
- Security situation and meet the need of the citizens
- Provide information and intelligence to ensure that informed decisions are made with regard to priority and allocation of the most appropriate resources in response to calls for assistance
- Ensure that the police are efficient and effective

The overall objective of the Integrated Command, Control and Communication (IC3) Centre Program to modernize the infrastructure, systems and capabilities for the police to proactively manage the security situation and to professionalize the police response to incidents by moving towards directed and mission-focused deployment of resources. IC3 will bring together the innovative Concept of Operations (ConOps), quality focused business processes with an integrated technical solution to provide an operational solution that delivers:

- New technology and process infrastructure to provide real-time information and intelligence to facilitate field commanders making evidence-based decisions in operationally critical situations
- Ability to have access to and share information within the Punjab Police departments as well as external agencies to ensure seamless service delivery to the public and a more timely and effective response
- Provision of information and intelligence to ensure that informed decisions are made with regard to priority and allocation of the most appropriate resources in response to calls for assistance
- Provision of high-quality emergency response systems to the residents and visitors

- Delivery of flexible operational systems that can evolve and expand with the evolving needs
- Increased capacity that acknowledges foreseeable growth profiles in the future.
- The design and implementation of a consolidated IC3 organizational operating model to optimize cross agency coordination, communication, and effectiveness of public safety and emergency services delivery.

The overall aim of the IC3 Program is to improve Punjab Police's operational efficiency by deploying new hardware using up-to-date technology that will enable the Police to adopt more efficient working practices and new operating concepts. The role of the Police will not fundamentally change by the introduction of the IC3; the efficiencies relate to how that role is carried out from both process and performance perspectives. In progressing towards greater efficiencies, one of the IC3 aims is to bring together various elements of Punjab Police operation to work as a more unified team. The IC3 technology solution incorporates the following major components:

- **Command and Control System** - including Command and Control Incident Management, Geographic Information System (GIS), Resource Management System, Integrated Automatic Resource Location System (ARLS), and Mobile Data Terminals
- **Integrated Video Management System (IVMS)** – including System Control and Management, Digital Recording and Archiving, Specific Analysis Tools, Video Walls and Control Systems, and In-Vehicle Video Systems
- **Field Equipment** – including Strategic Surveillance Locations, Surveillance of Public Places, Surveillance of Intersections, Surveillance of roads, Surveillance of Iconic Buildings / Locations, Camera installation and Security and power and connectivity
- **Implementation and Fit-out** – including Data Centre fit-out, structured cabling, furniture and desktop as well as system integration and testing

#### **4 BRIEF SCOPE OF WORK**

The scope mentioned below is high level scope of work. The detailed scope of work shall be shared with the shortlisted Applicants after the prequalification process at RFP stage.

The scope of work is limited to areas under the jurisdiction of Faisalabad City. The key components of the scope of the work are provided below. The components may be added or deleted at the RFP stage.

- a) Video surveillance including, Installation of cameras and set up of Command-and-Control Centre and live feed of cameras.
- b) Data center including Design and setup of primary Data Centre, Deployment and Installation of hardware including servers, storage, racks, core router, switches and firewall.
- c) Providing redundant connectivity through reliable media from cameras to Command-and-Control center and DC, Detail network diagram with network architecture and provide all active and passive equipment.
- d) Command & Control Centre hardware including video Wall with allied accessories, Data center, LAN, PC, printers, scanners, switch/router, building security equipment etc.
- e) Integration including provisioning and Integration of the Security and Surveillance system with existing databases as per industry standards, Command and Control, GIS, Resource Management System, Computer Telephony Integration Applications, Integrated desktop, crime and intelligence Systems and GIS and location services.
- f) Trainings on Key element and is critical to the success of the IC3 Centre Program and Comprehensive training program for management, operational, maintenance, and support personnel.
- g) The Contractor shall be responsible for complete technology transfer to the procuring agency.
- h) The Contractor shall be responsible for obtaining "Right of Ways", wherever needed.

The Geographical Scope of the project is approximately covering entire city of Faisalabad. Indicative area to be covered by surveillance system has also been provided in **Annexure-B**.

The project consists of the two Lots, details of which are given:

- **Lot No. 01 – Surveillance System, NOC & Data Center on Turn-key Basis**
- **Lot No. 02 – Infrastructure, Optical Fiber on Lease Basis**

**LOT DETAILS**

**Lot No. 01 – Surveillance System, NOC & Data Center on Turn-key Basis**

Sr. #	Item	Description
1	CCTV and Field Equipment	Comprehensive CCTV solutions including various camera types (e.g., ANPR, dome, PTZ, outdoor) equipped with advanced features for precise monitoring. Essential field equipment such as mounting brackets, power distribution units, and weatherproof enclosures must be included to ensure uninterrupted surveillance in various environments.
2	Infrastructure Readiness	The scope involves preparing sites with appropriate poles designed to support the weight and reach of CCTV equipment. Integration of power and data conduits into the infrastructure is essential for secure equipment installation. Rigorous site analysis and proper grounding systems must be implemented to guarantee both safety and optimal performance.
3	Network Connectivity	To establish stable high-bandwidth access networks, firms should deploy advanced networking equipment. Redundant routing protocols must be implemented to ensure seamless failover in case of network disruption. Quality of Service (QoS) mechanisms need to be in place to prioritize video data transmission.
4	Control Room Setup	The design and configuration of fully functional control rooms require high-resolution video walls with multi-screen display capabilities for visualizing multiple camera feeds simultaneously. Operator computers must meet the processing power requirements for real-time video decoding and analysis. Networking infrastructure should include VLAN segmentation and firewall configurations to secure control room operations.
5	Core Network Infrastructure	The design and implementation of a robust core network infrastructure encompassing switches, routers, and firewalls is crucial to ensure secure and efficient data communication across the system. Redundant path configurations with protocols should be implemented to ensure fault tolerance. The implementation of Intrusion Detection and Prevention Systems (IDPS) helps safeguard against network breaches.
6	Compute Resources	Providing essential computing resources involves deploying high-performance servers with multi-core processors to handle real-time video analytics. GPU servers with CUDA support enhance video processing capabilities. Hyper-converged infrastructure (HCI) should be designed for easy scalability to accommodate future expansion. Precision cooling solutions with smart racks to maintain optimal temperature levels in densely packed rack configurations.
7	Power and Backup Solutions	Addressing power requirements necessitates UPS units with online double conversion to provide continuous power during fluctuations. Genset solutions with automatic transfer switches ensure immediate backup power generation during outages. Redundant power feeds and load-sharing configurations enhance system reliability.
8	Surveillance Data Storage	The design and deployment of scalable storage solutions involve high-capacity Network Attached Storage (NAS) systems with RAID configurations to ensure data redundancy and availability. Data archiving and tiered storage strategies optimize storage management and retrieval times.
9	Software and Tools	Firms are expected to provide Network Management Systems (NMS), software tools, and resources necessary for robust network monitoring, system management, and data analysis to maintain operational efficiency.
10	Integration Expertise	Seamless integration requires expertise in industry-standard protocols such as ONVIF for interoperability between different surveillance components. API-based integration between NMS, surveillance software, and control room applications ensures unified control and easy data sharing.



**Lot No. 02 – Infrastructure, Fiber Optics on Lease Basis**

Sr. #	Item	Description
1	Comprehensive Network Design	This includes meticulous planning of network topology and routing to ensure seamless connectivity. Additionally, the design phase encompasses the creation of a comprehensive fiber optics network layout, incorporating precise splicing techniques and an architecture conducive to efficient data transmission.
2	Equipment Deployment	Deployment entails the installation premium fiber optic cables, connectors, and specialized splicing tools. Careful attention is paid to the placement of fiber cables, connectors, distribution panels, and termination points at crucial junctures including the Right of Way. These installations adhere to industry standards to ensure robust connections.
3	Testing and Last Mile Connectivity	Optical loss testing and Optical Time Domain Reflectometer (OTDR) measurements are performed to assess the signal's integrity and performance. Moreover, the endeavor extends fiber connectivity to last-mile of respective site including the Right of Way. This extension involves precise splicing and configuration for the establishment of dependable and high-speed access.
4	Managed Services with SLAs (per Mbps)	Continuous monitoring, NMS, proactive maintenance, and effective troubleshooting ensure consistent network performance. Moreover, the project provides the distinctive feature of scalable bandwidth allocation per Mbps. This scalability allows seamless adjustment to meet evolving user requirements.

**Note:**

- (i) The Applicants are required to submit their Pre-Qualification (PQ) proposal and propose their own solution based on the information presented in the preceding paragraphs, Lots detail, their experience, and international best practices.
- (ii) Applicants can apply on any or all lots mentioned above.

**5 INSTRUCTIONS TO APPLICANTS**

**5.1 Submission of Proposal**

Applications for Pre-Qualification (PQ) containing separate Pre-Qualification Proposals, one (01) original and one (01) copy should be submitted in separately sealed envelopes, to be delivered into the Tender Box, placed at reception of Punjab Information Technology Board, 13<sup>th</sup> Floor, Arfa Software Technology Park (ASTP), 346-B, Ferozepur Road, Lahore, Pakistan as per the schedule below:

Lot No.	Description	Pre-proposal Meeting Date, Time & Place	Proposal Submission Date & Time	Proposal Opening Date & Time
1	Surveillance System, NOC & Data Center on Turn-key Basis	11:00 AM 11 October, 2023 13th Floor, Arfa Software Technology Park (ASTP), 346-B, Ferozepur Road, Lahore.	12:00 PM 19 October, 2023	12:30 PM 19 October, 2023
2	Infrastructure, Fiber Optics on Lease Basis	11:00 AM 11 October, 2023 13th Floor, Arfa Software Technology Park (ASTP), 346-B, Ferozepur Road, Lahore.	12:00 PM 19 October, 2023	12:30 PM 19 October, 2023

- (i) In case the last date of proposal submission falls in / within the official holidays / weekends of the Purchaser, the last date for submission of the proposals shall be the next working day.
- (ii) The proposals are to be prepared in English language. The Applicants must provide complete information along with supporting documents. Any lapses to provide essential information may result in disqualification of the Applicant.
- (iii) All documents submitted by the Applicants should preferably be delivered in one Packet/parcel for ease of handling and to avoid loss of documents. Any misleading statement(s) or information by any Applicant will result into disqualification at any stage.
- (iv) The Applicants can seek any clarification regarding the project, Pre-Qualification (PQ) Documents or Evaluation Criteria from the following:

**PRIMARY CONTACT**

**Sajjad Ghani**  
**Chief Information Officer**  
Punjab Information Technology Board, Government of Punjab  
14<sup>th</sup> Floor Arfa Software Technology Park, 346-B, Ferozepur Road, Lahore.  
**Email:** [Sajjad@pitb.gov.pk](mailto:Sajjad@pitb.gov.pk)  
Office Phone: (+ 92) (42) (990000000)

**Ata ur Rahman**  
**Director (D&P)**  
Punjab Information Technology Board, Government of Punjab  
13<sup>th</sup> Floor Arfa Software Technology Park, 346-B, Ferozepur Road, Lahore.  
**Email:** [ata.rahman@pitb.gov.pk](mailto:ata.rahman@pitb.gov.pk)  
Office Phone: (+ 92) (42) (990000000)

**SECONDARY CONTACT**

**Muzaffar Abbas**

**Joint Director (IT Operations)**

Punjab Information Technology Board, Government of Punjab  
14<sup>th</sup> Floor Arfa Software Technology Park, 346-B, Ferozepur Road, Lahore.

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**Ali Raza**

**Joint Director (IT Infrastructure)**

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07<sup>th</sup> Floor Arfa Software Technology Park, 346-B, Ferozepur Road, Lahore.

**Email:** [ali@pitb.gov.pk](mailto:ali@pitb.gov.pk)

**Office Phone:** (+ 92) (42) (990000000)

- (v) Interested Applicants should note that during the period from the receipt of the proposal and till further notice from the Primary Contact, all queries should be communicated via the Primary Contact in writing or e-mail only. In the case of an urgent situation where the Primary Contact cannot be contacted, the interested Applicants may alternatively direct their enquiries through the Secondary Contact.
- (vi) Interested Applicants/ are also required to state in their proposals the name, title, fax number and e- mail address of their authorized representative through whom all communications shall be directed until the process has been completed or terminated.
- (vii) The Purchaser will not be responsible for any costs or expenses incurred by Applicants in connection with the preparation or delivery of proposals.

**6    QUALIFICATION CRITERIA**

**6.1    General**

Pre-Qualification will be based on all the criteria given in succeeding sections regarding the Applicant’s financial soundness, experience, personnel and technical solution as indicated by the Applicant’s responses in the forms given in this document.

**6.2    Lot-wise Evaluation Criteria**

**LOT No. 01**

**(Surveillance System, NOC & Data Center on Turn-key Basis)**

**6.2.1    Mandatory Requirements**

**6.2.1.1** The Applicant must comply with the following mandatory requirements and provide the required documentation in the PQ Proposal. Initially, the proposals will be evaluated on the following mandatory requirements to ascertain eligibility:

Sr. No.	Mandatory Requirement	Required Documentation
1	The Applicant must be registered under the laws of Pakistan for the last ten (10) years. In case of JV, the Lead Partner must be registered under the laws of Pakistan for the last ten (10) years.	(Certificate of Company/Firm Registration/Incorporation)
2	Valid Income Tax Registration with all relevant authorities	Proof of Registration
3	Valid General Sales Tax Registration with all relevant authorities	Proof of Registration
4	<ul style="list-style-type: none"><li>• The Applicant is not blacklisted by any provincial or federal government department, agency, organization or autonomous body anywhere in Pakistan.</li><li>• Undertaking of No Conflict of Interest</li><li>• Correctness of Information Certificate</li></ul>	Affidavit on non-judicial Stamp Paper of Rs. 100/- or Official Letter-head
5	The Applicant or in case of JV, any of JV firm has experience of successful delivery of at least one Surveillance Project with Network Connectivity and Control Room	Affidavit on non-judicial Stamp Paper of Rs. 100/- or Official Letter-head, along with the relevant project documents i.e., Copy of the Contract

**6.2.1.2** Only eligible Applicants shall be considered for next stage (point-based evaluation) of Pre-Qualification process.

6.2.2 Evaluation Categories and Points

(i) Category-wise distribution of points shall be as under:

Sr. No.	Category	Points
1.	Experience	70
2.	Personnel Capabilities	15
3.	Financial Strength	15
	<b>Total:</b>	<b>100</b>

(ii) **Note:** Technical qualification status shall be determined on the point scoring criteria. In order to qualify, the Applicant must obtain overall 70 points and at least 50% points in each category, as mentioned in the table above.

(iii) Detailed Pre-Qualification criteria are given below:

6.2.2.1 Experience

(i) Points will be allocated on the basis of the following criteria:

Sr. No.	Description	Maximum Points	Remarks
1	<b><u>General Work Experience</u></b> Implementation of Five (05) ICT projects (Systems, Solutions, Automation, Datacenter Infrastructure, Network Infrastructure etc.) in last Ten (10) years  Five (05) points for each project: <ul style="list-style-type: none"><li>• Minimum worth of Rs. 100 million for each project.</li><li>• No points will be allocated for projects having the worth less than Rs. 100 million</li><li>• No more than Five (05) ICT projects should be submitted.</li></ul>	25	Points will be allocated on the basis of valid documentary evidence that is  (Copy of the Contract/Work Order AND Completion Certificate)
2	<b><u>Similar Work Experience</u></b> Similar experience of Design, Implementation (supply, installation, testing, commissioning, and training), and Support for Integrated Command-and-Control Systems. Points will only be allocated to projects which include the following main components: <ul style="list-style-type: none"><li>(i) CCTV Video Surveillance - (03 Points)</li><li>(ii) Datacenter - (03 Points)</li><li>(iii) Electrical and Civil Works - (01 Points)</li><li>(iv) Network Operations Center (NOC) - (01 Points)</li><li>(v) Video Wall - (02 Points)</li></ul> Ten (10) points for each project: <ul style="list-style-type: none"><li>• Minimum worth of Rs. 250 million for each project</li><li>• No points will be allocated for projects having the worth less than Rs. 250 million</li><li>• No more than three (03) projects should be submitted.</li></ul>	30	
3	ISO9001/ISO27001/ISO20000-1 Standard Certification or Internationally Accredited Certificate	05	
4	Proposed Methodology on Implementation of Scope of Work	10	
<b>Sub-total:</b>		<b>70</b>	

6.2.2.2 Personnel Capabilities

- (i) The Applicant shall provide personnel with relevant experience to fill the key management and specialist positions mentioned below.
- (ii) The Applicant will provide Proof of Employment and CVs of key specialists for each relevant area/domain, as listed in table below, and points will be allocated on the basis of the following criteria:

Sr. No.	Domain Specialist With minimum five (05) years of experience	Points	Remarks
1	Project Management (Lead)	02	Proof of employment of the indicated personnel and their CVs to be attached (for Serial Numbers 1-8 only)
2	Infrastructure & Communications Specialist	01	
3	Data Centre Management Specialist	01	
4	Solution Integration Specialist	01	
5	Electrical Engineer	01	
6	Software Engineer	01	
7	Civil Engineer	01	
8	Training and Capacity Building Specialist	01	
9	Technical Support Staff for deployment of Cameras, Poles, and all related Equipment on site	06 <ul style="list-style-type: none"><li>01-10 = 4 points</li><li>11-20 = 5 points</li><li>More than 20 = 6 points</li></ul>	For Serial Number 09, List of Resources is required.
Sub-total:		15	

6.2.2.3 Financial Strength

- (i) Points will be allocated on the basis of the following criteria:

Sr. No.	Description	Maximum Points	Remarks
1	Current Assets as per the Latest Audited Balance Sheet, duly signed & stamped	05	No points if Audited Balance-Sheets is not provided. <ul style="list-style-type: none"><li>Assets ≥ Rs. 100 million but ≤ 200 million = 1</li><li>Assets &gt; Rs. 200 million but ≤ 300 million = 2</li><li>Assets &gt; Rs. 300 million but ≤ 400 million = 3</li><li>Assets &gt; Rs. 400 million but ≤ 500 million = 4</li><li>Assets &gt; Rs. 500 million = 5</li></ul>
2	Average Annual Turnover of Last Three (03) years as per the Audited Income Statements, duly signed & stamped	10	No points if Audited Income Statements are not provided. <ul style="list-style-type: none"><li>Average Annual Turnover ≥ Rs. 2000 million but ≤ 3000 million = 5</li><li>Average Annual Turnover &gt; Rs. 3000 million = 10</li><li>No points for Average Annual Turnover less than Rs. 2000 million</li></ul>
Sub-total:		15	

**LOT No. 02**

**(Infrastructure, Fiber Optics on Lease Basis)**

**6.2.3 Mandatory Basic Requirements**

**6.2.3.1** The Applicant must comply with the following mandatory requirements and provide the required documentation in the PQ Proposal. Initially, the proposals will be evaluated on the following mandatory requirements to ascertain eligibility:

Sr. No.	Mandatory Requirement	Required Documentation
1	The Applicant must be registered under the laws of Pakistan for the last ten (10) years. Joint Venture (JV) is not allowed on Lot No. 02.	(Certificate of Company/Firm Registration/Incorporation)
2	Valid Income Tax Registration with all relevant authorities	Proof of Registration
3	Valid General Sales Tax Registration with all relevant authorities	Proof of Registration
4	Must have valid relevant licensing from PTA	Relevant License from PTA
5	<p>The Applicant must have the following:</p> <ul style="list-style-type: none"><li>(i) Relevant business experience of at least Ten (10) years i.e.,<ul style="list-style-type: none"><li>a. Installation of network equipment (Core &amp; Distribution).</li><li>b. Should have own Optical Fiber Network covering more than 2,000 km with managed service including Operations &amp; Management (O&amp;M).</li></ul></li><li>(ii) Capability of providing;<ul style="list-style-type: none"><li>a. End-to-end solution of connectivity and configuration for Network Infrastructure (Router and Switch).</li><li>b. 24x7 on-site team along with ENOC for managed services of the entire solution.</li></ul></li><li>(iii) Capability of providing end-to-end MPLS connectivity for secure private network availability.</li><li>(iv) An enterprise NOC for complaint registration and escalations;<ul style="list-style-type: none"><li>a. Efficient 24/7 Complaint Management System / NOC.</li><li>b. Ticketing system for complaints/queries.</li></ul></li></ul>	Affidavit on non-judicial Stamp Paper of Rs. 100/- or Official Letter-head
6	<ul style="list-style-type: none"><li>• The Applicant is not blacklisted by any provincial or federal government department, agency, organization or autonomous body anywhere in Pakistan.</li><li>• Undertaking of No Conflict of Interest</li><li>• Correctness of Information Certificate</li></ul>	Affidavit on non-judicial Stamp Paper of Rs. 100/- or Official Letter-head

**6.2.3.2** Only eligible Applicants shall be considered for next stage (point-based evaluation) of Pre-Qualification process.

**6.2.4 Evaluation Categories and Points**

(i) Category-wise distribution of points shall be as under:

Sr. No.	Category	Points
1.	Experience	70
2.	Personnel Capabilities	15
3.	Financial Strength	15
Total:		100

(i) **Note:** Technical qualification status shall be determined on the point scoring criteria. In order to qualify, the Applicant must obtain overall 70 points and at least 50% points in each category, as mentioned in the table above.

(ii) Detailed Pre-Qualification criteria are given below:

**6.2.4.1 Experience**

(i) Points will be allocated on the basis of the following criteria:

Sr. No.	Description	Maximum Points	Remarks
1	<b><u>General Work Experience</u></b> Implementation of Five (05) connectivity related projects in last Five (05) years.  Five (05) points for each project: <ul style="list-style-type: none"><li>• Minimum worth of Rs. 10 million for each project</li><li>• No points will be allocated for projects having the worth less than Rs. 10 million</li><li>• No more than Five (05) projects should be submitted.</li></ul>	25	Points will be allocated on the basis of valid documentary evidence that is  (Copy of the Contract/Work Order AND Completion Certificate)
2	<b><u>Similar Work Experience</u></b>  Satisfactory Certificate from Five (05) Clients for provisioning of at least 100 Mbps Bandwidth for a single project  Six (06) points for each project: <ul style="list-style-type: none"><li>• No more than Five (05) projects should be submitted.</li></ul>	30	
3	ISO9001/ISO27001/ISO20000-1 Standard Certification or Internationally Accredited Certificate	05	
4	Proposed Methodology on Implementation of Scope of Work	10	
Sub-total:		70	

**6.2.4.2 Personnel Capabilities**

- (i) The Applicant shall provide personnel with relevant experience to fill the key management and specialist positions mentioned below.
- (ii) The Applicant will provide Proof of Employment and CVs of key specialists for each relevant area/domain, as listed in table below, and points will be allocated on the basis of the following criteria:



Sr. No.	Domain Specialist	Points	Remarks
1	Project Management (Lead) With ten (10) years of experience	02	Proof of employment of the indicated personnel and their CVs to be attached <b>(For Serial Number 1-5 Only)</b>
2	Infrastructure & Communications Specialist	02	
3	Data Centre/Infrastructure Specialist	02	
4	Solution Architect (solution, network, hardware)	02	
5	Hardware/Systems Specialist	02	
6	Technical Support Staff Fiber & Active Network Infrastructure	05  <ul style="list-style-type: none"> <li>• 01-10 = 1 points</li> <li>• 11-20 = 2 points</li> <li>• 21-30 = 3 points</li> <li>• 31-40 = 4 points</li> <li>More than 40 = 5 points</li> </ul>	<b>For Serial Number 06</b> , List of Resources is required.
<b>Sub total:</b>		<b>15</b>	

#### 6.2.4.3 Financial Strength

(i) Points will be allocated on the basis of the following criteria:

Sr. No.	Description	Maximum Points	Remarks
1	Current Assets as per the Latest Audited Balance Sheet, duly signed & stamped	05	No points if Audited Balance Sheet is not provided. <ul style="list-style-type: none"> <li>• Assets ≥ Rs. 100 million but ≤ 200 million = 1</li> <li>• Assets &gt; Rs. 200 million but ≤ 300 million = 2</li> <li>• Assets &gt; Rs. 300 million but ≤ 400 million = 3</li> <li>• Assets &gt; Rs. 400 million but ≤ 500 million = 4</li> <li>• Assets &gt; Rs. 500 million = 5</li> </ul>
2	Average Annual Turnover of Last Three (03) years as per the Audited Income Statements, duly signed & stamped	10	No points if Audited Income Statements are not provided. <ul style="list-style-type: none"> <li>• Average annual turnover ≥ 500 million but ≤ 1000 million = 5</li> <li>• Average annual turnover &gt; 1000 million = 10</li> <li>• No points for turnover less than Rs.500 million</li> </ul>
<b>Sub-total:</b>		<b>15</b>	

## **7    OTHER FACTORS**

- (i)** Only Applicants that have been prequalified under this procedure shall be invited to submit proposal at the RFP stage.
- (ii)** An Applicant can apply for pre-qualification individually or through a joint venture (JV). For details refer to **Annexure C**.
- (iii)** If an Applicant applies for pre-qualification through JV (Joint Venture), the composition of JV members shall remain same for the RFP stage. If the composition of JV members is changed after the pre-qualification stage by any Applicant, the proposal of that Applicant will be rejected.
- (iv)** The Applicant can apply on any or all lots mentioned in Section 4.
- (v)** Joint Venture (JV) is not allowed on Lot No. 02.
- (vi)** The Purchaser may reject all proposals at any time prior to the acceptance of a proposal. The Purchaser shall upon request, communicate to any Applicant, the grounds for its rejection of all proposals, but shall not be required to justify those grounds. The Purchaser shall incur no liability, solely, by virtue of its invoking sub-rule (1) of Rule-35 of Punjab Procurement Rules, 2014 towards the Applicants. However, Applicants shall be promptly informed about the rejection of the proposals, if any (As per Rule 35 of Punjab Procurement Rules, 2014).
- (vii)** The Applicant shall bear all costs / expenses associated with the preparation and submission of the Proposal(s) and the Employer shall in no case be responsible / liable for those costs / expenses.

Letter of Application

[Letterhead paper of the Applicant including full postal address, telephone no., fax no., telex no. and e-mail address]

Date: .....

To: .....

.....

[Name and address of the Employer]

Sir,

1. Being duly authorized to represent and act on behalf of \_\_\_\_\_(hereinafter “the Applicant”), and having reviewed and fully understood all the PQ information provided, the undersigned hereby applies to be pre-qualified for the provision of TECHNOLOGY SOLUTION FOR PUNJAB POLICE INTEGRATED COMMAND, CONTROL & COMMUNICATION (PPIC3) CENTER FAISALABAD SPONSORED BY PUNJAB SAFE CITY AUTHORITY, PUNJAB POLICE DEPARTMENT:
2. Attached to this letter are copies of original documents defining:
- (a) The Applicant's legal status;
  - (b) The principal place of business;
  - (c) The place of incorporation (for Applicants who are corporations); or  
The place of registration and the nationality of the owners (for Applicants who are partnerships or individually owned Applicants);
3. The Client and its authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted in connection with this proposal, and to seek clarification from our bankers and clients regarding any financial and technical aspects. This Letter of Application will also serve as authorization to any individual or authorized representative of any institution referred to in the supporting information, to provide such information deemed necessary and requested by the Employer or its authorized representative to verify statements and information provided in this proposal, or with regard to the resources, experience, and competence of the Applicant.
4. The Employer and its authorized representatives may contact the following persons for further information, if needed.

General and Managerial Inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2
Personnel Inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2
Technical Inquiries	
Contact 1	Telephone 1
Contact 2	Telephone 2
Financial Inquiries	
Contact 1	Telephone 1

Contact 2	Telephone 2
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- 5. This proposal is made with the full understanding that:
  - (a) Proposals by pre-qualified Applicants will be subject to verification of all information submitted for pre-qualification.
- 6. The undersigned declare that the statements made and the information provided in the proposal are complete, true, and correct in every detail.

Stamp & Signature of the Applicant

General Information

All individual Applicants applying for pre-qualification individually or through JV are requested to complete the information in this form. Nationality information is also to be provided for foreign owners.

1	Name of Applicant	
2	Head Office Address	
3	Telephone	Contact Person: Name: Title:
4	Fax	Telex
5	Place of incorporation/Registration	Year of incorporation/registration

General Experience

Name of Applicant
-------------------

All individual Applicants are requested to complete the information in this form.

Starting Month Year	Ending Month Year	Year	Contract Name, Name & Address of Employer Brief Description of Works Executed	Role of Applicant

**Similar Experience**

Name of Applicant
-------------------

On a separate page, using the format of Application Form A-4, each Applicant is required to list all contracts of a similar nature and complexity to the contract for which the Applicant wishes to qualify, undertaken during the last ten (10) or five (05) years, as required in qualification criteria of respective Lots. The information is to be summarized, using Application Form A-4, for each contract completed or under execution by the Applicant.

Contracts of Similar Nature and Complexity

Name of Applicant
-------------------

Use a separate sheet for each contract/project.

1	Name of Contract
	Country
2	Name of Employer
3	Employer Address
4	Nature of works and special features relevant to the contract for which the Applicant wishes to prequalify ----- -----
5	Contract Role (Tick One) (a) Sole Contractor (b) Sub- Contractor
6	Value of the total contract (in specified currencies) at completion, or at date of award for current contract Currency..... Currency..... Currency.....
7	Value in Pak/Rs.....
8	Date of Award.....
9	Date of Completion.....
10	Contract Duration (Years and Months) as per signed contract _____Years_____Months



Financial Strength

Name of Applicant
-------------------

Applicants should provide financial information to demonstrate that they meet the specified requirements. A copy of the audited reports/balance-sheets should be attached.

Bank	Name of bank		
	Address of bank		
	Telephone	Contact name and title	
	Fax	Telex	

All individual Applicants are requested to provide information related to annual turnover.

Annual Turnover		
Year	Turnover (in Pak Rupees)	Turnover in Millions.
1.		
2.		
3.		

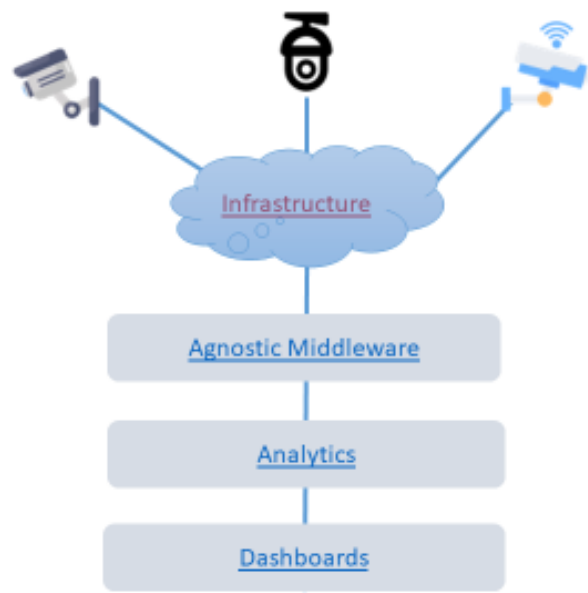
Summarize actual assets and liabilities in Pak Rupees for the previous three (03) years, based upon known commitments, projected assets and liabilities in Pak Rupees.

Financial information in Pak Rs.	Detail of Last three year		
	1	2	3
1. Total assets			
2. Current assets			
3. Total liabilities			
4. Current liabilities			
5. Profits before taxes			
6. Profits after taxes			

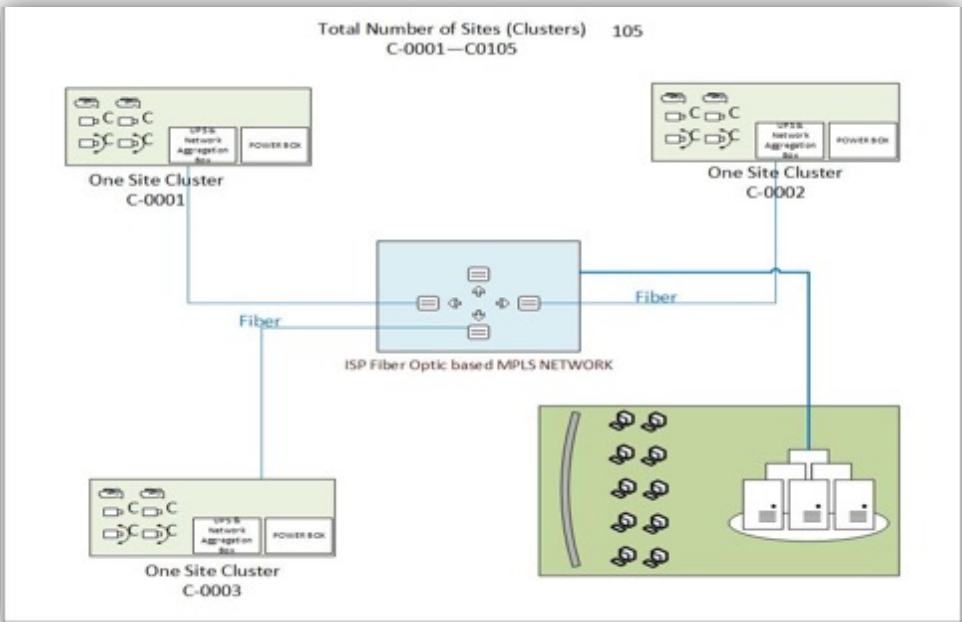
Applicants owned by individuals, and partnerships, may submit their audit reports / balance sheets certified by a registered accountant.

TECHNOLOGY IMPLEMENTATION & CONNECTIVITY OF PPIC3 CENTER FAISALABAD

- **PPIC3 Faisalabad**, Technology infrastructure entails the components below:
- Infrastructure
  - Agnostic Middleware
  - Analytics
  - Dashboards

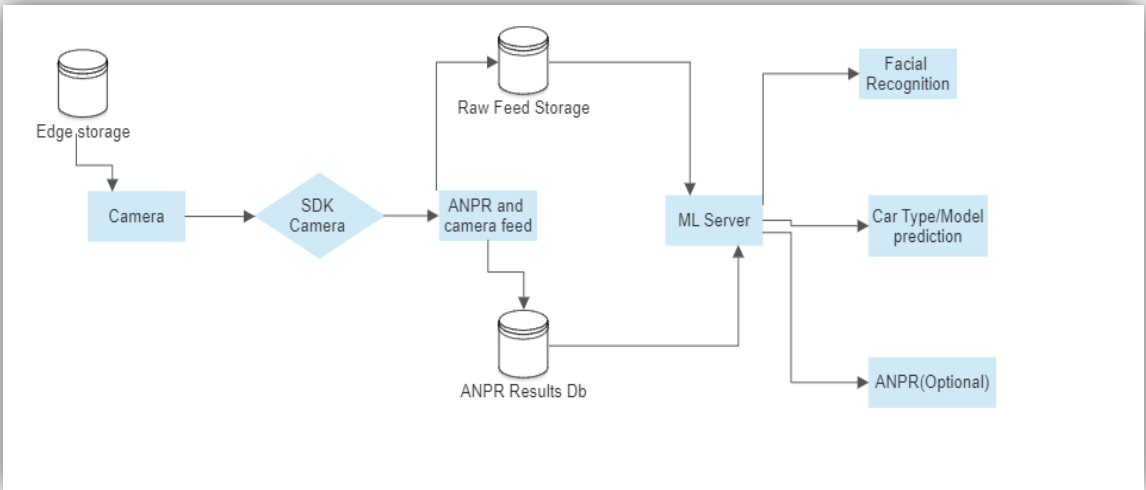


**Infrastructure:**  
Cloud Infrastructure of PPIC3 Faisalabad is as under:



**Agnostic Middleware:**

PPIC3 Faisalabad shall allow multiple network blocks to share information on a single platform. Agnostic Middleware diagram is as under:



## Site Locations (FAISALABAD)

Location sites map

<https://www.google.com/maps/d/edit?mid=1Fg7kvkRQkiWH7TUjUSPXlg2okIsobCY&ll=31.240447805798482%2C73.16977490000001&z=9>

WKT	Sr. No	Point Name	Lat	Long
POINT (73.0660999 31.517563)	1	Kamal Pur Toll Plaza	31.517563	73.0660999
POINT (73.1182239 31.570613)	2	Deputy Wala Toll Plaza	31.570613	73.1182239
POINT (73.2183635 31.665915)	3	Sahianwala Toll Plaza	31.665915	73.2183635
POINT (73.2356792 31.63311)	4	Sahianwala Bypass	31.63311	73.2356792
POINT (73.053048 31.335155)	5	Roshanwala By-Pass	31.335155	73.053048
POINT (73.164759 31.327083)	6	Khanuana By-Pass	31.327083	73.164759
POINT (72.92598 31.366386)	7	Sadhar By-Pass	31.366386	72.92598
POINT (72.963537 31.458439)	8	Amin Pur Bangla Toll Plaza	31.458439	72.963537
POINT (72.989311 31.450192)	9	Aminpur Bangla By-Pass	31.450192	72.989311
POINT (73.272792 31.497584)	10	Khurianwala Entry	31.497584	73.272792
POINT (73.202679 31.386942)	11	Makuana By-Pass	31.386942	73.202679
POINT (73.087103 31.447679)	12	Alhalal Travels	31.447679	73.087103
POINT (73.087627 31.427123)	13	Jinnah Bagh Gate 2	31.427123	73.087627
POINT (73.083257 31.426744)	14	Jinnah Bagh Main Gate	31.426744	73.083257
POINT (73.04169254 31.419106)	15	Bakar Mandi Chowk	31.419106	73.04169254
POINT (73.04838501 31.41786)	16	ABC Pul	31.41786	73.04838501
POINT (73.04045967 31.406516)	17	Ghosia Chowk	31.406516	73.04045967
POINT (73.061678 31.419939)	18	Yamaha Chowk	31.419939	73.061678
POINT (73.0737467 31.427107)	19	Cap Nisar Akbar Chowk	31.427107	73.0737467
POINT (73.05661271 31.424137)	20	279 Chowk	31.424137	73.05661271
POINT (73.050444 31.436814)	21	Saddar Bazar/Style Shoes Chowk	31.436814	73.050444
POINT (73.045488 31.440589)	22	Goll Masjid GM Abad	31.440589	73.045488
POINT (73.075636 31.455634)	23	Punj Puli Chowk	31.455634	73.075636
POINT (73.06245 31.443551)	24	Faiz Abad Puli Chowk	31.443551	73.06245
POINT (73.057329 31.443119)	25	Subhan Allah Chowk	31.443119	73.057329
POINT (73.032984 31.436496)	26	Kashmir Chowk	31.436496	73.032984
POINT (73.023941 31.439225)	27	Marzri Pura Near Haji Camp	31.439225	73.023941
POINT (73.015454 31.441845)	28	Jawad Club Chowk	31.441845	73.015454
POINT (73.052866 31.43914)	29	Adam Chowk	31.43914	73.052866
POINT (73.042878 31.446725)	30	Qadar Abad Chowk	31.446725	73.042878
POINT (73.03799 31.441977)	31	Nashasta Chowk	31.441977	73.03799
POINT (73.0389567 31.434657)	32	Chak No 279 Mor	31.434657	73.0389567
POINT (73.035249 31.430882)	33	Freed Chowk	31.430882	73.035249
POINT (73.104641 31.411885)	34	Gourmet Bakery Chen One Road	31.411885	73.104641
POINT (73.091215 31.415986)	35	Faisal Movers	31.415986	73.091215
POINT (73.094595 31.416872)	36	Kohistan Travels	31.416872	73.094595
POINT (73.092767 31.41504)	37	GTS Back Side	31.41504	73.092767
POINT (73.109585 31.406638)	38	D-Ground Chowk	31.406638	73.109585
POINT (73.116386 31.410755)	39	Al Fatih Chowk	31.410755	73.116386
POINT (73.116343 31.427404)	40	TaTha Pul Chowk	31.427404	73.116343
POINT (73.124761 31.428364)	41	Sahib Khan Chowk	31.428364	73.124761
POINT (73.118835 31.422872)	42	Faizan-e-Madina Chowk	31.422872	73.118835
POINT (73.1269086 31.041818)	43	Jalvi Market	31.041818	73.1269086
POINT (73.1208922 31.407277)	44	Tezab Mill Chowk	31.407277	73.1208922
POINT (73.11731 31.412417)	45	Koh Noor Holywood Chowk	31.412417	73.11731
POINT (73.092152 31.435131)	46	Jamia Chishtia Chowk	31.435131	73.092152
POINT (73.102015 31.461515)	47	Green Town Chowk	31.461515	73.102015
POINT (73.105012 31.439715)	48	Akbar Chowk	31.439715	73.105012
POINT (73.08972 31.445794)	49	Sundas Foundation/ Sahil Hospital Chowk	31.445794	73.08972
POINT (73.107103 31.42699)	50	Chona Bhatian Jhumrah Road	31.42699	73.107103
POINT (73.122725 31.454289)	51	Jhumra Road Nishatabad Pul	31.454289	73.122725
POINT (73.102568 31.422145)	52	Jhumra Road Abdullah Pul (Zero Point)	31.422145	73.102568
POINT (73.0608572 31.535316)	53	ByPass Sargodah Road	31.535316	73.0608572
POINT (73.139993 31.485168)	54	Gatti Dryport	31.485168	73.139993
POINT (73.109491 31.508848)	55	Chak 117 JB Dhnola Chowk	31.508848	73.109491
POINT (73.1110382 31.398186)	56	Abbas Chowk	31.398186	73.1110382
POINT (73.082922 31.377313)	57	Waris Pura Chowk	31.377313	73.082922
POINT (73.084983 31.381534)	58	Bota Chowk	31.381534	73.084983

POINT (73.082919 31.377309)	59	D-Type Goll	31.377309	73.082919
POINT (73.074692 31.41314)	60	Grain Market	31.41314	73.074692
POINT (73.071089 31.412757)	61	Grain Market Entrance	31.412757	73.071089
POINT (73.0821035 31.409091)	62	Tata Bazar Main Road	31.409091	73.0821035
POINT (73.086209 31.413037)	63	Sitara Mill Tata Bazar	31.413037	73.086209
POINT (73.0768836 31.395446)	64	Novality Pul Chowk	31.395446	73.0768836
POINT (73.068784 31.413346)	65	Sbina Cinema Chowk	31.413346	73.068784
POINT (73.062879 31.39108)	66	College Road Samanabad	31.39108	73.062879
POINT (73.067678 31.387162)	67	Madni Chowk	31.387162	73.067678
POINT (73.034419 31.376034)	68	Sitara Colony	31.376034	73.034419
POINT (73.069091 31.366342)	69	Pull Abdullah	31.366342	73.069091
POINT (73.103348 31.329329)	70	Chak No 236 RB Chowk	31.329329	73.103348
POINT (73.1166691 31.393877)	71	Tool Tex Chowk	31.393877	73.1166691
POINT (73.125898 31.383539)	72	Machli Form Satiana Road	31.383539	73.125898
POINT (73.142031 31.402513)	73	Akhri Stop Dhudiwala	31.402513	73.142031
POINT (73.146279 31.354118)	74	Defence City	31.354118	73.146279
POINT (73.060474 31.348002)	75	Forsesson Colony Samundri Road	31.348002	73.060474
POINT (72.974775 31.344473)	76	Dinga Phatik	31.344473	72.974775
POINT (72.965941 31.37713)	77	Satwan Meal Stop Jhang Road	31.37713	72.965941
POINT (73.2570389 31.473313)	78	UET Chowk Faisalabad	31.473313	73.2570389
POINT (73.2852295 31.48678)	79	Arshad Corporations Pvt Ltd	31.48678	73.2852295
POINT (73.3099958 31.464829)	80	MSC Textiles Chowk	31.464829	73.3099958
POINT (73.3271775 31.449636)	81	Chak No 103 RB Phalahi	31.449636	73.3271775
POINT (73.3679718 31.41636)	82	Chak No 101 RB Ali Pur Bangla	31.41636	73.3679718
POINT (73.2489228 31.576399)	83	CHAK 155 RB Chowk	31.576399	73.2489228
POINT (73.2426199 31.597364)	84	Chak No 293 RB Chowk	31.597364	73.2426199
POINT (73.2202328 31.476919)	85	Gate Wala Tool Plaza	31.476919	73.2202328
POINT (73.35585 31.51254)	86	Ghaset Pura Sheikhpura Lahore Road	31.51254	73.35585
POINT (73.425513 31.55422)	87	Ada 60 Rb Sheikhpura Lahore Road	31.55422	73.425513
POINT (73.40228 31.540304)	88	Ada 61 Rb Sheikhpura Lahore Road	31.540304	73.40228
POINT (73.330392 31.567085)	89	Chak 149 RB Mor Chak Jhumra Road	31.567085	73.330392
POINT (73.419115 31.575224)	90	Chak 59 RB Chak Jhumra Road	31.575224	73.419115
POINT (73.267022 31.517779)	91	Sadaqat Limited	31.517779	73.267022
POINT (73.093329 31.427866)	92	Larri Ada	31.427866	73.093329
POINT (73.090691 31.42205)	93	Regency Palaza	31.42205	73.090691
POINT (73.094387 31.419277)	94	DHQ Hospital Main Gate	31.419277	73.094387
POINT (73.092425 31.42074)	95	Liver Center DHQ	31.42074	73.092425
POINT (73.089081 31.418337)	96	State Bank of Pakistan	31.418337	73.089081
POINT (73.087306 31.430223)	97	Commisioner Officer/Office of the Pakistan Navy	31.430223	73.087306
POINT (73.093558 31.421778)	98	Army Recruitment Center	31.421778	73.093558
POINT (73.094027 31.41776)	99	Judges Colony	31.41776	73.094027
POINT (73.081523 31.424069)	100	District Bar	31.424069	73.081523
POINT (73.07912 31.425863)	101	RPO Office	31.425863	73.07912
POINT (73.08166492 31.423935)	102	CPO Office	31.423935	73.08166492
POINT (73.079874 31.422508)	103	District Account Office	31.422508	73.079874
POINT (73.077872 31.423976)	104	State Life Building Liaqat Road	31.423976	73.077872
POINT (73.041434 31.439414)	105	GM Abad Police Station Chowk	31.439414	73.041434
POINT (73.043933 31.441806)	106	General Hospital GM abad Chowk	31.441806	73.043933
POINT (73.0959775 31.418042)	107	Railway Station Main Gate	31.418042	73.0959775
POINT (73.114736 31.418774)	108	Hockey Stadium Entry	31.418774	73.114736
POINT (73.116225 31.416292)	109	Hockey Stadium Exit	31.416292	73.116225
POINT (73.1487974 31.460935)	110	National Textile University	31.460935	73.1487974
POINT (73.22173962 31.658581)	111	FIEDMC Entrance	31.658581	73.22173962
POINT (73.227619 31.647815)	112	FIEDMC Chowk	31.647815	73.227619
POINT (73.189682 31.390802)	113	Police Lines PC Battalion 4	31.390802	73.189682
POINT (73.187412 31.391866)	114	Central Jail Jaranwala Road	31.391866	73.187412
POINT (72.9764381 31.380669)	115	Air force Office Jhang Road	31.380669	72.9764381
POINT (73.086075 31.420621)	116	Hilal Ahmar Chowk	31.420621	73.086075
POINT (73.076681 31.416339)	117	Regal Cinema/Lasori Shah Chowk	31.416339	73.076681



POINT (73.077629 31.417278)	118	Jhang Bazar Goll	31.417278	73.077629
POINT (73.079252 31.416663)	119	Montgomery Bazar Goll	31.416663	73.079252
POINT (73.080778 31.417443)	120	Karkhana Bazar Goll	31.417443	73.080778
POINT (73.081478 31.418813)	121	Rail Bazar Goll	31.418813	73.081478
POINT (73.081861 31.4166)	122	Karkhana Bazar Exit	31.4166	73.081861
POINT (73.0793521 31.414774)	123	Mintgumry Bazar Exit	31.414774	73.0793521
POINT (73.084388 31.419064)	124	Gumti Chowk	31.419064	73.084388
POINT (73.087905 31.416371)	125	Standard Chartered Chowk	31.416371	73.087905
POINT (73.080297 31.415008)	126	Purana Fire Brigade Chowk	31.415008	73.080297
POINT (73.077461 31.419989)	127	Imam Bargah Haidria Amin Pur Bazar Goll	31.419989	73.077461
POINT (73.0785352 31.419162)	128	Amin Pur Bazar	31.419162	73.0785352
POINT (73.0790341 31.419428)	129	Jaffri Broast Chinot Bazar	31.419428	73.0790341
POINT (73.0795799 31.419197)	130	Rafiq Watch Katchery Bazar	31.419197	73.0795799
POINT (73.0749296 31.418504)	131	Bhawana Bazar Street No 5	31.418504	73.0749296
POINT (73.076759 31.418568)	132	Bhawana Bazar Goll	31.418568	73.076759
POINT (73.080578 31.420128)	133	Katchery Bazar Goll	31.420128	73.080578
POINT (73.078967 31.420707)	134	Chiniot Bazar Goll	31.420707	73.078967
POINT (73.0791408 31.418724)	135	Clock Tower	31.418724	73.0791408
POINT (73.073849 31.418532)	136	Narwala Chowk	31.418532	73.073849
POINT (73.0785902 31.418654)	137	Bhawana Bazar To Clock Tower	31.418654	73.0785902
POINT (73.0726296 31.41567)	138	Imam Bargah Road	31.41567	73.0726296
POINT (73.0737345 31.416714)	139	Diglus Pura Chowk	31.416714	73.0737345
POINT (73.0748208 31.417766)	140	Regal Road	31.417766	73.0748208
POINT (73.0785717 31.418167)	141	Pehlwan Hotel Jhang Bazar	31.418167	73.0785717
POINT (73.0702277 31.417358)	142	GCUF entry gate pedestrian	31.417358	73.0702277
POINT (73.06914 31.41409)	143	GCUF Entry Gate	31.41409	73.06914
POINT (73.069102 31.418252)	144	BC Tower Chowk	31.418252	73.069102
POINT (73.0669034 31.415972)	145	Taqwa Masjid Chowk	31.415972	73.0669034
POINT (73.06404727 31.42215)	146	Ideal Bakery Chowk	31.42215	73.06404727
POINT (73.0721944 31.416953)	147	Dhobi Ghat Ground Entrance	31.416953	73.0721944
POINT (73.0734883 31.418193)	148	Dhobi Ghat Gate 2	31.418193	73.0734883
POINT (73.05824395 31.430755)	149	Bara Qabaristan Chowk	31.430755	73.05824395
POINT (73.046816 31.451066)	150	Dhera Sain Qurbstan Chowk	31.451066	73.046816
POINT (73.05016 31.441179)	151	Chandni Chowk	31.441179	73.05016
POINT (73.04634 31.443773)	152	Liquat Chowk	31.443773	73.04634
POINT (73.0519656 31.446974)	153	Koh Wala Chowk	31.446974	73.0519656
POINT (73.050353 31.430863)	154	Madan pura Chowk	31.430863	73.050353
POINT (73.046062 31.432222)	155	Chur Majra Chowk	31.432222	73.046062
POINT (73.09118 31.416859)	156	GTS Chowk	31.416859	73.09118
POINT (73.0950015 31.410035)	157	Jhal Chok	31.410035	73.0950015
POINT (73.107769 31.404781)	158	Harianwala Chowk	31.404781	73.107769
POINT (73.08875 31.406412)	159	Samundri Road Entrance	31.406412	73.08875
POINT (73.0984882 31.406418)	160	Imam Bargah Haidar E Qarar Ghaziabad	31.406418	73.0984882
POINT (73.097912 31.405189)	161	Rana Park	31.405189	73.097912
POINT (73.0967424 31.39869)	162	Ground Quraishian	31.39869	73.0967424
POINT (73.0960023 31.397754)	163	Qadria Chowk	31.397754	73.0960023
POINT (73.098952 31.396277)	164	Tampu Chowk	31.396277	73.098952
POINT (73.097767 31.394589)	165	Pahari Ground Chowk	31.394589	73.097767
POINT (73.0824 31.383523)	166	Imam Bargah Qasr-e-Batool Chowk	31.383523	73.0824
POINT (73.07453 31.414041)	167	PS Jhang Bazar Chowk	31.414041	73.07453
POINT (73.070401 31.413581)	168	Khawaja Travel Chowk	31.413581	73.070401
POINT (73.074136 31.408459)	169	Totian Wala Khoo Chowk	31.408459	73.074136
POINT (73.075451 31.428653)	170	Agriculture University Chowk	31.428653	73.075451
POINT (73.08891 31.423399)	171	Chenab Club Chowk	31.423399	73.08891
POINT (73.083264 31.422752)	172	Zilla Council Chowk	31.422752	73.083264
POINT (73.085444 31.45191)	173	PMC Chowk	31.45191	73.085444
POINT (73.090478 31.424894)	174	Yad gar e shuhada chowk	31.424894	73.090478
POINT (73.082099 31.431271)	175	Anti terrorist Court/ Sitara Tower Bilal Chowk	31.431271	73.082099
POINT (73.078761 31.433759)	176	Zafar Ali Chowk Jail Road	31.433759	73.078761

POINT (73.080023 31.429231)	177	Minerva Club Chowk	31.429231	73.080023
POINT (73.081658 31.421157)	178	Katchery Bazar Chowk	31.421157	73.081658
POINT (73.076319 31.42084)	179	Kotwali Chowk	31.42084	73.076319
POINT (73.078787 31.423288)	180	Chiniot Bazar Chowk	31.423288	73.078787
POINT (73.0715144 31.416351)	181	Markazi Imam Bargah Chowk	31.416351	73.0715144
POINT (73.067711 31.413416)	182	Chenab Chowk	31.413416	73.067711
POINT (73.066395 31.424512)	183	Gulberg Chowk	31.424512	73.066395
POINT (73.071165 31.424739)	184	Eidgah chowk	31.424739	73.071165
POINT (73.069003 31.422575)	185	Jinah Colony gate/ Chowk	31.422575	73.069003
POINT (73.07155294 31.42064)	186	Nishat Cinema Chowk	31.42064	73.07155294
POINT (73.095493 31.418319)	187	Station Chowk	31.418319	73.095493
POINT (73.0821 31.431278)	188	Total Pump Chowk Near PS People Colony	31.431278	73.0821
POINT (73.110713 31.415124)	189	Susan Chowk	31.415124	73.110713
POINT (73.113644 31.412866)	190	Khinoor Chowk	31.412866	73.113644
POINT (73.112401 31.406942)	191	15 Chowk	31.406942	73.112401
POINT (73.109714 31.409021)	192	Radio Pakistan Chowk	31.409021	73.109714
POINT (73.09667 31.447242)	193	Millat Chowk	31.447242	73.09667
POINT (73.098423 31.40794)	194	Saleemi Chowk	31.40794	73.098423
POINT (73.105389 31.402571)	195	Gate Satiana Rd Chowk	31.402571	73.105389
POINT (73.1054231 31.419152)	196	Abdullah Pur UnderPass	31.419152	73.1054231
POINT (73.1921173 31.466656)	197	Gatt-wala UnderPass	31.466656	73.1921173
POINT (73.1347837 31.441019)	198	Kashmir UnderPass	31.441019	73.1347837
POINT (73.0943316 31.410654)	199	Jhal Khanuana UnderPass	31.410654	73.0943316
POINT (73.083926 31.43268)	200	Iqbal Stadium Gate 1	31.43268	73.083926
POINT (73.08795 31.433876)	201	Iqbal Stadium Gate 2	31.433876	73.08795
POINT (73.082196 31.448743)	202	Allied Hospital Chowk	31.448743	73.082196
POINT (73.086716 31.421268)	203	Commissioner House	31.421268	73.086716
POINT (73.081812 31.427891)	204	DC House	31.427891	73.081812
POINT (73.080431 31.424872)	205	DC Office FSD	31.424872	73.080431
POINT (73.077807 31.430913)	206	District Jail Chowk	31.430913	73.077807
POINT (73.0802674 31.447014)	207	Akbar Abad Chowk	31.447014	73.0802674
POINT (73.081881 31.434262)	208	DMC School Main Gate	31.434262	73.081881
POINT (73.074578 31.427833)	209	Tariq Mujahid Poice Lines	31.427833	73.074578
POINT (73.078748 31.424791)	210	Police Vision Gate	31.424791	73.078748
POINT (73.076775 31.427619)	211	Police Line Gate No 2	31.427619	73.076775
POINT (73.038506 31.402817)	212	Shadab Mor/Fun Dunia	31.402817	73.038506
POINT (73.06096879 31.411088)	213	Dispensary Chowk	31.411088	73.06096879
POINT (73.0596833 31.410466)	214	Lakar Mandi Moor	31.410466	73.0596833
POINT (73.053353 31.408236)	215	Moter Market	31.408236	73.053353
POINT (73.051411 31.407408)	216	Ayuob Reserch Moor	31.407408	73.051411
POINT (73.0467718 31.405666)	217	Sheikh Colony Road/Bohar Chowk	31.405666	73.0467718
POINT (73.04313284 31.404447)	218	Gulfishan Mor	31.404447	73.04313284
POINT (73.02832 31.39916)	219	Bhatha Stop jhang Road	31.39916	73.02832
POINT (73.0189974 31.395819)	220	Children Hopital/ GCUF	31.395819	73.0189974
POINT (73.15255472 31.451974)	221	204 Chak Pul	31.451974	73.15255472
POINT (73.079447 31.469233)	222	Lasani Puli Chowk	31.469233	73.079447
POINT (73.174368 31.460043)	223	Faisal Gardens Canal Road	31.460043	73.174368
POINT (73.077044 31.477992)	224	Samana Pul Sargodah Road	31.477992	73.077044
POINT (73.073376 31.383905)	225	D-Type Pull Chowk	31.383905	73.073376
POINT (73.072353 31.379847)	226	Korian Wala Pull	31.379847	73.072353
POINT (73.03346 31.400955)	227	NIAB FSD	31.400955	73.03346
POINT (72.9870079 31.384375)	228	Airport Entrance	31.384375	72.9870079
POINT (72.9864876 31.368463)	229	Airport Road to Chanchal Wala	31.368463	72.9864876
POINT (72.997041 31.388009)	230	BISE FSD Entrance	31.388009	72.997041

**Joint Venture/ Consortium**

Following are minimum qualification requirements of JV:

1. In the case of a joint venture, consortium, or association, all members shall be jointly and severally liable for the execution of the Contract in accordance with the terms and conditions of the Contract. The joint venture, consortium, or association shall nominate a Lead Member, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture, consortium, or association during the Bidding process, and in case of award of contract, during the execution of contract.
2. Any agreement that forms a joint venture, consortium or association shall be required to be submitted as part of the PQ Proposal and shall be attested.
3. There must be at least one locally registered company (Partner) of good repute, with relevant experience and proven track record, in the joint venture.
4. One partner of the participating Joint Venture shall be designated the Lead Partner. If awarded the contract, the Lead Partner would enter into legal agreement with the Client on behalf of the Joint Venture and would receive instructions and incur liabilities.
5. The appointment of Lead Member in the joint venture, consortium, or association shall be confirmed by submission of a valid Power of Attorney to the Procuring Agency.
6. All partners shall be jointly and severally liable for the execution of the Contract in accordance with the agreed terms and conditions. In case of award of Contract, the Contract Agreement shall be signed by the Lead Partner. All the partners shall be jointly and severally liable for the execution of the project in accordance with government rules and regulations.
7. For qualification criteria, the Lead Partner or JV Partner credentials are valid for evaluation.