

PUNJAB SAFE CITIES AUTHORITY



PREQUALIFICATION DOCUMENTS

Engineering Procurement Construction (EPC) of Punjab Police Integrated Command Control & Communication (PPIC3) Centres under Supplier's Credit mode in Punjab for Major Cities, inter alia, Multan, Rawalpindi, Sargodha, Bahawalpur, Faisalabad, Gujranwala.

IFP 1 - PPIC3 (MRSBFG)

10th DECEMBER 2016



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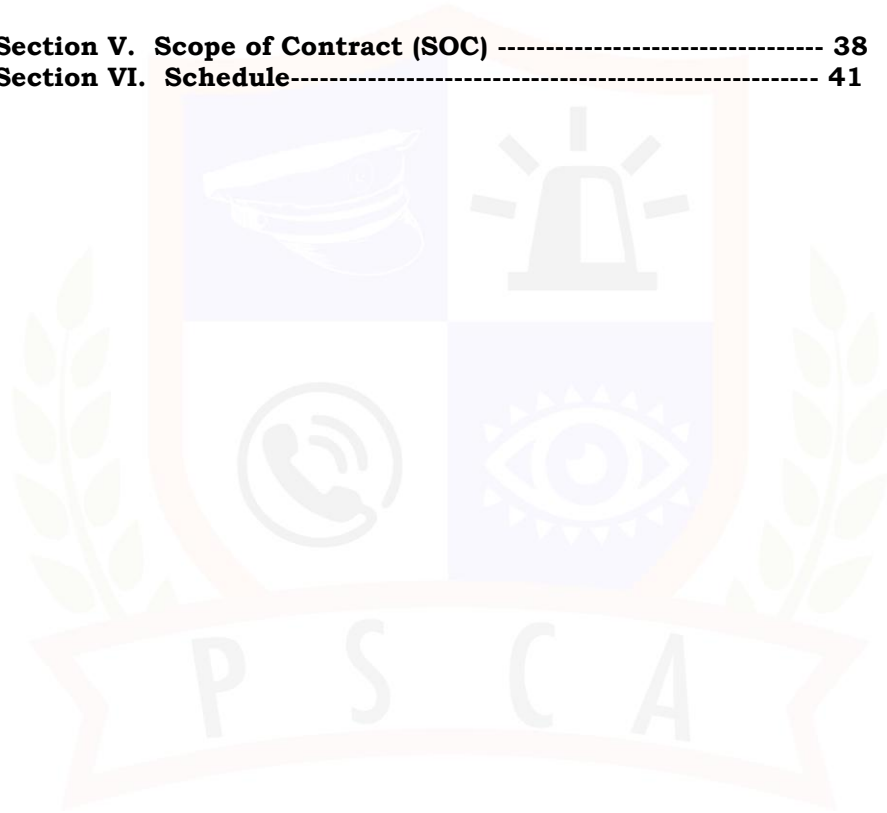


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1. Scope of Application

1.1 In connection with the Invitation for Prequalification - Punjab Safe Cities Authority (PSCA), Government of Punjab, Pakistan (the **Employer**), issues this Prequalification Documents on International Competitive Bidding (ICB) basis to applicants interested in bidding for the “Engineering Procurement & Construction (EPC) of Punjab Police Integrated Command Control & Communication (PPIC3) Centres under Supplier’s Credit mode in Punjab for Major Cities, inter alia, Multan, Rawalpindi, Sargodha, Bahawalpur, Faisalabad, Gujranwala (MRSBFG) (the **Projects**)”.

1.2 Definitions

1.2.1 **Applicant**; an applicant shall be a single entity or as a consortium, with a formal intent to enter into an agreement in relation to this Project.

1.2.2 **Coercive Practice**; coercive practice means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party.

1.2.3 **Consortium**; a consortium is an association of two or more companies or organizations with the objective of participating in a common activity or pooling their resources in relation to this Project/s.

1.2.4 **Collusive Practice**; a collusive practice means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party.

1.2.5 **Corrupt Practice**; a corrupt practice means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party.

1.2.6 **Domestic Applicant**; a domestic applicant means the applicant which is registered with Pakistan Engineering Council (PEC) and Security Exchange Commission Pakistan (SECP).

1.2.7 **Employer**; the employer means Punjab Safe Cities Authority.

1.2.8 **EPC**; EPC means Engineering, Procurement, and Construction form of contracting arrangement contractor is made responsible for all the activities from design, procurement, construction, to commissioning and handover of the project to the end-user or owner.

1.2.9 **Foreign Applicant**; a foreign applicant means an applicant who participates in the prequalification process and is not a Domestic Applicant.

1.2.10 **Fraudulent Practice**; a fraudulent practice means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation.

- 1.2.11 **Lead Partner**; a lead partner, in case of a consortium, means the partner who has the capacity in designing, supplying, construction, installation, software/solution integration, testing and commissioning of the Command and Control Centre with High-Tech Security/Surveillance System, as required under this Prequalification Documents and has 70% share in the consortium.
- 1.2.12 **Management Contractor**; a management contractor means any entity which performs necessary managerial functions in return for a fee, under a management contract in relation to construction projects or of similar nature.
- 1.2.13 **Mega Project**; a mega project, for the purpose of this document, means a construction infrastructure development project with the net worth greater or equivalent to US\$ Thirty Million (US\$ 30,000,000/).
- 1.2.14 **Parent Company**; a parent company means a company which wholly owns the Applicant which has applied under this Prequalification Documents as a single entity or a member of a consortium.
- 1.2.15 **Sub-Contractor**; a subcontractor means any entity that carries out work for a company as part of a larger project.

2 Sections of Prequalification Documents

- 2.1 The Prequalification Documents consist of Part 1 and 2 which include all the sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITA Clause 8.

PART 1 Prequalification Procedure

- Section I. Instructions to Applicants (ITA)
Section II. Qualification Criteria (QLC)
Section III. Application Forms (APF)
Section IV. Eligible Countries (ELC)

PART 2 Requirements

- Section V. Scope of Contract (SOC)

- 2.2 The “Invitation for Prequalification” issued by the Employer is not part of the Prequalification Documents.
- 2.3 The Employer or its advisors/consultants shall not incur any liability under any law, statute, rules or regulations as to the accuracy or completeness of the EOI-PQ document and its addenda.
- 2.4 The Applicant is expected to examine all instructions, forms and terms in the Prequalification Documents and to furnish all information or documentation required by the Prequalification Documents.

PART 1: PREQUALIFICATION PROCEDURE

Section I: Instructions to Applicants

3 Eligible Applicants

- 3.1 An Applicant should meet the requirements as described in clause 1.2 (Definitions). In the case of a Consortium:
- 3.1.1 All partners to the Consortium shall be jointly and severally liable; and
- 3.1.2 A Consortium must be represented by the Lead Partner.
- 3.1.3 Lead partner should meet the requirements as described in clause 1.2 (Definitions).
- 3.1.4 The Foreign Applicant is entitled to prequalification only in a Consortium arrangement with a domestic partner, in accordance with provisions of PEC Bye-laws titled “Construction and Operation of Engineering Works Bye-laws, 1987” issued under SRO 568(I)/87 dated July 08, 1987.
- 3.1.5 An Applicant shall have the nationality of an eligible country, in accordance with Section IV titled Eligible Countries.
- 3.1.6 An Applicant shall be deemed to have the nationality of a country if the Applicant is a national of that country; or is constituted, incorporated, or registered and operates in conformity with the provisions of the laws of that country.
- 3.2 The above requirement shall apply in case of the Applicant as a single entity as well as all Consortium partners.
- 3.3 Employer considers a conflict of interest to be a situation in which a party has interests that could improperly influence that party’s performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations. The Employer will take appropriate actions to manage such conflicts of interest which may include rejecting a proposal for award if it determines that a conflict of interest has flawed the integrity of any procurement process. At the time of bidding, applicants may be considered to be in a conflict of interest with one or more parties if they, including but not limited to participation in any respect in the preparation of the design or technical specifications of the works that are the subject of this prequalification.
- 3.4 An Applicant that is under a declaration of ineligibility/blacklisting, due to reasons including but not limited to corrupt practices and poor performance, by the Government of Pakistan/Government of Punjab /Governments of all foreign countries or their Governmental Bodies and International Organizations e.g. World Bank, Asian Development Bank, United Nations, IMF etc. including the Employer, at the date of submission of the application or thereafter, shall not be considered.

- 3.5 The Applicant shall provide such evidence of their continued eligibility satisfactory to the Employer.
- 3.6 A Domestic Applicant or Domestic Partner(s) of a Consortium shall possess a valid License issued by Pakistan Engineering Council (PEC) in Category C-A (No Limit).
- 3.7 An Applicant shall submit only one application in the same prequalification process, either individually or as a partner of a Consortium. An Applicant who submits or participates in more than one application, in the same prequalification process, will cause all the applications in which the Applicant has participated to be disqualified.
- 3.8 All pending litigation against the Applicant shall, in total, not be more than fifty (50) percent of the Applicant's total net worth.
- 3.9 The Applicant must comply with the Standard Anticorruption Policy of Government of the Punjab and must not be declared ineligible by any Court of Law or Governmental Body of the world due to corrupt/fraudulent/coercive/collusive practices as described in clause 1.2 (Definitions).
- 3.10 The Employer shall disqualify the Applicant(s) pursuant to Punjab Procurement Regulatory Authority (PPRA) Rule 20 for award of contract if it determines that the Applicant(s) recommended for award has(ve), directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract; and
- 3.11 The Employer shall sanction the Applicant(s) or its successor, including declaring ineligible, either indefinitely or for a stated period of time, to participate in bidding activities in Pakistan if it at any time determines that the firm has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for, or in executing the contract.
- 3.12 The Applicant must not conceal any information that might hinder the execution of the project. The Employer shall disqualify an Applicant pursuant to PPRA Rule 19 on grounds of false, fabricated or materially incorrect information.
- 3.13 The Applicant as single entity or in case of a Consortium the Lead Partner, shall furnish a Certificate of Compliance on Form CC-3.13 with the above mandatory eligibility requirements.

4 Experience

- 4.1 In addition to compliance of the above mandatory eligibility requirements for the prequalification, the Applicant will be evaluated as per the criteria detailed at Section II - Qualification Criteria.
- 4.2 The Applicant must have general experience as a single entity, or in case of a Consortium the Lead Partner or Management Contractor, in construction and infrastructure development of two (02) Mega Projects.

- 4.2.1 A Mega Project should meet the requirements as described in clause 1.2 (Definitions).
- 4.2.2 This experience shall be in preceding ten (10) years from date of submission of Prequalification Documents.
- 4.2.3 Out of the two (02) Mega Projects, one must be out of the country of origin of the Applicant or its Parent Company.
- 4.3 The Applicant must have specific experience as a single entity, or in case of a Consortium as the Lead Partner or as Management Contractor or as Subcontractor, on single responsibility EPC basis of minimum of two (02) projects.
- 4.3.1 Specific experience of the Applicant for the purposes of this Prequalification Documents is defined as experience of construction, design, implementation (supply, installation, testing, commissioning and training) and operations maintenance & support of Command & Control System with minimum of one thousand (1000) surveillance cameras.
- 4.3.2 The experience should relate to establishment of Integrated Command, Control and Communication Centre (IC3) with the scope of services including the Video Surveillance, Video Analytics, Integrated Data and Voice Platform with Computer Aided Dispatch (CAD) and Integrated Communications Platform (ICP) for telephone, radio LTE/LTE-Advanced Communications, Networking, Optical Fiber (OFC), Traffic Management System (Automatic Number Plate Recognition (ANPR), Police Traffic Signals Management System (TSMS), Police/Intelligent Traffic Management System (ITMS), E-Ticketing, Variable Messaging System (VMS) etc.), Geographic Information System (GIS), Response Management through Dispatch System GPS-Enabled vehicles, Automatic Vehicle Location System (AVLS), Data Centre and Disaster Recovery Centre, and for provision of redundant connectivity links for a minimum of two (02) projects.
- 4.4 Only those completed projects will be considered for this document where the Applicant has submitted letter of satisfactory performance from the employer to support their claim.
- 4.5 Ongoing projects shall not be considered as evidence of experience of the Applicant regardless of the value of the projects.
- 4.6 The Applicant must provide details regarding current contract commitments, inter alia, work in hand, duration, personnel engagement, contract price etc. on Form CC-4.6 to ascertain Applicant's unhindered availability for execution of the Project.
- 4.7 The Applicant must submit an overall technical solution to demonstrate its understanding of safe city projects including the following components in the form of a presentation not exceeding hundred (100) slides:

- 4.7.1 Video Surveillance
 - 4.7.2 Video Analytics
 - 4.7.3 GIS (Geographic Information System)
 - 4.7.4 CAD (Computer Aided Dispatch)
 - 4.7.5 AVLS (Automated Location Management System)
 - 4.7.6 LTE/LTE-A Communications
 - 4.7.7 ANPR (Automated Number Plate Recognition)
 - 4.7.8 Integrated Voice & Data Platform (e.g. with CAD, GIS, and softwares)
 - 4.7.9 ITMS (Police/Intelligent Traffic Management System)
 - 4.7.10 Networking & OFC (Optical Fiber Cable) Design and Execution
 - 4.7.11 E-Ticketing for Electronic Traffic Violation Management System
 - 4.7.12 Data Management Systems
 - 4.7.13 Event Management System
 - 4.7.14 TSMS (Traffic Signals Management System)
 - 4.7.15 Disaster Recovery Centres comprising of all above
- 4.8 The materials, equipment and services to be supplied under the Contract shall have as their country of origin, an eligible country as per Section IV titled Eligible Countries.
- 4.9 The Applicant, or in case of a Consortium the Lead Partner, must provide Business Continuity Certificate on Form CC-4.9 stating the continuous up-gradation as well as manufacturing of core components of the technology solution, software integration, among others, of the Integrated Command & Command Control System for the life of the project(s).

5 Personnel Capabilities

- 5.1 The Applicant must submit profiles of at least one candidate against each of the following competencies. Citations of the projects done with the specific company may also be provided in personnel profile. The evaluation of same will be done as per Section II-Qualification Criteria.
- 5.1.1 Project Management
 - 5.1.2 Communication & Signals
 - 5.1.3 Business Process / Change Management
 - 5.1.4 Data Centre/Infrastructure
 - 5.1.5 Solution Architecture
 - 5.1.6 Hardware/Systems
 - 5.1.7 Software Analytics
 - 5.1.8 GIS Expert
 - 5.1.9 Networking
 - 5.1.10 Training Expert

6 Source of Finance

- 6.1 The successful Applicant(s) must finance the project(s) through Supplier Credit.
- 6.2 The tenure of the Supplier Credit and terms and conditions for its payback will be detailed in the Request for Proposal (RFP) document. However; the minimum payback period shall be for six (06) years or more after the completion of the project(s).
- 6.3 EPC completion time scale may be up to 10-15 months.
- 6.4 The successful bidder shall be responsible for Operations and Maintenance (O&M) of the project for a period of five (05) years after completion of the EPC component.
- 6.5 The financing of the projects will start immediately after the award of contract to the successful applicant(s) and the same shall be done as per the timelines set out in the bidding documents circulated to the prequalified bidders.
- 6.6 Each applicant shall submit the following information and the evaluation of the same will be done as per the Section II-Qualification Criteria:
- a. Financial statements,
 - b. Average annual turnover
 - c. Credit line, and
 - d. Credit worthiness
- 6.6.1 Submission of audited Financial Statement, or, if not required by the law of the applicant's country, management financial statements, for the last five (05) years to demonstrate the current soundness of the Applicant, or its Parent Company, financial position and its prospective long-term profitability.
- 6.6.2 Minimum average annual turnover of US\$ Three Hundred Million (US\$300,000,000/-) over the last five (05) years computed as per Audited Financial statements of the Applicant, or its Parent Company. The above mentioned can be calculated as total certified payments received for contracts in progress or completed, within the last five (05) years.
- 6.6.3 Available credit line of the Applicant, or its Parent Company, in the amount equivalent to US\$ Three Hundred Million (US\$ 300,000,000/-) to meet the cash flow requirement, which is a combination of undrawn / unencumbered credit facility/ cash bank balances supported by available credit line from a bank for smooth execution and completion of the Project.
- 6.6.4 Debt to equity ratio of the Applicant, or its Parent Company, must be less or equivalent to 70:30.
- 6.6.5 Debt service coverage ratio of the Applicant, or its Parent Company, must be equivalent or greater than 1.20.

- 6.6.6 The ratio of current asset to current liabilities of the Applicant, or its Parent Company, should be greater or equivalent to 1.01.
- 6.6.7 An alternative to the clauses 6.6.4 to 6.6.6 is to provide credit rating not less than (AA) by any international credit rating agency which is comparable with Fitch, Moody's etc.
- 6.7 In case where the Applicant provides the above mentioned information of its Parent Company, an undertaking on Form Fin-6.7 from the said Parent Company is also required to be submitted stating that the information submitted is true and correct.
- 6.8 The Applicant must provide details of the security of supplier's credit for the financiers, other than the sovereign guarantee, it requires from the Employer for providing the supplier's credit on Form Fin-6.8.

7 Clarification of Prequalification Documents

- 7.1 A prospective Applicant requiring any clarification of the Prequalification Documents shall contact the Employer in writing at the Employer's address as shown hereunder. The Employer will respond in writing to any request for clarification provided that such request is received no later than Ten (10) days prior to the deadline for submission of Applications. The Employer shall forward copies of its response to all Applicants who have acquired the Prequalification Documents directly from the Employer including a description of the inquiry but without identifying its source. Should the Employer deem it necessary to amend the Prequalification Documents as a result of a request for clarification, it shall do so following the procedure under ITA Clause 8 and in accordance with the provisions of Sub-Clause 17.2.

For clarification purposes only, the Employer's address is:

Contact # 1

Mr. Mudassir Ishaq Choudhary
pqd.mrsbfg@psca.gov.pk

Contact # 2

Mr. Rizwan Mirza
pqd.mrsbfg@psca.gov.pk

Punjab Safe Cities Authority (PSCA)
Qurban Police Lines, Lahore, Pakistan.

Phone # +92-42- 99205803

Phone # +92-42-99203360

Fax # +92-42-99203026

8 Amendment of Prequalification Documents

- 8.1 The employer may amend the prequalification documents by issuing addenda but not later than seven (07) days prior to the deadline for submission of applications.

- 8.2 Any addendum issued shall be part of the Prequalification Documents and shall be communicated in writing to all who have obtained the Prequalification Documents directly from the Employer.
- 8.3 To give prospective Applicants reasonable time in which to take an addendum into account in preparing their Applications, the Employer may, at its discretion, extend the deadline for the submission of applications.

9 Cost of Applications

- 9.1 The Applicant shall bear all costs associated with the preparation and submission of its application, and the Employer shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the prequalification process.

10 Language of Application

- 10.1 The application, as well as all correspondence and documents relating to the prequalification exchanged by the Applicant and the Employer, shall be written in the English language.

11 Documents Comprising the Application

- 11.1 The Application shall comprise the following:
- 11.1.1 Application Submission Sheet, in accordance with ITA Clause 12;
 - 11.1.2 Written confirmation authorizing the signatory of the application to commit the Applicant, in accordance with ITA Sub-Clause 15.3;
 - 11.1.3 Draft of Consortium or association agreement of the parties specifying share of each party; and
 - 11.1.4 Brief description and scope of work for which the association or Consortium intend to participate in bidding.

12 Application Submission Sheet

- 12.1 The Applicant shall prepare an Application Submission Sheet using the Submission form furnished in Section III, Application Forms. This form must be completed without any alteration to its format

13 Documents Establishing the Eligibility of the Applicant

- 13.1 To establish its eligibility in accordance with ITA Clause 3, the Applicant shall complete the eligibility declarations in the Application Submission Sheet and Forms ELI 1.1, 1.2, 1.3 and CC 3.11 included in Section III, Application Forms.

14 Documents Establishing the Qualification of the Applicant

14.1 To establish its qualifications to perform the contract in accordance with Section II, Qualification Criteria, the Applicant shall provide the information requested in the corresponding Information Sheets included in Section III, Application Forms.

15 Signing of the Application and Number of Copies

- 15.1 The Applicant shall prepare one original of the documents comprising the application as described in ITA Clause 11 and clearly mark it "ORIGINAL". The original of the application shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Applicant.
- 15.2 The Applicant shall submit three (3) copies of the signed original application, and clearly mark them "COPY". In the event of any discrepancy between the original and the copies, the original shall prevail.
- 15.3 The requirements regarding the legal instrument evidencing the authorization to represent and sign on behalf of the Applicant shall be a power of attorney, duly notarized and attested, indicating that the person(s) signing the Application has(ve) the authority to sign the Application for Prequalification.
- 15.3.1 The Power of Attorney is required to be duly stamped, witnessed, notarized according to the laws of the country where the Power of Attorney was issued and duly attested by Pakistan Foreign Office of the country where the power of attorney was issued.
- 15.3.2 Additionally, the date of issuance and validity of the power of attorney should also be specified, along with the name and designation of the signatory.
- 15.3.3 For a consortium, the power of attorney (duly stamped, witnessed and dated; as stated above) should be signed by all partners of the consortium and specify the authority of the named representative of the consortium to sign on behalf of the consortium.
- 15.3.3.1 Applications submitted by an existing or intended Consortium shall include an undertaking signed by all partners:
- 15.3.3.2 Stating that all partners shall be jointly and severally liable, and
- 15.3.3.3 Nominating a Representative to act as lead partner who shall have the authority & responsibility to conduct all businesses and ensure compliance thereof on behalf of any and all the partners of the Consortium during the prequalification process and, in the event the Consortium is prequalified, during the bidding process, and in the event the Consortium is awarded the Contract, during contract execution.

16 Sealing and Marking of Applications

- 16.1 The Applicant shall enclose the original and the copies of the application in a sealed envelope which shall
- 16.1.1 Bear the name and address of the Applicant;
- 16.1.2 Be addressed to the Employer, in accordance with Sub-Clause ITA 7.1; and bear the specific identification of this prequalification process indicated in the ITA Sub-Clause 1.1.
- 16.1.3 Each page of the original and all the copies should be initialed by the authorized representative.
- 16.2 If the envelope is not sealed and marked as required, the Employer will assume no responsibility for the misplacement of the application.

17 Deadline for Submission of Applications

- 17.1 Applications shall be submitted by the Applicant through courier /express mail or by hand at the address indicated in the ITA Sub-Clause 7.1 above. However, applicant must ensure that the applications must reach no later than the following deadline:

Date: January 16, 2017

Time: 1500 hours, (Pakistan Standard Time)

- 17.2 Electronically submitted application shall not be entertained and treated as rejected
- 17.3 The Employer may, at its discretion, extend the deadline for the submission of Applications by amending the Prequalification Documents in accordance with ITA Clause 8.3, in which case all rights and obligations of the Employer and the Applicant subject to the previous deadline shall thereafter be subject to the deadline as extended.
- 17.4 All prospective Applicants are required to submit an amount of PKRs. 100,000/- in PSCA's Account titled "Establishment of IC3 Funds PSCA, Account Number CD 3630020001850007, Bank of the Punjab, Maisonette Branch, Gulberg III, Lahore, Pakistan". The deposit slip must accompany the respective proposal.

18 Late Applications

- 18.1 Any application received after the submission date and time specified in Clause 17.1 shall be rejected.

19 Opening of Applications

- 19.1 The Employer shall prepare a record of the opening of Applications that shall include, as a minimum, the name of the Applicant. A copy of the record shall be distributed to all Applicants.

20 Confidentiality

- 20.1 Information relating to the evaluation of Applications, and recommendation for prequalification, shall not be disclosed to Applicants or any other persons not officially concerned with such process until the notification of prequalification is made to all Applicants.
- 20.2 From the deadline for submission of Applications to the time of notification of the results of the prequalification in accordance with ITA Clause 26, if any Applicant wishes to contact the Employer on any matter related to the prequalification process, it may do so in writing.

21 Clarification of Applications

- 21.1 To assist in the evaluation of Applications, the Employer may, at its discretion, ask any Applicant for a clarification of its application which shall be submitted within a stated reasonable period of time. Any request for clarification and all clarifications shall be in writing.
- 21.2 If an Applicant does not provide clarifications of the information requested by the date and time set in the Employer's request for clarification, its Application may be rejected.

22 Responsive-ness of Applications

- 22.1 The Employer may reject any Application which is not responsive to the requirements of the Prequalification Documents.
- 22.2 The Employer reserves the right to waive minor deviations and omissions, if these do not materially affect the capability of an Applicant as required under the Prequalification Document.
- 22.3 Subcontractor's experience and resources shall be taken into account in determining the Applicant's compliance with the qualifying criteria.

23 Evaluation of Applications

- 23.1 The Employer shall use compliance to eligibility requirements in Section I and the criteria and methods defined in Section II, Qualification Criteria to evaluate the qualifications of the Applicants.
- 23.2 As stipulated in ITA 1.1, this prequalification exercise shall be for the Establishment of Integrated Command Control & Communication for the major cities of Punjab, inter alia, Multan, Rawalpindi, Sargodha, Bahawalpur, Faisalabad & Gujranwala.

24 Employer's Right to Accept or Reject Applications

- 24.1 The Employer reserves the right to accept or reject any Applications and to annul the prequalification process and reject all applications at any time, without justifying the reasons and/or thereby incurring any liability to Applicants.

25 Prequalification of Applicants

- 25.1 The Employer intends to prequalify Applicants for the Request for Proposal (RFP) stage for following Works under this project: Engineering, Procurement and Construction (EPC)

26 Notification of Prequalification

- 26.1 Once the Employer has completed the evaluation of the Applications it shall notify all Applicants in writing of the names of those applicants who have been prequalified.

27 Invitation to Bid

- 27.1 After the notification of the results of the prequalification, the Employer shall invite bids from all the Applicants that have been prequalified.
- 27.2 Applicants shall be required to provide bid security in the form of a demand guarantee or other security acceptable to the Employer for an amount as specified in the bidding document.
- 27.3 A qualified firm or a qualified Consortium may participate in one, multiple or all bid(s) for the contract of the Projects under PSCA until 31 December 2018.
- 27.4 The Employer may revise the evaluation and qualification criteria in RFP issuance stage.

28 Changes in Qualifications of Applicants

- 28.1 Any change in the qualification status of an Applicant after being prequalified in accordance with ITA Clause 27 shall be subject to the written approval of the Employer.
- 28.2 In case a consortium dissolves due to any reasons, the consortium shall be considered disqualified.
- 28.3 In such case as referred in Clause 28.2, the consortium as well as its partners shall be considered as disqualified and shall not be able to participate in the bidding process.

Section II. Qualification Criteria

The following qualification criteria shall be observed on the eligible Applicants as per ITA Clause 3 in this prequalification document.

Sr. No.	Category	Weightage /Marks
1.	Experience	60
2.	Technical Solution	05
3.	Personnel Capabilities	15
4.	Source of Finance	20
Total		100

Note: Prequalification status shall be decided on Pass/Fail basis. The applicant must secure at least 70% score in each category. The applicant must meet the mandatory requirements wherever stated in this section and in case of non-compliance the applicant will be declared not responsive to the requirements of this prequalification document.

4 Experience

There are two categories within Experience i.e. 4.2) General Experience (10 marks) and 4.3) Specific Experience (50 marks).

4.2 General Experience

Description	Marking Criteria	Maximum Marks (10 Marks)	Self-Evaluation (Marks)	Submission Requirements
01 Mega project in home country in accordance with Clause 4.2	3.5 Marks (Mandatory)	3.5 Marks		EXP-4.2
01 Mega project out of country of origin in accordance with Clause 4.2	3.5 Marks (Mandatory)	3.5 Marks		
One additional project of similar requirements either in home country or out of country of origin	03 Marks (Additional)	03 Marks		

4.3 Specific Experience

Description	Requirements	Status	Marking Criteria	Maximum Marks	Self-Evaluation (Marks)	Submission Requirements
02 Command & Control Systems in accordance with Clause 4.3	Design	Mandatory	17.5 Marks for each project (Mandatory)	35 Marks		EXP-4.3
	Supply	Mandatory				
	Installation	Mandatory				
	Software Development	Mandatory				
	System Integration	Mandatory				
	Telecommunication/LTE/LTE-A	Mandatory				
	Construction	Mandatory				

	Training	Mandatory				
	Testing and Commissioning	Mandatory				
	Operations, Maintenance & Support	Mandatory				
01 additional project of similar Requirements			15 Marks (Additional)			

4.7 Technical Solution

Technical solution carries 05 marks against fifteen categories out of which ten categories are mandatory.

Description	Requirements	Status	Marking Criteria	Maximum Marks	Self-Evaluation (Marks)	Submission Requirements
Technical solution in accordance with Clause 4.7	Video Surveillance	Mandatory	0.35 Mark	05 Marks (3.5 Marks for prequalification; 1.5 Marks additional)		TS-4.7
	Video Analytics	Mandatory	0.35 Mark			
	GIS	Mandatory	0.35 Mark			
	CAD	Mandatory	0.35 Mark			
	AVLS	Mandatory	0.35 Mark			
	LTE/LTE-A	Mandatory	0.35 Mark			
	ANPR	Mandatory	0.35 Mark			
	Integrated Voice & Data Platform	Mandatory	0.35 Mark			
	ITMS	Mandatory	0.35 Mark			
	Networking & OFC	Mandatory	0.35 Mark			
	E-Ticketing	Additional	0.30 Mark			
	Event Management System	Additional	0.30 Mark			
	Data Management Systems	Additional	0.30 Mark			
	TSMS	Additional	0.30 Mark			
Disaster Recovery Centres	Additional	0.30 Mark				

5.1 Personnel Capabilities

Personnel capabilities carry 15 marks against ten categories out of which seven categories are mandatory.

Description	Status	Qualification	Local/Foreign Experience	No. of projects executed with the company in similar capacity	Amount of Projects Executed
		Minimum of Sixteen (16) years of education Marks = 0.2	04 Projects Marks= 0.4	02 Projects Marks= 0.7	US\$ 30 Million or greater net worth Marks= 0.2
5.1.1 Project Management	Mandatory				
5.1.2 Communication & Signals	Mandatory				
5.1.3 Business Process /Change Management	Mandatory				
5.1.4 Data Centre/Infrastructure	Mandatory				
5.1.5 Solution Architecture	Mandatory				
5.1.6 Hardware/Systems	Mandatory				
5.1.7 Software Analytics	Mandatory				
5.1.8 GIS Expert	Additional				
5.1.9 Networking	Additional				
5.1.10 Training Expert	Additional				
Self-Evaluation (Marks)					
Maximum Marks	15 Marks (10.5 Marks for prequalification; 4.5 Marks additional)				
Submission Requirements	Form PER-5.1				

6 Source of Finance

Source of finance comprise of four categories i.e. 6.6.1) Audited Financial Statements (02 marks) 6.6.2) Average Annual Turnover (04 marks) 6.6.3) Credit Line (07 marks) and 6.6.4-6) Credit Worthiness (07 marks)

Description	Marking Criteria	Maximum Marks (20 Marks)	Self-Evaluation (Marks)	Submission Requirements
6.6.1 Audited Financial Statements for last five (05) years	02 Marks (Mandatory)	02 Marks		FIN-6.6.1
6.6.2 Average Annual Turnover for last five (05) years \geq US\$ 300 Million	04 Marks (Mandatory)	04 Marks		FIN-6.6.2
6.6.3 Available Credit Line = US\$ 300 Million	04 Marks (Mandatory)	04 Marks		FIN-6.6.3
If Available Credit Line $>$ US\$ 300 Million	03 Marks (Additional)	03 Marks		FIN-6.6.3
6.6.4-6 Credit Worthiness (Debt Equity Ratio = 70:30, Debt Service Coverage Ratio = 1.20, Current Ratio = 1.01)	04 Mark (Mandatory)	04 Marks		FIN-6.6.4
If credit worthiness (Debt Equity Ratio $<$ 70:30, Debt Service Coverage Ratio $>$ 1.20, Current Ratio $>$ 1.01)	03 Marks (Additional)	03 Marks		FIN-6.6.4

Note: An alternative to the clauses 6.6.4 to 6.6.6 is to provide credit rating not less than (AA) by any international credit rating agency which is comparable with Fitch, Moody's etc.

3. Eligibility Criteria

Criteria Requirement	Compliance Requirement			Self-Evaluation	Documents Submission Requirements
	Single Entity	Consortium			
		All Partners	Each partner		
3.1.5 Nationality					
Nationality in accordance with the ITA clause 3.1.5	must meet requirement	Consortium must meet Requirement	must meet requirement		Forms ELI-3.1.5.1; ELI-3.1.5.2 with attachments
3.3 Conflict Of Interest					
No conflict of interest in accordance to ITA Clause 3.3	must meet requirement	Consortium must meet Requirement	must meet requirement		Application Submission Sheet
3.4 Blacklisting					
Blacklisted in accordance to ITA clause 3.4	must meet requirement	Consortium must meet Requirement	must meet requirement		Form ELI-3.4
3.6 PEC Licensing					
In accordance to the ITA clause 3.1.4/3.6	must meet requirement	Consortium must meet Requirement	must meet requirement		Application Submission Sheet

3.8 Pending Litigation

Criteria Requirement	Compliance Requirement			Self-Evaluation	Documents Submission Requirements
	Single Entity	Consortium			
		All Partners	Each partner		
In accordance to the ITA clause 3.8	must meet requirement	Consortium must meet Requirement	must meet requirement		Form LIT-3.8

Section III. Application Forms

APPLICATION SUBMISSION SHEET

Date:

Engineering Procurement Construction (EPC) of Punjab Police Integrated Command Control & Communication (PPIC3) Centres under Supplier's Credit mode in Punjab for Major Cities, inter alia, Multan, Rawalpindi, Sargodha, Bahawalpur, Faisalabad, Gujranwala (MRSBFG).

**To: The Punjab Safe Cities Authority (PSCA)
Qurban Lines Lahore, Pakistan.**

We, the undersigned, apply to be prequalified for the referenced IFP and declare the following:

- a) We have examined and have no reservations to the Prequalification Documents, including Addends No(s) issued in accordance with ITA Clause 8.
- b) We, including all Consortium partners for any part of the contract(s) resulting from this prequalification process, if any, have nationalities of eligible countries, in accordance with ITA Sub-Clause 3.1.5.
- c) We understand that at the time of bidding, we, including any Consortium partners for any part of the contract resulting from this procurement process, shall not have any conflict of interest in accordance with ITA Sub-Clause 3.3.
- d) We, including any Consortium partners for any part of the contract(s) resulting from this prequalification, have not been declared ineligible/blacklisted by the Government of Pakistan/Government of Punjab /Governments of eligible countries or their Governmental Bodies and International Organizations e.g. World Bank, Asian Development Bank, United Nations, IMF etc. including the Employer in accordance with ITA Sub-Clause 3.4.
- e) We, including any Consortium partners for any part of the contract(s) resulting from this prequalification, comply with the Standard Anticorruption Policy of Government of the Punjab have not been declared ineligible any Court of Law or Governmental Body of the world due to corrupt/fraudulent/collusive/coercive practices in accordance with ITS Sub-Clause 3.9.
- f) We, including any Consortium partners comply with the PEC and SECP requirements in accordance with ITA Sub-Clause 3.1.4 and 3.6.
- g) We understand that you may cancel the prequalification process at any time and that you are not bound either to accept any application that you may receive or to invite the prequalified applicants to bid for the contract subject of this prequalification, without incurring any liability to the Applicants, in accordance with ITA Sub Clause 24.1.
- h) We agree to permit the Employer or its representative to inspect our accounts and records and other documents relating to the application for prequalification and to have them audited by auditors appointed by the Employer.
- i) All of the Forms accompanying the Application have duly been signed by the undersigned and stamped.

Name.....

In the capacity of

Signed

(Seal)

Duly authorized to sign the Application for and on behalf of(Name of Applicant)

Date

FORM CC - 3.13
CERTIFICATE OF COMPLIANCE

Applicant's Legal Name

Date: -----

Consortium Partner Legal name

We ---- (Name of Applicant), hereby certify that pursuant to the Mandatory Requirements of Section 1 Clause 3 of this Prequalification Documents, our status is as following:

Clause	Description	Status	
		Yes	No
3.4	We are not Blacklisted by the Government of Pakistan/Government of Punjab/Governments of eligible countries or their Governmental Bodies and International Organizations e.g. World Bank, Asian Development Bank, United Nations, IMF etc. including the Employer in accordance with the Sub-Clause 3.4		
3.1.4/ 3.6	We fulfill the requirements of PEC in accordance with the Sub-Clause 3.1.4/3.6		
3.8	We fulfill the requirement of Pending Litigations in accordance with the Sub-Clause 8		
3.9	We comply with the Standard Anticorruption Policy of Government of the Punjab and have not been declared ineligible any Court of Law or Governmental Body of the world due to corrupt/fraudulent/collusive/coercive practices in accordance with ITA Sub-Clause 3.9.1		
3.12	We are not Concealing any Information that might hinder the execution of the project		

We hereby certify that all information stated above is correct and non-compliance to any of the above mentioned mandatory requirements will disqualify us from the prequalification process.

Applicant's Signatures

FORM CC - 4.6

CURRENT CONTRACT COMMITMENTS

The Applicant must provide details regarding current contract commitments, inter alia, work in hand, duration, personnel engagement, contract price etc. as following to ascertain applicant's unhindered availability for execution of the Project.

Current Contract Commitments							
Contract Identification and Name and Address of Employer	Starting (Month/Year)	Expected Ending (Month/Year)	Contract Price (US\$)	Brief Description of the Works	Number of Personnel Engaged	Litigation, if any.	Any Other Relevant Information

Note: Documentary Evidence of the project(s) stated above must be attached.

Applicant's Signatures

FORM CC - 4.9

BUSINESS CONTINUITY CERTIFICATE

Applicant's Legal Name

Date: -----

Consortium Partner Legal name

We ---- (Name of Applicant), hereby certify to provide business continuity for continuous up gradation as well as manufacturing of core components of the technology solution, software integration, among others, of the Integrated Command & Command Control System for the life of project(s) pursuant to ITA Sub-Clause 4.9 of this Prequalification Documents.

Applicant's Signatures



**FORM ELI – 3.1.5.1
APPLICANT INFORMATION SHEET**

Date: -----

Applicant Information	
Applicant's legal name	
In case of Consortium, legal name of each partner	
Applicant's actual or intended country of constitution	
Applicant's actual or intended year of constitution	
Applicant's legal address in country of constitution	
Applicant's authorized representative (name, address, telephone numbers, fax numbers, e-mail address)	

Attached are copies of the following original documents:

- In case of single entity, articles of incorporation or constitution of the legal entity named above, in accordance with ITA Sub-Clauses 3.1.4 and 3.6.
- Authorization to represent the firm or Consortium named in above, in accordance with ITA Sub-Clause 15.3.
- In case of Consortium, letter of intent to form Consortium or Consortium agreement, in accordance with ITA Sub-Clause 11.1.3.

Applicant's Signatures

**FORM ELI – 3.1.5.1
CONSORTIUM INFORMATION SHEET FOR CONSORTIUM PARTNERS**

Date: -----

Each member of a Consortium must fill in this form

Consortium Information	
Applicant's legal name	
Consortium Partner's legal name	
Consortium Partner's country of constitution	
Consortium Partner's year of constitution	
Consortium Partner's legal address in country of constitution	
Consortium Partner's authorized representative (name, address, telephone numbers, fax numbers, e-mail address)	

Attached are copies of the following original documents:

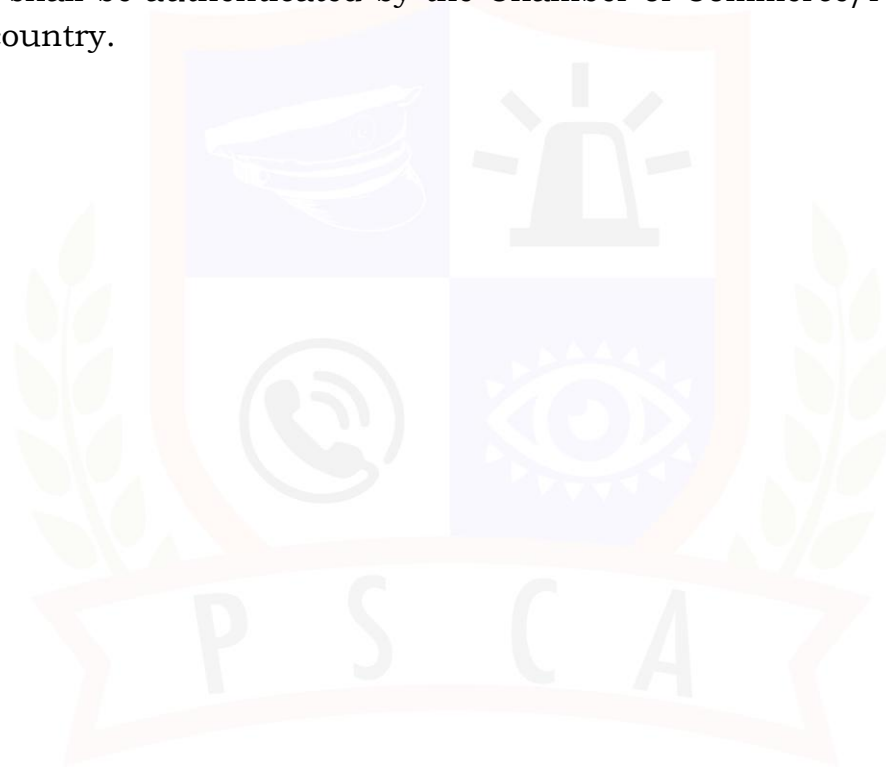
- In case of single entity, articles of incorporation or constitution of the legal entity named above, in accordance with ITA Sub-Clauses 3.1.4 and 3.6.
- Authorization to represent the firm or Consortium named in above, in accordance with ITA Sub-Clause 15.3.
- In case of Consortium, letter of intent to form Consortium or Consortium agreement, in accordance with ITA Sub-Clause 11.1.3.

Applicant's Signatures

FORM ELI – 3.4 INELIGIBILITY/BLACKLISTING

The local Applicant/Partner of the Consortium shall attach original affidavit duly authenticated by the Chamber of Commerce and Industry on non-judicial stamp paper that the Applicant has not been declared ineligible/blacklisted by any Government of Pakistan/Government of Punjab /Governments of all foreign countries or their Governmental Bodies and International Organizations e.g. World Bank, Asian Development Bank, United Nations, IMF etc. including the Employer till date due to the reasons including but not limited to corrupt practices as depicted at ITA Clause 3.9, influencing the Employer in evaluation of the Bids or contract award decisions etc.

The foreign Applicant/Partner of the Consortium shall undertake as above and the undertaking shall be authenticated by the Chamber of Commerce/relevant authorized body of his country.



**FORM LIT – 3.8
PENDING LITIGATION**

Applicant’s Legal Name

Date: -----

Consortium Partner Legal name

Each Applicant or each partner of a Consortium must fill in this form.

Pending Litigation			
<input type="checkbox"/> Pending litigation in accordance with Criteria 3.8 of Section II, Qualification Criteria, as indicated below			
Month/Year	Matter of Dispute	Value of Pending Claim in US\$ Equivalent	Value of Pending Claim as a Percentage of Net Worth

Applicant’s Signatures

**FORM EXP – 4.2
GENERAL EXPERIENCE**

Applicant’s Legal Name

Date: -----

Consortium Partner Legal name

Each Applicant or each partner of a Consortium must fill in this form.

General Experience					
Starting (Month/ Year)	Ending (Month/ Year)	Contract Price (US\$)	Contract Identification and Name and Address of Employer	Brief Description of the Works Executed by the Applicant	Role of Applicant

Note: The Employer’s/End User’s Certificates on their letterhead should be attached. If not in English, translation thereof in English, duly authenticated/notarized must be attached.

In the above table of, the information including but not limited to the following should be provided:

- 1) Amount (insert in US Dollars in words and figures)
- 2) Project type & size
- 3) Other characteristics (insert other characteristics as required in Criteria 4.2 of Section II)

Applicant’s Signatures

**FORM EXP – 4.2
SPECIFIC EXPERIENCE**

Applicant’s Legal Name

Date: -----

Consortium Partner Legal name

Fill up one (1) form per contract

Specific Experience				
Contract No		Contract Identification		Description of Works Executed by Applicant
Award Date		Completion Date		<input type="checkbox"/> Design
Number of Surveillance Cameras				<input type="checkbox"/> Supply
Role in Contract	<input type="checkbox"/> Contractor	<input type="checkbox"/> Management Contractor	<input type="checkbox"/> Sub-Contractor	<input type="checkbox"/> Installation
Total Contract Amount				<input type="checkbox"/> Software Development
If partner in a Consortium, specify				<input type="checkbox"/> System Integration
Participation of Total Contract Amount		<input type="checkbox"/> Contractor		<input type="checkbox"/> Telecommunication /LTE/LTE-A
Employer’s Name				<input type="checkbox"/> Testing
Address				<input type="checkbox"/> Training
Telephone/Fax Number				<input type="checkbox"/> Commissioning
E-mail				<input type="checkbox"/> Maintenance & Support

Note: The Employer’s/End User’s Certificates on their letterhead should be attached. If not in English, translation thereof in English, duly authenticated/notarized must be attached.

In the above table of, the information including but not limited to the following should be provided:

- 1) Amount (insert in US Dollars in words and figures)
- 2) Project type & size
- 3) Other characteristics (insert other characteristics as required in Criteria 4.3 of Section II)

Applicant’s Signatures

FORM TS-4.7

TECHNICAL SOLUTION

The Applicant must submit an overall technical solution to demonstrate its understanding of safe city projects including the following components in the form of a presentation not exceeding hundred (100) slides:

- 4.7.1 Video Surveillance
- 4.7.2 Video Analytics
- 4.7.3 GIS (Geographic Information System)
- 4.7.4 CAD (Computer Aided Dispatch)
- 4.7.5 AVLS (Automated Location Management System)
- 4.7.6 LTE/LTE-A Communications
- 4.7.7 ANPR (Automated Number Plate Recognition)
- 4.7.8 Integrated Voice & Data Platform (e.g. with CAD, GIS, and softwares)
- 4.7.9 ITMS (Police/Intelligent Traffic Management System)
- 4.7.10 Networking & OFC (Optical Fiber Cable) Design and Execution
- 4.7.11 E-Ticketing for Electronic Traffic Violation Management System
- 4.7.12 Data Management Systems
- 4.7.13 Event Management System
- 4.7.14 TSMS (Traffic Signals Management System)
- 4.7.15 Disaster Recovery Centres comprising of all above

**FORM PER - 5.1
PERSONNEL CAPABILITIES**

Candidate Summary

Position			
Candidate Information	Name		Date of Birth
	Professional Qualification		
Present Employment	Job title of candidate		
	Name of employer		
	Address of employer		
	Contact (manager/personnel officer)		
	Telephone		
	Fax		
	Years of working with the Applicant		
	Number of projects executed with the Applicant		
Total net worth of Projects executed (US\$)			

Summarize professional local experience over the last 05 years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the Project.

Month/Date/Year		Company	Project	Position	Duties	Net Worth of Project (US\$)
From	To					

Summarize professional foreign experience over the last 05 years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the Project.

Month/Date/Year		Company	Project	Position	Duties	Net Worth of Project (US\$)
From	To					

In case of local engineers, they must possess valid PEC registration. In case of foreign engineers, the relevant registration/certificate from their professional institution must be provided. All the profiles must be supported with the letter of satisfactory performance from the employer (current/previous).

Applicant's Signatures

**FORM FIN – 6.6.1
FINANCIAL SITUATION**

Applicant’s Legal Name

Date: -----

Consortium Partner Legal name

Each Applicant or partner of a Consortium must fill in this form

Financial Data for Previous 5 Years [US\$ Equivalent]					
	Year 1	Year 2	Year 3	Year 4	Year 5
Information from Balance Sheet					
Total Assets (a)					
Total Liabilities (b)					
Net Worth (a-b)					
Current Assets (c)					
Current Liabilities (d)					
Working Capital (c-d)					
Information from Income Statement					
Total Revenues					
Profits Before Taxes					
Profits After Taxes					

Applicant’s Signatures

**FORM FIN – 6.6.2
AVERAGE ANNUAL TURNOVER**

Applicant’s Legal Name

Date: -----

Consortium Partner Legal name

Each Applicant or partner of a Consortium must fill in this form

Average Annual Turnover Data for the Last 5 Years			
Year	Amount Currency	Exchange Rate	US\$ Equivalent
1			
2			
3			
4			
5			
Average Annual Turnover			

The information supplied should be the Annual Turnover of the Applicant or each partner of a Consortium in terms of the amounts billed to clients for each year for work in progress or completed, converted to US Dollars at the rate of exchange at the end of the period reported.

Applicant’s Signatures

FORM FIN – 6.6.3 CREDIT LINE

The Applicant shall provide original certificate from reputed banks/DFIs to the effect that the applicant (individual/Consortium) has financial resources/access/ un-encumbered cash/bank balance to the said credit line for smooth execution/completion of the Project.

Besides, the “Available Credit Line” must be demonstrated, inter alia, through a combination of undrawn credit facility and unencumbered cash/bank balances.



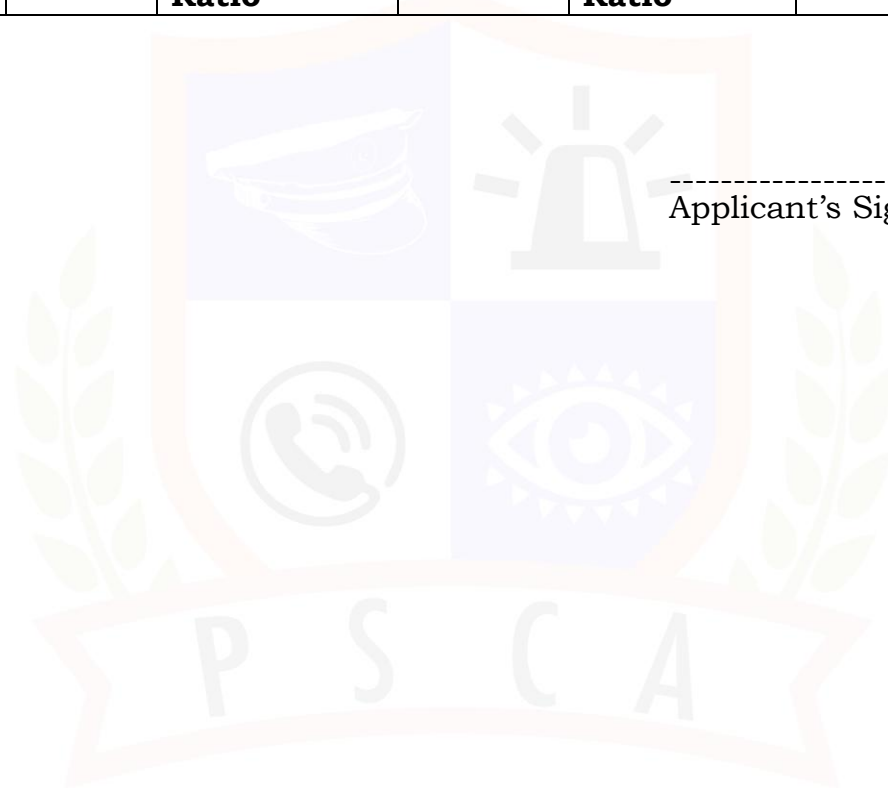
**FORM FIN 6.6.4
CREDIT WORTHINESS**

Applicant's Legal Name

Date: -----

Consortium Partner Legal name

Debt Equity Ratio		Debt Service Coverage Ratio		Current Ratio	
Debt		Debt		Current Assets	
Equity		Service		Current Liabilities	
Ratio		Ratio		Ratio	



Applicant's Signatures

FORM FIN – 6.7
UNDERTAKING BY PARENT COMPANY

The Applicant, if required in accordance with clause 6.7, must provide an undertaking from its Parent Company stating that the financial information submitted is true and correct.



FORM FIN – 6.8
SECURITY OF SUPPLIER’S CREDIT

The Applicant must provide details of the security of supplier’s credit for the financiers, other than the sovereign guarantee, it requires from the Employer for providing the supplier’s credit



SECTION IV. ELIGIBLE COUNTRIES

All countries of the world and International Agencies such as World Bank, Asian Development Bank etc. with which Government of Islamic Republic of Pakistan has commercial/trade relations, except those upon which international sanctions are imposed.



PART 2. REQUIREMENTS

SECTION V. SCOPE OF CONTRACT

Brief Scope of the Project(s)

The project aimed at developing operational processes, facilities and ICT infrastructure aligned together to ensure support to the evolving capacity, capability and efficiency in accomplishing the duties of law enforcement agencies. It describes the future state of call taking, dispatch, surveillance and monitoring, incident response and incident management operations for the Punjab Police Service. As part of the overall solution design, the project will ensure that Punjab Police has the capabilities and facilities to access and assess background information on the incident and deployment activity as well as any other relevant information which may influence what, how, when, where and whether deployment is made and provide information relevant to investigation and officer safety. This coupled with documented processes and procedures will enable performance monitoring and improvement which in turn will lead to improved time to answer, better resource utilization and desired business outcomes. The key components of the scope of the work are enlisted below. The components may be added or deleted based on the design proposed by various applicants.

- 1) **Technology Implementation** – To be provided with the following systems.
 - a) **CAD (Computer Assisted Dispatch) System** – To provide the means to capture the details of an incident.
 - b) **ACD (Automatic Call Distribution) System** – To distribute both conventional telephone calls and VOIP (Voice of Internet Protocol) calls to the operators within the PPIC3 Centre and the Police Stations
 - c) **GIS (Geographic Information) System** – To provide the operators with a map of the area that they are responsible for.
 - d) **ICP (Integrated Communications Platform)** – To provide a single access point to the LTE Radio network, the VOIP telephone system, the conventional phone system, the legacy radio systems (Tetra, UHF and VHF) and control of the CCTV system.
 - e) **IPNV (Close Circuit Television) System** – To provide images for incident and event management but will also be connected to the analytics systems.
 - f) **Crime Record Management System** – To provide the intelligence aspect to be added to Police response.
 - g) **ANPR (Automatic Number Plate Recognition) System** – To capture number plates of vehicle passing through their fields of view.
 - h) **SOPs/FAQ (Standard Operating Procedures/Frequently Asked Questions)** – To provide information for managing events and incidents from the SOPs and to also provide answers to members of the public for questions they may have concerning the Police.
 - i) **Gazetteer** – A database of geographical information to assist in Event planning and responses to Civil emergencies.
 - j) **Resource Management System** – To provide the ability to plan the manning of the PPIC3 Centre using the Human Resource Management System and an integrated fixed and mobile Assets Management System at a larger scale.

- k) **AVLS (Automatic Vehicle Location System)** – To allow the GIS system, from data from the LTE network, to display the location of all the vehicles that are available for dispatch to incidents or that are being used to manage events.
- l) **APLS (Automatic Personal Location System)** – The APLS allows the GIS system, from data from the LTE network, to display the location of personal that are available to dispatch to incidents or that are being used to manage events.
- m) **Analytics Systems** – To provide Facial recognition, Object Tracking, Forensic Analysis, Left Object recognition, Event detection, Vehicle and People counting, Loitering and Counter Flow detection etc.
- n) **Management Infrastructure System** – To provide one platform for configuration for the specific groups, define new users on the system, provide rights management for access to cameras, building management system, access control, network operations security system, firefighting system and other control mechanisms related to electric and HVAC systems etc.
- o) **Command and Control System** - To provide an umbrella concept subsuming Command and Control Event Management system (EMS), Geographic Information System (GIS), Resource Management System, Integrated Automatic Resource Location System (ARLS), and Mobile Data Terminals, a comprehensive operational system of Police to reorient its operations, investigations and traffic management system under one roof.
- p) **Integrated Video Management System (IVMS)** – To provide system including Control and Management of Digital Recording and Archiving, Specific Analysis Tools, Video Walls and Control Systems, and In-Vehicle Video Systems.
- q) **Specialist Command Vehicles** – To provide local command and control of events e.g. International Cricket matches or for major incidents e.g. Aircraft Crash
- r) **UAV (Unmanned Aerial Vehicle)** – To provide support to the PPIC3 Centre when the installed resources e.g. CCTV cameras do not have the coverage of the area where an incident is ongoing or when surveillance is required of a covert nature.
- s) **Police Traffic Management System**
- i. **JTMS (Journey Time Monitoring) System** – To calculate the time taken for a vehicle to travel between two points in Lahore. This information will be used to inform the citizens of Lahore as to areas of congestion, blocked roads and diversions that provide a quicker route.
 - ii. **RLMS (Red Light Monitoring System)** – To capture the number plates of vehicles which ignore red lights at traffic signals. The same system will also monitor traffic flow to ensure that vehicles are using the correct lanes.
 - iii. **E-Ticketing System** – To allow traffic police officers to issue traffic offence notices for incorrect or no licenses and any other traffic offences that may have been committed.
 - iv. **Variable Message System (VMS)** – To inform drivers as to obstructions on the route ahead i.e. at the road side signs will be installed which will display the appropriate message for the road it is installed upon.
 - v. **Pedestrian Safety Signs** – For safety of road users, automated pedestrian traffic signs will be installed at all busy crossing points.
 - vi. **Public Address System** - For public addressing and ensuring smooth flow of traffic and public guidance.
- 2) **Main Data Centre** - To be equipped with the modern surveillance system to meet

the requirements of a dynamic and complex policing environment, operational processes, facilities and ICT infrastructure to be aligned to ensure support to the evolving capacity, capability, efficiency and effectiveness approach.

- 3) **Disaster Recovery Centre** – To serve as the backup facility for the MDC databases, storage, recovery and if required, operations as well.
- 4) **Camera and Traffic Field Sites** - Civil works related to the field equipment installation including surveillance cameras, poles, cabinet, specialized field assets, network distribution switches etc.
- 5) **Communication Infrastructure** – To establish communication infrastructure and its integration with the other PPIC3 centres in different cities.
- 6) **Field Equipment** –Strategic Surveillance Locations, Surveillance of Public Places, Surveillance of Intersections, Surveillance of Highways, Surveillance of Iconic Buildings / Locations, Camera installation and Security and power and connectivity.
- 7) **Implementation and Fit-out** – Data Centre fit-out, structured cabling, furniture and desktop as well as system integration and testing processes and regime.
- 8) **Police Procedural and Cultural Transformation:**
 - a) **Development of Operational Processes** – Standard Operating Procedures (SOPs) for Emergency Call Centre, Dispatch Call Centre, Operation Monitoring Centre and Crisis Management Centre along with a business change strategy to help migrate from the existing emergency “15” control rooms to the new PPIC3 base
 - b) **Capacity Building for the PPIC3 operations;**
 - i. **Organization Structure** – To provide core competencies and expertise required to run the operations of the centre. There will be four distinct units within the centre including Administration, Technical, Operations and Command unit.
 - ii. **Training and Development** – To build capacity and core competencies required for efficient working and effective operations

SECTION VI. SCHEDULE

Tentative Schedule

The expected sequence of execution of projects is presented below:

Sr. #	Action	Date
1	Issuance of Prequalification Documents	10 th December 2016
2	Issuance of Bidding Document to Prequalified Applicants	End of January 2017
3	Submission of Bids	End of February 2017
4	Award of Contract / Notice to Proceed (NTP)	End of March 2017
5	Start date	Mid-April 2017
6	Completion Date	End of December 2017

Site

The site has been identified for setting-up the establishment of Punjab police integrated Command Control & Communication Centers in Punjab at Major Cities, inter alia, Multan, Rawalpindi, Sargodha, Bahawalpur, Faisalabad & Gujranwala (MRSBFG).

Site Support

The Punjab Safe Cities Authority will facilitate the successful applicant(s) for the utilities, right of way etc.

Security

The Punjab Safe Cities Authority will ensure the security of the personnel's of the successful applicant (s) in the field during the course of project(s).

Owner's Engineer/Technical Staff

The Punjab Safe Cities Authority, Government of Punjab is supported by a group of professionals and consultants with the vast experience of dealing with high tech projects, nationally as well as internationally.