



Request for Proposal (RFP)
For
Selection of Master Systems Integrator for
Implementation of Integrated Command & Control
Center (ICCC) and SMART Components in Ludhiana
City

Volume 1 – Instruction to Bidders
Date: 6th December 2018

Invited by:
Ludhiana Smart City Limited (LSCL)
2nd Floor, Office of CEO,
Zone A- Ludhiana Municipal Corporation Office,
Mata Rani Chowk, Ludhiana, Punjab

Table of Contents

Disclaimer	5
Important Dates	6
Glossary	7
Definitions	9
1. Introduction	12
1.1 About The Ludhiana Smart City Limited (LSCL)	12
1.2 Introduction to Ludhiana Smart City Project	12
1.3 Fact Sheet	15
2. Instructions to the Bidder	17
2.1 Instructions for Online Bid submission	17
2.2 General	19
2.3 Eligible Bidders.....	20
2.4 Proposal Preparation Cost	21
2.5 Pre-Bid Meeting	22
2.6 Conflict of Interest.....	23
2.7 Compliant Bids/Completeness of Response	23
2.8 Right to amendment of the project scope	23
2.9 LSCLs rights to terminate the selection process.....	24
2.10 Right to Accept/Reject any proposal	24
2.11 Bidder to Inform	25
2.12 Bid Formats	25
2.13 Language of the Bid	29
2.14 Hand written documents, Erasures or Alterations	29
2.15 Earnest Money Deposit (EMD) / Bid Security	29
2.16 Bid Prices	30
2.17 Firm Prices.....	30
2.18 Amendment of the RFP Document	30
2.19 Inspection of Site and sufficiency of RFP	31
2.20 Deviations and Exclusions	31
2.21 Total Responsibility	31
2.22 Key Personnel	31
2.23 Inclusion of MSMEs in Project Delivery	33
2.24 Right to vary quantity	33
2.25 Withdrawal, Substitution and Modification of Bids.....	33
3 Selection Criteria	34
3.1 Opening of Bids	34
3.2 Preliminary Examination of Bids	34
3.3 Clarification on Bids.....	35
3.4 Evaluation Process	35
3.4.1 Stage 1: Pre-Qualification	35
3.4.2 Stage 2: Technical Evaluation	36
3.4.3 Stage 3: Commercial Evaluation	36
3.4.4 Successful bidder evaluation	37
3.5 Pre-Qualification Criteria	37
3.6 Technical Bid Evaluation Criteria	43

3.7	Conditional bids/Offers by the bidders	54
3.8	Late Tender bids	54
3.9	Bid Validity Period	54
3.10	Address for Communication.....	54
3.11	Opening of Bids	54
3.12	Clarification of Bids.....	55
3.13	Right to accept any Bid and reject any or all Bids	55
3.14	Non-Conforming bids.....	55
3.15	Confidentiality	56
4	<i>Award of Contract.....</i>	57
4.1	Notification of Award.....	57
4.2	Performance Bank Guarantee	57
4.3	Signing of Contract	57
4.4	Rejection criteria.....	57
4.5	Concessions permissible under statutes	59
4.6	Taxes.....	59
4.7	Audit, Access and Reporting.....	59
4.8	Records and Information.....	60
4.9	Terms of Payment	61
4.10	Right to vary the scope of Work.....	61
4.11	Fraud and corruption	62
4.12	Conflict of Interest.....	63
4.13	Subcontracting	63
5	<i>Annexure 1 – Formats for Pre-Qualification Bid</i>	64
5.1	Indicative Check-list for the Documents to be included in the Pre-Qualification Bid....	64
5.2	Pre-Qualification Bid Cover Letter	66
5.3	Particulars of the bidders (required for Sole/Lead Bidder and all Consortium Members).....	68
5.4	Format for Power of Attorney for signing the Bid	70
5.5	Declaration of Non-Blacklisting.....	72
5.6	No Deviation Certificate	74
5.7	Total Responsibility Certificate	75
5.8	Self-certificate for Project execution experience (In Bidding Entity's Letter Head)	76
6	<i>Annexure 2 – Formats of Technical Bid.....</i>	77
6.1	General Instructions for the Technical Bid	77
6.2	Technical Bid Checklist	79
6.3	Technical Bid Covering Letter.....	80
6.4	Curriculum Vitae (CV) of Team Members.....	82
6.5	Credential Summary	84
6.6	Bidder's Experience- Client Citations	85
6.7	Project Plan	86
6.8	Manpower Plan	86
6.9	Format for sharing details of the Resources/Personnel to be deployed.....	88
6.10	Format for specifying Compliance to the benchmark / minimum Specifications	89
6.11	Format for Authorization Letters from OEMs.....	90
6.12	Anti-Collusion Certificate.....	91
6.13	Overview of Proposed Solution	92
6.14	Proposed Bill of Material	93

6.15	Details of additional components mentioned as “Others” in the BoQ.....	106
7	<i>Annexure 3 – Formats of Price Bid.....</i>	<i>107</i>
7.1	Price Bid - Format 1	107
7.2	Price Bid - Format 2 – Unit Rates.....	109
7.3	General instructions	133
8	<i>Annexure 4 -Format for EMD</i>	<i>134</i>
9	<i>Annexure 5- Performance Bank Guarantee.....</i>	<i>136</i>
10	<i>Annexure 6- Non-Disclosure Agreement.....</i>	<i>138</i>
11	<i>Annexure 7- Format of Agreement between Bidder and their Parent Company / Subsidiary / Sister Concern Company (As the case may be).....</i>	<i>141</i>
12	<i>Annexure 8- Format of Parent Company / subsidiary / Sister Concern Company Guarantee (As the case may be).....</i>	<i>143</i>
13	<i>Annexure 9 - Consortium Agreement</i>	<i>146</i>
14	<i>Annexure 11 - Format for Power of Attorney for Lead bidder of Consortium..</i>	<i>150</i>

Disclaimer

The information contained in this Request for Proposal document ("**RFP**") whether subsequently provided to the bidders, ("**Bidder/s**") verbally or in documentary form by Ludhiana Smart City Limited (henceforth referred to as "**LSCL**" in this document) or any of its employees or advisors, is provided to Bidders on the terms and conditions set out in this Tender document and any other terms and conditions subject to which such information is provided.

This RFP is not an agreement and is not an offer or invitation to any party. The purpose of this RFP is to provide the Bidders or any other person with information to assist the formulation of their financial offers ("**Bid**"). This RFP includes statements, which reflect various assumptions and assessments arrived at by LSCL in relation to this scope. This Tender document does not purport to contain all the information each Bidder may require. This Tender document may not be appropriate for all persons, and it is not possible for the Chief Executive Officer, LSCL and their employees or advisors to consider the objectives, technical expertise and particular needs of each Bidder. The assumptions, assessments, statements and information contained in the Bid documents, may not be complete, accurate, adequate or correct. Each Bidder must therefore conduct its own analysis of the information contained in this RFP and to seek its own professional advice from appropriate sources.

Information provided in this Tender document to the Bidder is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. LSCL accepts no responsibility for the accuracy or otherwise for any interpretation of opinion on law expressed herein.

LSCL and their employees and advisors make no representation or warranty and shall incur no liability to any person, including the Bidder under law, statute, rules or regulations or tort, the principles of restitution or unjust enrichment or otherwise for any loss, cost, expense or damage which may arise from or be incurred or suffered on account of anything contained in this RFP or otherwise, including the accuracy, reliability or completeness of the RFP, and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP or arising in any way in this Selection Process. LSCL also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder upon the statements contained in this RFP. LSCL may in its absolute discretion, but without being under any obligation to do so, can amend or supplement the information in this RFP.

The issue of this Tender document does not imply that LSCL is bound to select a Bidder or to appoint the Selected Bidder (as defined hereinafter), for implementation and LSCL reserves the right to reject all or any of the Bidders or Bids without assigning any reason whatsoever.

The Bidder shall bear all its costs associated with or relating to the preparation and submission of its Bid including but not limited to preparation, copying, postage, delivery fees, expenses associated with any Proof of Concept (PoC), demonstrations or presentations which may be required by LSCL or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the Bidder and LSCL shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation for submission of the Bid, regardless of the conduct or outcome of the Selection process.

Important Dates

S. No.	Activity	Deadline
1	Release of RFP	06/12/2018
2	Last date of receipt of queries on RFP	18/12/2018 17:00:00
3	Pre-bid Meeting date	20/12/2018 11:00:00
4	Last date for submission of Bids	28/12/2018 17:00:00
5	Date of opening of Technical bids	31/12/2018 15:00:00
6	Date of opening of Commercial bids	To be notified later

Glossary

Abbreviation	Description
LSCL	Ludhiana Smart City Limited
BoM	Bill of Material
CAPEX	Capital Expenditure
CB	Capacity Building
CCC	Command and Control Center
CCTV	Closed Circuit Television
DC	Data Center
DR	Disaster Recovery
EMD	Earnest Deposit Money
EMS	Enterprise Management System
GIS	Geographic Information System
GPRS	General Packet Radio Service
GPS	Global Positioning System
GSM	Global System for Mobile Communications
HD	High Definition
HDPE	High Density Polyethylene
ICCC	Integrated Command & Control Center
ICT	Information and Communication Technology
IEC	Information, Education and Communication
INR	Indian Rupee
IP	Internet Protocol
IR	Infra-Red
ISP	Internet Service Provider
KPI	Key Performance Indicator
KVM	Keyboard, Video display unit and Mouse unit
LAN	Local Area Network
LED	Light Emitting Diode
LOI	Letter of Intent
LOA	Letter of Award
MIS	Management Information System
MoU	Memorandum Of Understanding
MPLS	Multi-Protocol Label Switching
NSP	Network Service Provider

Abbreviation	Description
OEM	Original Equipment Manufacturer
OPEX	Operating Expenditure
O&M	Operation and Maintenance
PMO	Project Management Office
PoC	Proof of Concept / Pilot Demonstration
PTZ	Pan Tilt Zoom
RLVD	Red Light Violation detection
RFP	Request for Proposal
ROW	Right of Way
MSI	Master Systems Integrator
SLA	Service Level Agreement
TPA	Third Party Auditor
UAT	User Acceptance Testing
UPS	Uninterrupted Power Supply
VMS	Video Management System
VTs	Vehicle Tracking System

Definitions

#	Term	Definition
1.	Agreement/Contract	The Agreement entered between Authority and the Master Systems Integrator including all attachments, schedules, annexure thereto and all documents incorporated by reference therein and all amendments, corrigendum /corrigenda, changes thereto
2.	Authority	The use of term Authority in the RFP means “Ludhiana Smart City Limited” board/committee
3.	Bidder	The use of the term “Bidder” in the RFP means the Single Service Provider / firm or the Lead Member of the consortium of firms not exceeding two who participate in the bidding process.
4.	Bid/Proposal	Offer by the Bidder to fulfil the requirement of the Client/Authority under the RFP/Contract for an agreed price. It shall be a comprehensive technical and commercial response to the RFP
5.	Breach	A breach by Bidder of any of its obligations under this RFP.
6.	Client	Refers to Ludhiana Smart City Limited (LSCL)
7.	Confidential Information	All information including Departmental data (whether in written, oral, electronic or other Format) which relates to the technical, financial and business affairs, dealers, suppliers, products, developments, operations, processes, data, trade secrets, design rights, know-how, plans, budgets and personnel of each department and its affiliates which is disclosed to or otherwise learned by the other Party in the course of or in connection with this RFP (including without limitation such information received during negotiations, location visits and meetings in connection with this RFP);
8.	Consortium	<p>The consortium consist of multiple members (not more than 3 parties including the lead bidder) entering into a Consortium Agreement for a common objective of satisfying the Authority’s requirements & represented by Lead Member of the consortium.</p> <p>Lead Bidder: should have at-least 51% percentage participation Second Party: should have at least 20% percentage participation Third Party: should have at least 20% percentage participation with a total participation of 100%.</p>

#	Term	Definition
9.	Control	In relation to any business entity, the power of a person to secure a) by means of the holding of shares or the possession of voting power in or in relation to that or any other business entity, or b) by virtue of any powers conferred by the articles of association or other document regulating that or any other business entity, that the affairs of the first mentioned business entity are conducted in accordance with that person's wishes and in relation to a partnership, means the right to a share of more than one half of the assets, or of more than one half of the income, of the partnership;
10.	Deliverables	Products, infrastructure and services agreed to be delivered by the Bidder in pursuance of the agreement as defined more elaborately in the RFP Implementation and the Maintenance phases and includes all documents related to the user manual, technical manual, design, process and operating manuals, service mechanisms, policies and guidelines (such as security related, data migration related), inter alia payment and/or process related etc., source code and all its modifications;
11.	e-procurement Portal	Means the electronic tendering system of the Authority
12.	Procurement	The date of commencement of Operations and Maintenance phase after the successful completion of Implementation Phase (FAT and acceptance of the overall solution by the Authority)
13.	Intellectual Property Rights	Intellectual property rights include patents, copyright, industrial design rights, trademarks, plant variety rights, trade dress, geographical indications
14.	Month	The Month shall mean calendar month & Week shall mean calendar week
15.	Operating Cost	Operating Cost is the cost incurred by Authority after the Go-Live of the project
16.	Parties	Authority and Bidder for the purposes of this RFP and " Party " shall be interpreted accordingly.
17.	Performance Bank Guarantee	Unconditional guarantee provided by the Bidder from a Nationalized/Scheduled Commercial Bank in favour of the Authority for 10% of the Total Project Cost.
18.	Project Implementation	Project Implementation as per the testing standards and acceptance criteria prescribed by Authority or its nominated agencies;

#	Term	Definition
19.	Request for Proposal/ RFP Document	Written solicitation that conveys to the Bidder, requirements for products/ services that the Authority intends to buy and implement
20.	Service Level	The level of service and other performance criteria which will apply to the Services delivered by the Bidder;
21.	SLA	Performance and Maintenance SLA executed as part of Master Service Agreement; as specified in Volume III
22.	Software	Software designed, developed / customized, tested and deployed by the Bidder for the purposes of the Project and includes the source code (in case of Bespoke development) along with associated documentation, which is the work product of the development efforts involved in the Project and the improvements and enhancements effected during the term of the Project, but does not include the third party software products (including the COTS products used for the product), proprietary software components and tools deployed by the Bidder;
23.	Successful Bidder	The bidder who is qualified & successful in the bidding process and is given the award of Contract and will be referred to as Master Systems Integrator (MSI)
24.	Operations and Maintenance	Operations and Maintenance services for the software, hardware and other IT and Non-IT infrastructure installed as part of the project after Phase wise Go-Live and for a period of 4 years from the date of phase wise Go-Live. Warranty period of the product supplied under project i.e. hardware, software, IT/Non-IT etc., will be considered after phase wise Go-Live only.

1. Introduction

Smart City Mission was launched by Hon'ble Prime Minister Shri Narendra Modi on 25th June, 2015. Ludhiana city was selected among Top 20 cities to be developed as smart city in India due to various achievements, initiatives and all-inclusive approach. Accordingly Ludhiana City had submitted "Smart City Proposal" (SCP) for Ludhiana City to Ministry of Urban Development, Government of India with required consent of Government of Punjab and statutory authority of Ludhiana Municipal Corporation.

Based on Citizens Poll for Pan City initiatives, ICT based Integrated Command & Control Center (ICCC) as the important smart solutions finalized in Smart City Proposal will be implemented in entire area of Ludhiana city.

The Client- Ludhiana Smart City Limited (LSCL) now intends to select a Master Systems Integrator for implementation of Integrated Command & Control Center (ICCC) in Ludhiana City.

1.1 About The Ludhiana Smart City Limited (LSCL)

As per the GoI guidelines, Ludhiana Municipal Corporation has formed a separate Special Purpose Vehicle (SPV) as Ludhiana Smart City Limited (LSCL) for the implementation of Smart City Projects under the smart city mission for the city of Ludhiana. This SPV shall carry end-to-end responsibility for vendor selection, implementation and operationalization of various smart city projects.

1.2 Introduction to Ludhiana Smart City Project

The city of Ludhiana has emerged as Punjab's core city as an important center of trade and commerce in Northern India. Ludhiana city which is district headquarters is the hub of industry in Punjab. Ludhiana is the biggest city of the state, it has eight tehsils, seven sub-tehsils and twelve development blocks. Ludhiana has been selected among the top 20 smart cities in India for which it receives funding from Ministry of Urban Development (MoUD) for projects under its smart city proposal. Ludhiana smart city proposal includes several Pan City and Area Based Development initiatives with a focus on both infrastructure and ICT advancements in the city and at strategic locations. Most of the ICT initiatives proposed and being implemented by Ludhiana city have been identified with a predominant objective to improve public safety and surveillance, traffic management, public services quality, emergency response and real time tracking of services.

In order to meet the deficiencies of the present system, namely, lack of integrated systems, inefficient work procedures, lack of up-to-date and accurate databases, lack of data sharing, etc., ICT initiatives such as the Integrated Command and Control Centre along with smart features with specific focus on real time tracking of services, smart lighting, and many more have been proposed by the city. This document covers detail scope, specifications of the proposed for ICT initiatives of Integrated Command and Control Center (ICCC) and Project Management Strategy. The Ludhiana Smart City Limited (LSCL) under their PAN City Projects, have envisaged implementing Integrated Command & Control Center (ICCC) across Ludhiana city. LSCL plans to utilize information technology to modernize key functions of city operations including traffic management, traffic control, traffic law enforcement, security and safety, e-governance,

municipal operations, information dissemination etc. to build well-informed, connected, smart and smooth city wide operations for citizens of the city.

The key objective of this project is to establish a collaborative framework where inputs from different functional departments such as transport, water, fire, police, meteorology, e-governance, municipal operations, pollution control, etc. can be assimilated and analyzed on a single platform; consequently resulting in aggregated city level information.

ICCC enables collation of information and collaborative monitoring, thus helping in the analysis of data for quicker decision making. Intelligent operations capability ensures integrated data visualization, real-time collaboration and deep analytics that can help different stakeholders prepare for exigencies, coordinate and manage response efforts, and enhance the ongoing efficiency of city operations. The interface at ICCC gives a real-time and unified view of operations. Cities can rapidly share information across agency lines to accelerate problem response and improve project coordination. Furthermore, the ICCC will help in anticipating the challenges and minimizing the impact of disruptions.

Following are the intangibles that are expected to be addressed by this intervention as per the scope defined at later stage in the RFP:

1. Enable real-time monitoring of the various facets of management of Ludhiana Smart City i.e. Security, Traffic and City Utilities.
2. Increased Traffic Efficiency: Reduction in stoppage time, optimized cycle times of intersection to regulate and maintain free flow of traffic to enhance the efficiency of the road & transport infrastructure.
3. Increased Travel Speed: Intelligent Signals will reduce vehicle congestion on roads based on optimized signaling and thus increase the travel speed.
4. Increase Operational Efficiency: City Authorities intends to spend more time on the public facing functions. Thus Information technology solutions should help in reducing the repetitive paperwork/records and making the back-office functions more efficient.
5. Improve Traffic Services: The traffic services to the public can be improved through the user friendly presentation of the various traffic information in real time.
6. Safety Improvement: The real-time traffic monitoring and intelligent traffic control can prevent accidents by recognizing and thus responding to the potentially dangerous situation in advance.
7. Higher Productivity: Achieving improvement in the productivity, logistics and other economic activities by obtaining the precise-real time information on transport due to the availability of data on traffic flow in key areas of the city.
8. Real Time Information & Response: The real-time information at the ICCC shall enable the operator to take necessary actions based on the real time information and execute the required responses such as sending an emergency vehicle to the spot, arranging alternate route to VIP convoys, diverting the traffic to different routes etc. It shall be possible to track a particular event using the cameras installed at the traffic junction.
9. Creating awareness and Education of public: Through sign boards, awareness on road traffic rules and safe driving precautions shall be imparted to road users.

10. Enforcement: Effective enforcement of traffic violation, checking and monitoring shall reduce the traffic related offences like Red Light violation, Stop line violations etc.
11. Reduction in Social Cost: The overall social cost can be saved by easing the traffic congestion by utilizing the optimally allocated real time traffic information
12. Create a platform for sharing traffic information across the city: There is a critical need to create a platform for sharing traffic related information among traffic police and citizens in order to increase the effectiveness of Intelligent Traffic Management System.
13. Pollution Control: To reduce pollution with a cleaner Air in the city due to improved traffic
14. Security and Safety: Live Surveillance through a network of CCTV Cameras will help to identify, apprehend and prosecute offenders and provide live alerts in case of events and incidents.
15. Effective & Preventive Policing: The technological interventions proposed for traffic regulation enforcement and CCTV coverage will enable quick tapping of issues in the form of data and maps such as crime mapping, blind spots, accidental zones, peak hour traffic count, average travel time, etc. This will enable the police department to reduce crime and do preventive policing.
16. Reduce Congestion and Emissions: Smart parking enables better and real time monitoring and managing of available parking space, and guides residents and visitors to nearby available parking facility resulting reduction of emission of CO2 and other pollutants. Thus it creates a better environment.
17. Provide capability to respond in a unified manner to situations on ground (both day to day and emergency situations) by creating a common operational picture for the relevant stakeholder
18. Provide and manage touch points from all concerned stakeholders during the lifecycle of various incidents
19. Define and manage the Key Performance Indicators (KPIs) for various systems deployed under enhancement and operational aspects of the City Management
20. Provide capability to conduct analysis for continuous improvement of city operations
21. Better management of utilities and quantification of services
22. Disaster Management and Emergency Response System
23. Asset Management
24. Provide and manage system for transit management
25. Generate Alerts over different modes of communication related to core systems deployed for objectives of smart city project

Ludhiana Smart City Limited envisages to create an Integrated Command and Control Centre with integration to existing sub systems and deployment of various other sub –systems.

- a) Integration with existing control centers and other sub systems in the city (with provision for future scalability)

- Geographical Information System (GIS)
- Safe City Project
- Smart Lighting,
- Smart Governance,
- City Bus System / VTS
- Solid Waste Management,
- Water SCADA
- Power SCADA
- City Surveillance and smart traffic (RLVD and ANPR),
- Smart Parking,
- Sewerage,
- Health,
- Education
- Unified operations through integration of urban functions offered by the city administration

b) Ludhiana Smart City Project also envisages deployment of following components to achieve the objectives:

- Deployment of various sensors (environment and weather sensors) throughout the city to improve situational awareness
- Deployment of Public Address (PA) System & Panic Button with Emergency Call Box to enhance public awareness and emergency response.
- Deployment of Various Cameras in municipal limits to improve various civic services like Solid Waste Management, Tahbazari Violations , SMART On Street Parking
- Deployment of Variable Messages Signboards (VMS) for Public Information Display.

1.3 Fact Sheet

S. No.	Item	Description
1.	Name of the Assignment	Request for Proposal for Selection of Master Systems Integrator (MSI) for Implementation of Integrated Command & Control Center (ICCC) and Smart Components in Ludhiana City
2.	Method of Selection	The Selection of MSI shall be through two stage Least Cost System (LCS) with the 1 st Stage consisting of Prequalification and Technical Criteria evaluation. The minimum qualifying marks for 1 st stage would be 70 marks out of 100 marks. 2 nd stage would be evaluation of Financial Bid and the Bidder with L1 Bid will be selected based on Total Price (Capex Price + Opex Price)

S. No.	Item	Description
3.	Availability Of RFP Documents	https://eproc.punjab.gov.in
4.	RFP date	06/12/2018
5.	RFP Number	
6.	Last date and time for submission of Proposal (Proposal Due Date)	28/12/2018; 1700Hrs , On-line on e-procurement Portal: https://eproc.punjab.gov.in
7.	Date, time and Venue of Pre-Bid Meeting	20/12/2018 1100 hrs Venue : 5 th Floor, Conference Hall, Punjab Municipal Infrastructure Development Company (PMIDC), Punjab Municipal Bhawan, 3, Dakshin Marg, Sector 35A, Chandigarh.
8.	Last date and time for receiving Pre bid queries/clarifications	18/12/2018; 1700 hrs
9.	Date , time and venue of opening of Pre-qualification and technical proposals on e-procurement platform	31/12/2018; 1500 Hrs Venue : 2nd Floor, Office of CEO, Ludhiana Municipal Corporation Office-Zone A, Mata Rani Chowk, Ludhiana, Punjab
10.	Date , time and Venue of opening of financial proposal	To be intimated to the technically qualified bidders at a later date
11.	Bid Document Fee (Non-refundable)	Indian Rupees 25,000 (Indian Rupees Twenty Five Thousand only) inclusive of Taxes, in form of demand Draft or Banker's Cheque
12.	Bid Security / EMD (Refundable)	INR 1,20,00,000/- Crore (INR One Crore Twenty Lakhs Only)
13.	Performance Bank Guarantee	10% of Total Contract Value
14.	For any enquiries and clarifications, please contact:	2nd Floor, Office of CEO, Ludhiana Municipal Corporation Office-Zone A, Mata Rani Chowk, Ludhiana, Punjab Email: lsclceo@gmail.com
15.	Validity of the Proposal	Bidder proposals shall remain valid for a period of 180 days from last date of submission of Bid.
16.	Currency	Currency in which the Bidders may quote the price and will receive payment is Indian Rupees only.

Important Note: Proposals/Bids submitted without Bid Document fee and Bid Security shall summarily be rejected.

2. Instructions to the Bidder

2.1 Instructions for Online Bid submission

1. Instructions to the Bidders to submit the bids online through the Punjab Public Procurement Portal for e Procurement at <https://eproc.punjab.gov.in>
2. Possession of valid Digital Signature Certificate (DSC) and enrollment/registration of the contractors/bidders on the e-Procurement/e-tender portal are prerequisite for e-tendering.
3. Bidder should register for the enrollment in the e-Procurement site using the “Online Bidder Enrollment” option available on the home page. Portal enrollment is generally free of charge. During enrollment/registration, the bidders should provide only valid and true information including valid email id. All the correspondence shall be made directly with the contractors/bidders through email id as registered.
4. Bidder need to login to the site through their user ID/ password chosen during enrollment/registration.
5. Then the Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by SIFY/TCS/nCode/eMudra or any other Certifying Authority recognized by Controller of Certifying Authorities (CCA) India on eToken/SmartCard, should be registered
6. The registered DSC only should be used by the bidder in the transactions and should ensure safety of the same.
7. Contractor/Bidder may go through the tenders published on the site and download the tender documents/schedules for the tenders.
8. After downloading / getting the tender document/schedules, the Bidder should go through them carefully and then submit the documents as required, otherwise bid will be rejected.
9. Any clarifications may be sought online through the tender site, through the contact details or during pre-bid meeting if any. Bidder should take into account the corrigendum if any published before submitting the bids online.
10. Bidder may log in to the site through the secured login by the user id/ password chosen during enrolment/registration and then by submitting the password of the e-Token/Smartcard to access DSC.
11. Bidder may select the tender in which he/she is interested in by using the search option and then move it to the ‘my tenders’ folder.
 - a. From my tender folder, he may select the tender to view all the details uploaded there.
 - b. It shall be deemed that the bidder has read and understood all the terms and conditions before submitting the offer. Bidder should go through the tender schedules carefully and upload the documents as asked; otherwise, the incomplete bid shall stand rejected

- c. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/schedule and ordinarily it shall be in PDF/xls/rar/jpg/dwf formats. If there is more than one document, all may be clubbed together and provided in the requested format. Bidders Bid documents may be scanned with 100 dpi with black and white option. It is advisable that each document to be uploaded through online for the tenders should be less than 2 MB. If any document is more than 2MB, it can be reduced through zip/rar and the same if permitted may be uploaded. The file size being less than 1 MB the transaction uploading time will be very fast.
- d. The Bidders can update well in advance, the documents such as certificates, annual report details etc., and these can be selected as per tender requirements and then send along with bid documents during bid submission. This will facilitate the bid submission process faster by reducing upload time of bids.
- e. Bidder should submit the Tender Fee/ EMD as specified in the tender. The hard copy should be posted/couriered/given in person to the Tender Inviting Authority, within bid submission due date and time as indicated in the tender. Scanned copy of the instrument should be uploaded as part of the offer.
- f. While submitting the bids online, the bidder shall read the terms and conditions and may accept the same to proceed further to submit the bid packets.
- g. The bidder has to select the payment option as offline to pay the Tender FEE/ EMD as applicable and enter details of the instruments.
- h. The details of the DD/any other accepted instrument, physically delivered, should tally with the details available in the scanned copy and the data entered during bid submission time, otherwise submitted bid shall not be acceptable or liable for rejection.
- i. The bidder has to digitally sign and upload the required bid documents one by one as indicated. Very act of using DSC for downloading the bids and uploading their offers shall be deemed to be a confirmation that they have read, understood and agreed with all clauses of the bid document including General conditions of contract without any exception.
- j. The bidder has to upload the relevant files required as indicated in the cover content. In case of any irrelevant files, the bid may be rejected.
- k. If the price bid format is provided in a spread sheet file like BoQ_XXXX.xls, the rates offered should be entered in the allotted space only and uploaded after filling the relevant columns. The Priced-bid/BOQ template shall not be modified / replaced by the bidder; else the bid submitted is liable to be rejected for the tender.
- l. The bidders are advised to submit the bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission due date and time (as per Server System Clock). The TIA shall not be held responsible for any delay or the difficulties faced during the submission of bids online by the bidders.
- m. After the bid submission (i.e. after Clicking “Freeze Bid Submission” in the portal), the acknowledgement number indicated by the system should be printed by the bidder and kept as a record of evidence for online submission of bid for the particular tender and also be used as entry pass to participate in the bid opening.

- n. The time settings fixed in the server side and displayed at the top of the tender site, shall remain valid for all actions of requesting, bid submission, bid opening etc., in the e-Tender system. The bidders should follow such time during bid submission.
- o. All the data being entered by the bidders would be encrypted using Public Key Infrastructure (PKI) encryption techniques to ensure the secrecy of the data. The data entered is not retrievable by unauthorized persons during the bid submission and until the time of bid opening by any person
- p. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers' public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- q. The confidentiality of the bids is maintained with the use of Secured Socket Layer (SSL) 128 bit encryption technology. Data storage encryption of sensitive fields is done.
- r. The bidder should logout of the tendering system using the normal logout option available at the top right hand corner and not by selecting the (X) exit option in the browser.
- s. For any queries regarding e-Tendering process, the bidders may contact at address as provided in the tender document. For any further queries, the bidders are advised to send a mail to lsclceo@gmail.com

2.2 General

- 1. While every effort has been made to provide comprehensive and accurate background information, requirements and envisaged solution(s) specifications, Bidders must form their own conclusions about the solution(s) needed to meet the Authority's requirements. Bidders and recipients of this RFP may wish to consult their own legal advisers in relation to this RFP.
- 2. All information supplied by Bidders as part of their bids in response to this RFP, may be treated as contractually binding on the Bidders, on successful award of the project by the Authority on the basis of this RFP.
- 3. No commitment of any kind, contractual or otherwise shall exist unless and until a formal written contract has been executed by or on behalf of Authority. Any notification of preferred bidder status by Authority shall not give rise to any enforceable rights by the Bidder. Authority may cancel this public procurement at any time prior to a formal written contract being executed by or on behalf of Authority.
- 4. Bids shall be received by the Authority on the e-Procurement portal <https://eproc.punjab.gov.in> before the time and date specified in the schedule of the tender notice. In the event of the specified date for the submission of tender being declared a public holiday by the Government of Punjab, the offers will be received up to the appointed time on the next working day. The Authority may, at its discretion, extend this deadline for submission of offers by issuing corrigendum and uploading the same on e-Procurement portal.

5. Telex, cable or facsimile offers will be rejected.

2.3 Eligible Bidders

Bids may be submitted by either of the following categories of bidders only:

The Bidder can be either a Single Master Systems Integrator (MSI) or a Consortium of companies/ corporations as described below.

1. Sole Bidder

The Sole Bidder must be a Master systems Integrator (MSI) company which has the capabilities to deliver the entire scope as mentioned in the RFP. The Sole Bidder cannot bid as a part of any other consortium bid under this RFP.

2. Consortium of Firms

Bids can be submitted by a consortium of firms. A consortium should not consist of more than 2 parties (including the Lead Bidder). One of the Firms would be designated as a "Lead Bidder". The Lead bidder and consortium partners shall be jointly and severally liable for complete scope and ensuring the delivery of products and services mentioned in all volumes/Parts of this RFP. The list of Consortium Members needs to be declared in the bid which cannot be changed by the bidder later. Any change in the consortium member will need to be approved by Authority.

1. A Bidder applying individually or as consortium member shall not be entitled to submit another application either individually or as a member of any other consortium, as the case may be.
2. Consortium members must provide a Joint Venture Agreement (JVA) covering above points and showing their intention to enter into such an Agreement at the time of Award of Contract.
3. A Bidding Consortium is required to nominate a Prime Member. The formation of the consortium including identification of Prime member and role and responsibilities of each member shall be supported by Power of Attorney signed by all the members on a stamp paper of INR 100/-.
4. The successful bidder (SI) shall require to enter into agreement with all member of Consortium Members specifying following points in the Agreement. These points shall also be captured in MoU
 - i. Identity Prime Member and Power of Attorney in favor of Prime Member. Prime Member (Lead Bidder) should have at-least 51% percentage participation and the other Consortium Members should have minimum of at-least 20% participation.
 - ii. Roles and responsibilities of each consortium partner, the identification of the lead partner, and providing for joint and several liability for each partner.
 - iii. All consortium members would be available throughout the Contract Period.
 - iv. Each member of the Consortium shall be jointly and severally liable for the due implementation, operation and maintenance of the Project.
 - v. The role and responsibility of any member must be commensurate with the technical/financial capabilities that such member is contributing towards meeting

the qualification criteria. Each consortium member is liable to contribute resources in terms of knowledge, skills and trained manpower commensurate with its role and responsibilities during the Contract Period.

- vi. The Consortium Agreement must also state that the period of the Agreement would coincide with the Contract period. Consortium must continue to be in existence during the period of the contract and that any change will be subject to approval of the Authority (LSCL) only.
- vii. The final contract between the consortium members (The Consortium Contract) would be available for legal vetting and open to suggestions by the LSCL. LSCL will suggest binding corrections if it finds that such contract does not meet its requirements and interests as per the RFP in letter and spirit.
- viii. The Agreement should be on stamp paper and notarized. The signatories must be duly authorized.
- ix. Any modification in roles and responsibilities between consortium members during Contract Period shall be allowed only after approval from LSCL. Any changes and deviation of roles and responsibilities of consortium members during the execution, operation and maintenance of this Project without prior approval of Authority shall be viewed seriously by the LSCL as it can affect an important public service. Such unilateral action by the MSI shall entitle LSCL to take appropriate action including considering it an Event of Default under this Contract leading to consequences including termination with appropriate notice.
- x. Any Dispute arising during Contract Period between the Consortium Member shall be resolved amicably without adversely impacting Project Implementation and Operation. If in LSCL's opinion, Dispute between Consortium members adversely impacting implementation and operation of the Project then Authority may in its sole discretion in the interest of the Project (a) Terminate the Contract after due process and/or (2) Provide a binding solution.
- xi. In case LSCL Intends to proceed for Termination on account of MSI Event of Defect and /or unresolved disputes between the Consortium Members, both the Consortium Members shall be jointly and severally liable for Implementation, Operation and Maintenance of project at Agreed prices and payment terms specified in this RFP till Authority or any new agency appointed by it takes over the Project
- xii. LSCL reserves the right to reject the Bid in case of change in the constitution of the consortium after the submission of Bid and before the execution of the Agreement

2.4 Proposal Preparation Cost

1. The bidder is responsible for all costs incurred in connection with participation in this process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of proposal, in providing any additional information required by LSCL to facilitate the evaluation process, and in negotiating a definitive Contract or all such activities related to the bid process. The department will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

2. This Bid Document does not commit the LSCL to award a contract or to engage in negotiations. Further, no reimbursable cost may be incurred in anticipation of award. All materials submitted by the Bidder shall become the property of LSCL and may be returned at its sole discretion.

2.5 Pre-Bid Meeting

- a) A prospective Bidder requiring any clarification on the RFP Document may submit his queries, via email, to the following e-mail id on or before 18/12/2018 till 1700 hrs Email Id for submission of queries: lsclceo@gmail.com
- b) LSCL will host a Pre-Bid Meeting for queries (if any) by the prospective bidders. The representatives of the bidders may attend the pre-bid meeting at their own cost. The purpose of the pre-bid meeting is to provide a forum to the bidders to clarify their doubts / seek clarification or additional information necessary for them to submit their bid. Date, Time and Venue for the Pre-Bid Meeting :
- Pre-Bid conference will held on 20/12/2018 at 1100 Hrs
 - Venue for Pre-Bid conference: 5th Floor, Conference Hall, Punjab Municipal Infrastructure Development Company (PMIDC), Punjab Municipal Bhawan, 3, Dakshin Marg, Sector 35A, Chandigarh.
 - The queries should necessarily be submitted in the following format:

Request for Clarification			
Name and Address of the Organization submitting request		Name and Position of Person submitting request	Contact Details of the Organization / Authorized Representative
			Tel: Mobile: Fax: Email:
Sr. No	RFP Document Reference (Volume, Section No., Page No.)	Content of the RFP requiring clarification	Clarification Sought
1			
2			

Queries submitted post the above mentioned deadline or which do not adhere to the above mentioned format may not be responded to. All the responses to the queries (clarifications / corrigendum) shall be made available on the website: <https://eproc.punjab.gov.in>

- At any time before the deadline for submission of bids, the LSCL, may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the RFP Document by an addendum.
- The bidders are advised to visit <https://eproc.punjab.gov.in> on regular basis for checking necessary updates. LSCL also reserves the rights to amend the dates mentioned in this RFP for bid process.

3. In order to afford prospective Bidders reasonable time in which to take the amendment into account in preparing their bids, the LSCL may, at its discretion, extend the last date for the receipt of Bids.

2.6 Conflict of Interest

1. A "Conflict of Interest" is any situation that might cause an impartial observer to reasonably question whether Master System Integrator actions are influenced by considerations of your firm's interest at the cost of Government. The Master System Integrator agrees that it shall hold the LSCL's interest paramount, without any consideration for future work, and strictly avoid any Conflict of Interest with other assignments of a similar nature. In the event the Master System Integrator foresees a Conflict of Interest, the Master System Integrator shall notify LSCL forthwith and seek its approval prior to entering into any arrangement with a third party which is likely to create a Conflict of Interest.
2. Bidders shall not have a conflict of interest that may affect the Selection Process or the scope (the "Conflict of Interest"). Any Bidder found to have a Conflict of Interest shall be disqualified.
3. LSCL requires that the Bidder provides professional, objective, and impartial advice and at all times hold the LSCL's interests paramount, avoid conflicts with other assignments or its own interests, and act without any consideration for future work.
4. The Master System Integrator shall disclose to LSCL in writing, all actual and potential Conflicts of Interest that exist, arise or may arise (either for the System Integrator or its team) during the term of the Agreement as soon as it becomes aware of such a conflict.

2.7 Compliant Bids/Completeness of Response

1. Bidders are advised to study all instructions, forms, terms, requirements and other information in the RFP documents carefully. Submission of the bid shall be deemed to have been done after careful study and examination of the RFP document with full understanding of its implications.
2. Failure to comply with the requirements of this RFP may render the bid non-compliant and the Bid may be rejected. Bidders must:
 - a) Include all documentation specified in this RFP, in the bid
 - b) Follow the format of this RFP while developing the bid and respond to each element in the order as set out in this RFP
 - c) Comply with all requirements as set out within this RFP

2.8 Right to amendment of the project scope

1. LSCL retains the right amend the scope of work or amend the program for service delivery at any time and without assigning any reason. LSCL makes no commitments, express or implied, that the full scope of work as described in this RFP will be commissioned.
2. The bidder's technical and commercial proposals received in this process may result in LSCL selecting to engage with the bidders' in further discussions, seeking clarifications and negotiations toward execution of a contract including finalization of the scope

elements. The commencement of such negotiations does not, however, signify a commitment by the LSCL to execute a contract or to continue negotiations. LSCL may terminate negotiations at any time without assigning any reason.

2.9 LSCLs rights to terminate the selection process

1. LSCL may terminate the RFP process at any time and without assigning any reason. LSCL makes no commitments, express or implied, that this process will result in a business transaction with anyone.
2. This RFP does not constitute an offer by LSCL.
3. The bidder's participation in this process may result in LSCL selecting the bidder to engage in further discussions and negotiations toward execution of a contract. The commencement of such negotiations does not, however, signify a commitment by the LSCL to execute a contract or to continue negotiations. LSCL may terminate negotiations at any time without assigning any reason.

2.10 Right to Accept/Reject any proposal

1. Notwithstanding anything contained in this RFP, LSCL reserves the right to accept or reject any Proposal and to annul the Selection Process and reject all Proposals, at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons therefore.
2. Besides other conditions and terms highlighted in the RFP Document, bids may be rejected under following circumstances:

a. General rejection criteria

- i. Conditional Bids;
- ii. If the information provided by the Bidder is found to be incorrect / misleading / fraudulent/incomplete at any stage / time during the Tendering Process;
- iii. Any effort on the part of a Bidder to influence the bid evaluation, bid comparison or contract award decisions;
- iv. Bids received after the prescribed time & date for receipt of bids;
- v. Bids without signature of person (s) duly authorized on required pages of the bid;
- vi. Bids without power of attorney/ board resolution or its certified true copy.

b. Pre-Qualification rejection criteria

- i. Bidders not complying with the Eligibility Criteria given in this RFP ;
- ii. Revelation of prices in any form or by any reason before opening the Commercial Bid;
- iii. Failure to furnish all information required by the RFP Document or submission of a Bid not substantially responsive to the RFP Document in every respect;

c. Technical rejection criteria

- i. Technical Bid containing commercial details;

- ii. Revelation of Prices in any form or by any reason before opening the Commercial Bid;
- iii. Failure to furnish all information required by the RFP Document or submission of a Bid not substantially responsive to the RFP Document in every respect;
- iv. Bidders not quoting for the complete scope of work as indicated in the RFP Documents, addendum /corrigendum (if any) and any subsequent information given to the Bidder;
- v. Bidders not complying with the Technical and General Terms and conditions as stated in the RFP Documents;
- vi. The Bidder not confirming unconditional acceptance of full responsibility of providing services in accordance with the scope of work and Service Level Agreements of this RFP;

d. Commercial Rejection Criteria

- i. Incomplete price Bid;
 - ii. Price Bids that do not conform to the RFP's price bid format;
 - iii. Total price quoted by the Bidder does not include all statutory taxes and levies applicable;
 - iv. If there is an arithmetic discrepancy in the commercial Bid calculations the Technical Committee shall rectify the same. If the Bidder does not accept the correction of the errors, its Bid may be rejected.
3. Misrepresentation/ improper response by the Bidder may lead to the disqualification. If the Bidder is the Lead Member of a consortium, then the entire consortium may be disqualified / rejected. If such disqualification / rejection occurs after the Proposals have been opened and the highest ranking Bidder gets disqualified / rejected, then LSCL reserves the right to consider the next best ranked Bidder, or take any other measure as may be deemed fit in the sole discretion of LSCL, including annulment of the Selection Process.

2.11 Bidder to Inform

The Bidder shall be deemed to have carefully examined the Terms & Conditions, Scope, Service Levels, Specifications, and Schedules of this RFP. If bidder has any doubts/clarifications as to the meaning of any portion of the Conditions or the specifications, he shall, before the last date and time for Submission of Pre-Bid Queries, and submit them to Authority in writing in order that such doubt may be removed or clarifications are provided.

2.12 Bid Formats

a) Pre-Qualification Bid Format

#	Documents to be submitted	Format
1.	Pre-Qualification Checklist	As per format mentioned in Section 5.1 of Annexure 1
2.	Bid Cover Letter and Particulars of organizations	As per format mentioned in Section 5.2 of Annexure 1

#	Documents to be submitted	Format
3.	Power of attorney / board resolution to the authorized Signatory of the Bid	As per format mentioned in Section 5.4 of Annexure 1
4.	Consortium agreement (if applicable)	As per format mentioned in Annexure 9
5.	E.M.D. of INR 120,00,000/- (INR One Crore Twenty Lakhs Only)	As per format mentioned in Annexure 4
6.	Performance Bank Guarantee	As per format in Annexure 5
7.	Bid Document fee (Non-refundable)	INR 25,000 (Twenty Five Thousand only)- inclusive of taxes
8.	Particulars of the bidders (As per section 8.3 of Annexure 1)	As per format mentioned in Section 5.3 of Annexure 1
9.	Company Incorporation/Registration certificate	Copy of certificate of Incorporation
10.	Certificate(s) from the statutory auditor/CA towards average annual Turnover of the entity/entities over the last three (3) financial years (FY 2015-16, 2016-17 and 2017-18)	Details of annual turnover with documentary evidence
11.	Certificate(s) from the statutory auditor/CA towards positive net worth for the last three (3) financial years (FY 2015-16, 2016-17 and 2017-18)	Details of net worth with documentary evidence
12.	PAN documents	Copy of PAN documents
13.	GST registration	Copy of GST registration
14.	The Bidder (or any consortium member) shall have successfully executed at least two (2) projects related to implementation of following scope in last 7 years (till years ending 31st March 2018): <ul style="list-style-type: none"> Surveillance system like CCTV surveillance system. The project should have at least 200 cameras. Value of the each project should be minimum of INR 1.5 Crore 	As per format mentioned in Section 6.6 of Annexure 2
15.	The bidder (or any Consortium member) should have experience of setting up or O&M of 2 (two) projects covering Data centre Equipment/ Integrated command and control room /emergency response centre / Security and Surveillance control room/ City wide NOC/Surveillance control room built for Central Government / State Government / Public Sector Units (PSUs) as on 31st March 2018 of value not less than INR 2.5 Crore each. Note: In-house projects for their own corporation executed by the bidder shall not be considered for above purpose	As per format mentioned in Section 6.6 of Annexure 2

#	Documents to be submitted	Format
	Note: In case bidder/prime bidder is a wholly owned subsidiary, the experience of parent company would be considered for eligibility	
16.	<p>The bidder (or any consortium member) shall have successfully executed at least four (4) projects related to integration of at least two (2) different components from the list below with Integrated Command and Control Center in the last seven (7) years</p> <ul style="list-style-type: none"> • City Surveillance System, • Parking System, • Intelligent Solid Waste Management System, • Water & Power SCADA, • Public Address System / ECB, • Smart Governance, • Vehicle Tracking System, • Traffic Signal / Traffic Enforcement System / e-Challan, • Smart Lighting / LED Lights, • Variable Message Displays • Access Control System • Geographical Information System (GIS) 	As per format mentioned in Section 6.6 of Annexure 2
17.	Self-declaration by the Bidder, each member of consortium (if applicable) and their Directors duly signed by the authorized signatory confirming they have not been blacklisted by any Central / State Government Department or Central/State Public Sector Units (PSUs), Government (Central / State / PSU/ World Bank/Asian Development Bank) Organization in India as on the bid submission date in India	As per format mentioned in Section 5.5 of Annexure 1
18.	Undertaking to open Office in Ludhiana	<p>Address of the office in Ludhiana</p> <p>Or</p> <p>Undertaking from authorized signatory to open office with GST registration in Ludhiana within 30 days from contract signing.</p>
19.	<p>The Sole Bidder or any of Consortium members, should jointly possess any three (3) of the below certifications which are valid at the time of bidding:</p> <p>a) ISO 9001:2008/ ISO 9001:2015 for Quality Management System</p> <p>b) ISO 14001:2015 for Environmental Management System</p> <p>c) ISO 20000:2011 for IT Service Management</p> <p>d) ISO 27001:2013 for Information Security</p>	<p>The Sole Bidder or any of Consortium members:</p> <p>Copies of valid certificates</p> <p>AND</p> <p>For CMMi Level 3 or above</p> <p>Copies of valid certificates</p> <p>In case the Bidder is in the process of re-certification of CMMi Level 3 or above; then the copy of expired certificate and present assessment</p>

#	Documents to be submitted	Format
	<p>Management System</p> <p>v. CMMi Level 3 or above for Capability Maturity Model Integration</p> <p>Note: Each member of the Consortium should possess minimum one (1) of the above valid certification</p>	certificate from duly authorised CMMi Auditor to be enclosed

b) Technical Bid Format

#	Checklist Item	Format
1.	Technical Bid Checklist	As per format mentioned in Section 6.2 of Annexure 2
2.	Technical Bid Covering Letter	As per format mentioned in Section 6.3 of Annexure 2
3.	Proposed CVs	As per format mentioned in Section 6.4 of Annexure 2
4.	Credential summary	As per format mentioned in Section 6.5 of Annexure 2
5.	Project Citations and Self-certifications, as applicable	As per format mentioned in Section 6.6 of Annexure 2
6.	Project plan and manpower plan	As per format mentioned in Section 6.7, 6.8 & 6.9 of Annexure 2
7.	Compliance to benchmark/minimum specifications	As per format mentioned in Section 6.10 of Annexure 2
8.	Manufacturers'/Producers' Authorization Form Anti-Collusion certificate	As per format mentioned in Section 6.12 of Annexure 2
9.	Detailed proposed solution	As per format mentioned in Section 6.13 of Annexure 2
10.	Proposed Bill of Material	As per format mentioned in Section 6.14
11.	Non-disclosure agreement	As per format mentioned in Section Annexure 6

c) Commercial Bid Format

The Bidder must submit the Commercial Bid in the formats specified in Section 7 of Annexure 3

S. No.	Parameter	Format
1	Total Price Summary	As per format mentioned in Section 7.1
2	Price component for CAPEX	As per format mentioned in

S. No.	Parameter	Format
		Section 7.2.1
3	Price component for OPEX	As per format mentioned in Section 7.2.2

2.13 Language of the Bid

The bids prepared by the Bidder and all subsequent correspondence and documents relating to the bids exchanged by the Bidder and client shall be written in English language. Any printed literature furnished by the Bidder, written in another language, shall be accompanied by an accurate English translation, in which case, for purposes of interpretation of the Bid, the English translation shall govern.

2.14 Hand written documents, Erasures or Alterations

The offers containing erasures or alterations will not be considered. There should be no hand-written material, corrections or alterations in the offer. Filling up of the information using terms such as “OK”, “noted”, “as given in brochure/manual” is not acceptable and may lead to the disqualification of the Bid.

2.15 Earnest Money Deposit (EMD) / Bid Security

1. The Bidding Documents can be downloaded after paying requisite fee i.e. INR 25,000/- (Indian Rupees Twenty Five Thousand Only) through e-payment mode, payable to “Ludhiana Smart City Limited” from website: <https://eproc.punjab.gov.in>. The cost of bidding document is non-refundable.
2. The bidders should have the necessary portal enrolment with his/her own Digital Signature Certificate (DSC).
3. The bidder should also pay EMD of INR 1,20,00,000 (Rupees One Crore Twenty lakhs only) shall be in the form of NEFT/RTGS/Net Banking or Unconditional irrevocable Bank guarantee of any nationalized / scheduled banks with validity of 180 days and 90 days of claim period in case of the Bank Guarantee.
4. No interest will be payable by the LSCL on the Earnest Money Deposit.
5. Bidder must submit a self-attested copy of Challan issued by Bank / documentary proof in the office of Chief Executive Officer, Ludhiana Smart City Limited, in respect of e-payment made for the deposit of Bid Security. The Technical Bid will be opened after checking this challan/ documentary proof submitted by the bidder.
6. In case bid is submitted without EMD or Bid fees as mentioned above then LSCL shall reject the bid without providing opportunity for any further correspondence to the bidder concerned and the Bids shall be treated as non-responsive.
7. The EMD of unsuccessful Bidders will be returned by the Authority, without any Interest, as promptly as possible on acceptance of the Proposal of the Selected Bidder or when the Authority cancels the Bidding Process.
8. The Selected Bidder’s EMD will be returned, without any interest, upon the Selected Bidder signing the Agreement and furnishing the Security Deposit / Performance Guarantee in accordance with the provision thereof

9. The decision of LSCL regarding forfeiture of the EMD and rejection of bid shall be final & shall not be called upon question under any circumstances.
10. The EMD may be forfeited:
 - If a Bidder withdraws their bid or increases their quoted prices during the period of bid validity or its extended period, if any; or
 - In the case of a successful bidder, if the Bidder fails to sign the Contract or to furnish Performance Bank Guarantee within specified time
 - During the bid process, if a Bidder indulges in any such deliberate act as would jeopardize or unnecessarily delay the process of bid evaluation and finalization.
 - During the bid process, if any information found wrong / manipulated / fraudulent information in the bid.

2.16 Bid Prices

The Bidder shall indicate in the proforma prescribed, the unit rates and total Bid Prices for the product and services, it proposes to provide under this RFP. Prices should be shown separately for each item as detailed in this document.

The Bidder shall prepare the Bid based on details provided in the RFP document. It must be clearly understood that the Scope of Work is intended to give the Bidder an idea about the order and magnitude of the work and is not in any way exhaustive and guaranteed by the Authority. The Bidder shall carry out all the tasks in accordance with the requirement of the RFP document & with due diligence. It shall be the responsibility of the Bidder to fully meet all the requirements and objectives of the RFP. If during the course of execution of the project any minor revisions to the work requirements like technical specifications, equipment sizing, etc. are to be made to meet the goals of the Project; such changes shall be carried out within the proposed price. If any deviation has a major impact on the Project Cost, the Authority shall take appropriate decision and such decisions would be binding on the Bidder.

2.17 Firm Prices

Prices quoted in the Bid must be firm and shall not be subject to any modifications, on any account whatsoever. The Bid Prices shall be indicated in Indian Rupees (INR) only.

The Price Bid should clearly indicate the price quoted without any ambiguity whatsoever and should include all applicable taxes, duties, fees, levies, and other charges as may be applicable in relation to the activities proposed to be carried out. Should there be a change in applicable taxes, the actual taxes on the date of billing would prevail.

Prices in any form or by any reason before opening the Price Bid should not be revealed, failing which the offer shall be liable for rejection. If price change is inevitable due to any factor external to the bidders, the bidders may be given chance to submit revised Bids in a separate sealed cover. Decisions of the Authority shall be final in this regard.

2.18 Amendment of the RFP Document

At any time prior to the submission of bids, Authority for any reason whatsoever, may, modify any element of the RFP Document by issuing a corrigendum. For the sake of interpretation, the content of any corrigenda issued by the Authority shall be read as a part of the original RFP Document. In each instance in which provisions of the Corrigenda contradict or are

inconsistent/ inapplicable with the provisions of the RFP, the provisions of the Corrigenda shall prevail and govern, and the contradicted or inconsistent/inapplicable provisions of the RFP shall be deemed amended accordingly.

The Authority may in its sole discretion consider extension of deadlines for submission of the bids, in order to allow prospective bidders reasonable time to take the amendment into account while preparing their bids. All the communications with regards to the clarifications / corrigendum shall be uploaded in the website <https://eproc.punjab.gov.in>.

It shall be the responsibility of the prospective bidder(s) to check the Authority's website and e-procurement portal from time to time for any amendment in the RFP document. In case of failure to get the amendments, if any, Authority shall not be responsible.

2.19 Inspection of Site and sufficiency of RFP

Bidder is expected to work out their own rates based on the detailed description of scope of work, the specifications, SLA conditions, etc. and should judiciously arrive at the bidding price. The Bidder shall be deemed to have satisfied itself before Bid submission as to correctness and sufficiency of its bid. The rates quoted by bidder shall cover all its obligations under the RFP necessary for proper execution of the project including O&M.

If necessary, before submitting its Bid the Bidder should inspect and examine various sites and its surroundings and shall satisfy itself about form and nature of the Sites (including camera locations), means of access to the Sites, and in general, obtain all necessary information which may influence or affect Project implementation and operationalization. No extra charges consequent on any misunderstanding or otherwise shall be allowed.

2.20 Deviations and Exclusions

Bids shall be submitted strictly in accordance with the requirements and terms & conditions of the RFP. The Bidder shall submit a No Deviation Certificate as per the format mentioned in Section 5.6. The bids with deviation(s) are liable for rejection.

2.21 Total Responsibility

Bidder should issue a statement undertaking total responsibility for the defect free operation of the proposed solution as per the format mentioned in Section 5.7

2.22 Key Personnel

Authority has identified certain key positions and minimum qualifications for each of the positions that should be part of project team of the bidder (hereby referred to as "key personnel"). Details of these key positions are provided in Section 6.9

d) Initial Composition; Full Time Obligation; Continuity of Personnel

Bidder shall ensure that each member of the Key Personnel devotes substantial working time as per the staffing schedule/ manpower plan to perform the services to which that person has been assigned as per the bid.

Bidder shall not make any changes to the composition of the Key Personnel and not require or request any member of the Key Personnel to cease or reduce his or her involvement in the provision of the Services during the defined term of the engagement unless that person resigns, is terminated for cause, is long-term disabled, is on permitted mandatory leave under Applicable Law or retires.

In any such case, the Authority's prior written consent would be mandatory.

e) Evaluations

Bidder shall carry out an evaluation of the performance of each member of the Key Personnel in connection with the Services at least once in each Contract Year. Bidder shall provide reasonable written notice to Authority of the date of each evaluation of each member of the Key Personnel. Authority shall be entitled to provide inputs to the bidder for each such evaluation. Bidder shall promptly provide the results of each evaluation to Authority, subject to Applicable Law.

f) Replacements

In case any proposed resource resigns, then the Bidder has to inform Authority within one week of such resignation.

Bidder shall promptly initiate a search for a replacement to ensure that the role of any member of the Key Personnel is not vacant at any point in time during the contract period, subject to reasonable extensions requested by Bidder to Authority.

Before assigning any replacement member of the Key Personnel to the provision of the Services, Bidder shall provide Authority with:

- a. A resume, curriculum vitae and any other information about the candidate that is reasonably requested by Authority; and
- b. An opportunity to interview the candidate.

The bidder has to provide replacement resource of equal or better qualification and experience as per the requirements of this RFP

If Authority objects to the appointment, Bidder shall not assign the individual to that position and shall seek an alternative candidate in accordance with the resource requirements of this RFP.

The bidder needs to ensure at least 4 weeks of overlap period in such replacements. Authority will not be responsible for any knowledge transition to the replacement resource and any impact/escalation of cost incurred by the bidder due to resource replacement.

g) High Attrition

If in the first 6 month period from the Contract Effective Date and in any rolling 12 months period during the Term of contract, 15 percent or more of the members of the Key Personnel cease or reduce their involvement in the Services for any reason other than with Authority's prior written consent, Bidder shall:

- a. provide Authority with a reasonably detailed explanation as to the reasons for such change, including, where applicable and permitted, notes from any exit interviews conducted by Bidder with any departing member of the Key Personnel; and
- b. if such change to Key Personnel has or is likely to have any material adverse impact on the provision of the Services or any substantial part thereof, undertake, at its own costs, such remediation acts as are reasonably necessary in order to improve the retention of the Key Personnel including making reasonable changes to the human resources policies and procedures applicable to the Key Personnel (including those

related to compensation, benefits and other conditions so that they are competitive with the market) as may be necessary to ensure that such policies and procedures comply with Good Industry Practice.

2.23 Inclusion of MSMEs in Project Delivery

Bidders are encouraged to include Micro, Small and Medium Enterprises (MSMEs) in the delivery of the project.

2.24 Right to vary quantity

1. At the time of award of contract, the quantity of goods, works or services originally specified in the bidding documents may be increased. It shall be without any change in the unit prices or other terms and conditions of the Bid and the bidding documents.
2. If the Authority does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the bidder shall not be entitled for any claim or compensation except otherwise provided in the bidding document.
3. Repeat orders for extra items or additional quantities may be placed, if it is provided in the bidding document, on the rates and conditions given in the contract if the original order was given after inviting open competitive bids. Delivery or completion period may also be proportionally increased.
4. During the course of implementation and detailed due diligence it may be required to vary the quantity and location of the field devices to suit the overall smart city requirements. The MSI/consortium should be required to provision and supply such field devices and the backend resources at the unit rates quoted in the tender response. Such escalations/additions may go up to 25% of the specified BOQ.

2.25 Withdrawal, Substitution and Modification of Bids

1. A Bidder may withdraw its Bid or re-submit its Bid (technical and/ or financial) as per the instructions/ procedure mentioned at e-Procurement website
2. Bids withdrawn shall not be opened and processed further.

3 Selection Criteria

3.1 Opening of Bids

The Bids shall be opened by Authority in presence of those Bidders or their representatives who may be present at the time of opening.

The representatives of the bidders are advised to carry the identity card or a letter of authority from the bidder firms to identify that they are bona fide representatives of the bidder firm, for attending the opening of bid.

There will be three bid-opening events:

- 1. Set 1 (RFP Document fee & Bid Security/EMD) and Set 2 (Pre-Qualification bid)**
- 2. Set 3 (Technical bid)**
- 3. Set 4 (Price bid)**

The venue, date and time for opening the Pre-qualification bid and technical bid are mentioned in the Fact sheet.

The date and time for opening of price bid would be communicated to the qualified bidders.

Bids received within the prescribed closing date and time will be opened on the e-procurement platform, on the date, time and at the address mentioned in the RFP Document.

- a. Technical bid of only those Bidders shall be opened who meet the Pre-Qualification requirements.
- b. Price Bid of only those Bidders shall be opened who obtain minimum 70 marks in the technical evaluation.
- c. In case, none of the bidder achieves the min. qualifying Technical marks, the Technical Evaluation Committee may revise the min. qualification marks to 60 in the interest of this RFP finalization. Tender Evaluation Committee's decision in this regard shall be final and binding on the Bidder.

3.2 Preliminary Examination of Bids

Authority shall examine the bids to determine whether they are complete, whether the documents have been properly signed and whether the bids are generally in order. Any bids found to be nonresponsive for any reason or not meeting any criteria specified in the RFP, shall be rejected by Authority and shall not be included for further consideration.

Initial Bid scrutiny shall be held and bids will be treated as non-responsive, if bids are:

- a. Not submitted in format as specified in the RFP document
- b. Received without the Letter of Authorization (Power of Attorney)
- c. Found with suppression of details
- d. With incomplete information, subjective, conditional offers and partial offers submitted
- e. Submitted without the documents requested
- f. Non-compliant to any of the clauses mentioned in the RFP
- g. With lesser validity period

- h. EMD not submitted / lesser EMD validity period
- i. If the Bidder gives wrong information in the Bid.
- j. Canvassing in any form in connection with the Bid.
- k. Bids submitted after due date and time.
- l. Bids submitted by Print out/Telex/Telegram/Fax/e-mail.
- m. Erasure and/or over writing is/are Not permissible
- n. Bids not signed by authorized signatory

3.3 Clarification on Bids

During the bid evaluation, Authority may, at its discretion, ask the Bidder for any clarification(s) of its bid. The request for clarification and the response shall be in writing, and no change in the price or substance of the bid shall be sought, offered, or permitted. Clarifications shall be obtained only in the pre-historic information like bidders credentials etc.

3.4 Evaluation Process

Authority shall constitute a Tender Evaluation Committee to evaluate the responses of the bidders. The Tender Evaluation Committee shall evaluate the responses to the RFP and all supporting documents/documentary evidence. Inability to submit requisite supporting documents/documentary evidence by bidders may lead to rejection of their bids.

The decision of the Tender Evaluation Committee in the evaluation of bids shall be final. No correspondence will be entertained outside the process of evaluation with the Committee. The Tender Evaluation Committee may ask for meetings or presentation with the Bidders to seek clarifications or confirmations on their bids.

The Tender Evaluation Committee reserves the right to reject any or all bids. Each of the responses shall be evaluated as per the criteria and requirements specified in this RFP.

The steps for evaluation are as follows:

3.4.1 Stage 1: Pre-Qualification

1. Authority shall validate the Set 1 "RFP Document fee & Bid Security/Earnest Money Deposit (EMD)".
2. If the contents of the Set 1 are as per requirements, Authority shall open the "Pre-Qualification Bid". **Each of the Pre-Qualification condition mentioned in the document is MANDATORY.** In case, the Bidder does not meet any one of the conditions, the bidder shall be disqualified.
3. Bidders will be informed of their qualification/disqualification based on the Pre-Qualification criteria through Email and Phone and subsequently, the Bid Security amount shall be returned to the respective disqualified Bidders after the submission of Performance Bank Guarantee by the successful Bidder. Bids of only those bidders who meets the Pre-Qualification criteria, shall be considered for further evaluation i.e. Stage – 2: Technical Evaluation
4. Technical and Price bids for those bidders who don't pre-qualify will not be opened. Price bid will not be opened for those bidders, who don't qualify the technical evaluation. Bid

Security amount shall be retuned for those who don't qualify the financial evaluation stage after Performance Bank Guarantee is submitted by successful bidder.

3.4.2 Stage 2: Technical Evaluation

1. "Technical bid" will be evaluated only for the bidders who succeed in Stage 1.
2. Authority (or Committee approved by the Authority) will review the technical bids of the short-listed bidders to determine whether the technical bids are substantially responsive. Bids that are not substantially responsive are liable to be disqualified at Authority's discretion.
3. The bidders' technical solutions proposed in the bid document shall be evaluated as per the requirements specified in the RFP and technical evaluation framework as mentioned in the RFP
4. The Bidders shall make a presentation to the Authority/ Committee appointed by the Authority to supplement their bids which include the following
 - Approach & Methodology including Project Experience
 - Proposed Solutions
 - Manpower – Technical Resources
 - Proof of Concept of proposed solution
5. The Authority envisages to have proof of concept / technical demonstration to evaluate the technology & system performance for getting city business outcome; During the Demonstration/Proof-of-Concept (PoC) at technical evaluation stage, the Evaluation Committee will give special attention to verify the quality, robustness and appropriateness of the proposed Solutions/Equipment. If any brand / products are found un-suitable, Bidder may get disqualified or may be asked to replace the product with better products, meeting the tender requirements, without any change in commercial bid. Bidder may demonstrate local setup or existing deployments over network/cloud.
6. The Authority will notify the date and venue for conducting such proof of concept / technical demonstration to the prospective bidders.
7. Each Technical Bid will be assigned a technical score out of a maximum of 100 Points.
8. Each Technical Bid will be assigned a technical score out of a maximum of 100 marks. Only those bidders who get min Technical score of 70% will qualify for commercial evaluation stage and Bidder should get minimum of 50% of marks in each of the Technical Eligibility Criteria. Failing to secure minimum marks shall lead to rejection of the Bid.

3.4.3 Stage 3: Commercial Evaluation

1. All the technically qualified bidders will be notified to participate in Commercial Bid opening process.
2. The commercial bids for the technically qualified bidders shall then be opened on the notified date and time and reviewed to determine whether the commercial bids are substantially responsive. Bids that are not substantially responsive are liable to be disqualified at Authority's discretion.

3. Commercial Bids that are not as per the format provided in the RFP shall be liable for rejection.
4. The bid price shall include all taxes and levies and shall be in Indian Rupees and mentioned separately

The Authority or any other government agency shall not have any liability of paying any taxes (including GST)/charges/levies as part of this project. The bidder has to quote their Price duly factoring all these costs over the project duration.

If there is any discrepancy in the Price Bid, it will be dealt as per the following:

1. If, in the price structure quoted for the required Product and Services, there is discrepancy between the unit price and total price (which is obtained by multiplying the unit price by the quantity), only the total price/cost as quoted in the table in the Price Bid Format 1 shall prevail. The unit prices quoted in the Price Bid Format 2 shall be considered only in case of any deviations/modifications in the scope of the work in due course.
2. If there is a discrepancy between words and figures, the amount in words shall prevail.

3.4.4 Successful bidder evaluation

The Selection of MSI shall be through two stage Least Cost System (LCS) with the 1st Stage consisting of Prequalification and Technical Criteria evaluation. The minimum qualifying marks for 1st stage would be 70 marks out of 100 marks. 2nd stage would be evaluation of Financial Bid and the Bidder with L1 Bid will be selected based on Total Price (Capex Price + Opex Price)

The bidder with lowest Total Price (Capex Price + Opex Price) will be declared as the winner and will be invited for negotiations for awarding the contract. In case of a tie where two or more bidders have equal Total Price, the bidder with the higher technical score will be invited first for negotiations for awarding the contract.

3.5 Pre-Qualification Criteria

The bidder must possess the requisite experience, strength and capabilities in providing services necessary to meet the requirements as described in the RFP document. Keeping in view the complexity and volume of the work involved, following criteria are prescribed as the eligibility criteria for the bidder interested in undertaking the project. The bidder must also possess technical know-how and financial ability that would be required to successfully provide System Integration, Operation and Maintenance services sought by LSCL for the entire contract duration. The bids must be complete in all respect and should cover entire scope of work as stipulated in the bid document. This invitation to bid is open to all bidders who qualify the eligibility criteria as given below:

#	Eligibility Criteria	Document Proof	Name to be given to the PDF file to be uploaded
1.	The Sole Bidder OR Lead Bidder (in case of consortium) Should be: <ul style="list-style-type: none"> An Indian Firm 	For Sole/Lead Bidder <ul style="list-style-type: none"> Copy of Certificate of Incorporation / Registration under Companies Act 1956/2013 or Partnership Act of 1932 	PQ_1

#	Eligibility Criteria	Document Proof	Name to be given to the PDF file to be uploaded
	<ul style="list-style-type: none"> Registered under the Companies Act 1956/2013 in India or LLP firm/ Partnership firm under Partnership Act of 1932 In operation in India for a period of at least 10 years as on March 31, 2018. <p>Consortium Members</p> <ul style="list-style-type: none"> Max 3 companies are allowed in a Consortium including lead bidder. (First Party (Lead Member): [should have at-least 51% percentage participation] Second Party: [should have at least 20% percentage participation] Third Party: should have at least 20% percentage participation] Could be an Indian Should have registered in India under Companies Act 1956/2013 or LLP/ Partnership firm under Partnership Act of 1932 In operation in India for a period of at least 5 years as on March 31, 2018. 	<ul style="list-style-type: none"> Memorandum and Articles of Association GST Registration Certificate Copy of purchase orders showing at least 10 years of operations or Certified true copy of relevant extracts of balance sheet and PL statements for last 10 years <p>For Consortium members other than lead bidder</p> <ul style="list-style-type: none"> Copy of Certificate of Incorporation / Registration under Companies Act, 1956/2013 or Partnership Act of 1932 GST Registration Certificate Consortium agreement clearly stating the roles and responsibilities of each member Copy of purchase orders showing at least 5 years of operations or Certified true copy of relevant extracts of balance sheet and PL statements for last 5 years 	
2.	<p>The Bidder/ Consortium shall have an average annual turnover or INR 180 Crores over the last three (3) financial years (2018-2017, 2017-2016, 2016-2015)</p> <ul style="list-style-type: none"> In case of consortium <ul style="list-style-type: none"> Lead Bidder should have 	<ul style="list-style-type: none"> The Sole Bidder or the Lead Bidder and all other members of consortium: Audited statement for last 3 financial years of sole bidder Audited statement for last 3 financial years of lead 	PQ_2

#	Eligibility Criteria	Document Proof	Name to be given to the PDF file to be uploaded
	<p>minimum 60% of the Turnover</p> <ul style="list-style-type: none"> ○ All members together should meet 180 Cr Turnover requirement <p>Lead member or Consortium members shall be into one of the following specific business areas</p> <ul style="list-style-type: none"> • Specific Business Areas <ul style="list-style-type: none"> ○ ICT Infrastructure ○ IT system integration services 	<p>bidder & member companies</p> <ul style="list-style-type: none"> • Certificate from the Statutory Auditor/ CA Certificate on turnover details from the “specific business areas” over the last 3 financial years 	
3.	<p>The sole bidder (or Lead Bidder & all members in case of consortium) should have a positive net worth for the previous 3 financial years (2018-2017, 2017-2016, 2016-2015)</p>	<ul style="list-style-type: none"> • Audited and Certified Balance Sheet and Profit/Loss Account of last 3 Financial Years should be enclosed • Certificate from the Statutory auditor/ CA clearly specifying the net worth of the firm 	PQ_3
4.	<p>The Bidder (or any consortium member) shall have successfully executed at least two (2) projects related to implementation of following scope in last 7 years as of 31.03.2018:</p> <ul style="list-style-type: none"> • Surveillance system like CCTV surveillance system. Each project should have at least 200 cameras. Value of the each project should be minimum of INR 1.5 Crore 	<p>Documentary evidence (Copy of completion/ Ongoing client certificate and Work Order/ Contract)</p> <p>Note: Details on the supporting document is provided below as point 1</p>	PQ_4
5.	<p>The bidder (or any Consortium member) should have experience of setting up or O&M of Datacentre Equipment/ Integrated command and control room /emergency response centre / Security and Surveillance control room/ City</p>	<p>Documentary evidence (Copy of completion/ Ongoing client certificate and Work Order/ Contract)</p> <p>Note: Details on the supporting document is provided below as point 1</p>	PQ_5

#	Eligibility Criteria	Document Proof	Name to be given to the PDF file to be uploaded
	<p>wide NOC/Surveillance control room built for Central Government / State Government / Public Sector Units (PSUs) as on 31st March 2018 of value not less than INR 2.5 Crore each.</p> <p>Note: In-house projects for their own corporation executed by the bidder shall not be considered for above purpose</p> <p>Note: In case bidder/prime bidder is a wholly owned subsidiary, the experience of parent company would be considered for eligibility</p>		
6.	Affidavit by the Bidder, each member of consortium (if applicable) duly signed by the authorized signatory confirming they have not been blacklisted by any Central / State Government Department or Central/State Public Sector Units (PSUs), Government (Central / State / PSU/ World Bank/Asian Development Bank) Organization in India as on the bid submission date in India	Undertaking by the authorized signatory of bidder (In case of Consortium to be provided by each member) as per format given in Annexure1 , section 5.5	PQ_6
7.	Sole Bidder/Lead bidder should establish Project office within 30 days of issuance of LoI in Ludhiana City if not established earlier	<p>Undertaking to open Office in Ludhiana</p> <p>Or</p> <p>Copies of any two of the followings: Property Tax / Electricity / Telephone Bill / CST Registration /Lease agreement.</p>	PQ_7
8.	<p>The Sole Bidder or any of Consortium members, should jointly possess any three (3) of the below certifications which are valid at the time of bidding:</p> <p>e) ISO 9001:2008/ ISO 9001:2015 for Quality Management System</p>	<p>The Sole Bidder or any of Consortium members: Copies of valid certificates AND For CMMi Level 3 or above</p> <p>Copies of valid certificates</p> <p>In case the Bidder is in the process of re-certification of</p>	PQ_8

#	Eligibility Criteria	Document Proof	Name to be given to the PDF file to be uploaded
	<p>f) ISO 14001:2015 for Environmental Management System</p> <p>g) ISO 20000:2011 for IT Service Management</p> <p>h) ISO 27001:2013 for Information Security Management System</p> <p>v. CMMi Level 3 or above for Capability Maturity Model Integration</p> <p>Note: Each member of the Consortium should possess minimum one (1) of the above valid certification</p>	<p>CMMi Level 3 or above; then the copy of expired certificate and present assessment certificate from duly authorised CMMi Auditor to be enclosed</p>	
9.	<p>Specific Power of Attorney in favour of Authorised Signatory signing the Bid and Board Resolution in favour of person granting the Power of Attorney for the Sole Bidder or the Lead Bidder in case of Consortium who shall sign the Contract Agreement.</p> <p>Specific Power of Attorney in favour of Authorised Signatory signing the bid and Board Resolution in favour of person granting the Power of Attorney for the Lead Bidder from each member of the Consortium authorizing to sign the Contract Agreement on behalf of them</p>	<p>Specific Power of Attorney for the Sole Bidder or the Lead Bidder in case of Consortium to sign the Contract Agreement as per format in</p> <p>Specific Power of Attorney from each consortium member to the Lead Bidder authorizing to sign the Contract Agreement on behalf of them as per format</p>	PQ_9

Important Note:

- For all the project experience, following documentary evidences are required:
 - Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order.
 - Completion Certificate issued & signed by the authorized signatory of the client entity on the entity's Letterhead
 - Citations
- In case project is on-going a certificate from the Chartered Accountant/Statutory Auditor has to be provided mentioning that 80% of Capex is complete.

3. In case the experience shown is that of the bidder's parent / subsidiary /sister concern company, than the following additional documents are required:
 - Certificate signed by the Company Secretary/statutory Auditor/2 Board of Directors of the bidder certifying that the entity whose experience is shown is parent/subsidiary/sister concern Company.
 - Shareholding pattern of the bidding entity as per audit reports.
4. For parameter 5, the proposed project will be considered for evaluation only if its scope covers following under the individual component:
 - Command & Control Center (CCC): Assignment in which CCC comprising of Control Room / Command and Control Room Software and Control, Management (Video wall) room, Operations room, Contact center/helpdesk are built.
5. For International project if the original client certificate and other documents are in language other than English than a translated copy duly confirmed by Indian embassy/ One of the board of directors of the lead bidder/ consortium member shall be submitted along with bid document
6. For projects where fee has been received in any currency other than Indian Rupees, than the foreign currency conversion rate available on Reserve Bank of India's portal as on the date of publication of the tender document shall be used for conversion of amount in foreign currency to Indian Rupees equivalent.
7. Bidders are allowed to submit experience in terms of technical qualification of their holding (parent) company or subsidiary company or sister concern only.
 - a 'holding company', in relation to one or more other companies, means a company of which such companies are subsidiary companies; and
 - a 'subsidiary company' in relation to any other company (that is to say the holding company), means a company in which the holding company— (a) controls the composition of the Board of Directors; or (b) exercises or controls more than one-half of the total share capital at its own
 - a 'sister concern' in relation to Bidder Company, means a company whose holding company is same as bidder's holding company and holding company (a) controls the composition of the Board of Directors; or (b) exercises or controls more than one-half of the total share capital at its own
8. In case where the bidder is dependent upon the technical experience of the subsidiary company or the parent company or the sister concern, with a view to ensure commitment and involvement of the parent/ subsidiary/sister company for successful execution of the contract, the participating bidder should enclose (i) an Agreement (as per format enclosed at Annexure 7 of this Volume) between the bidder and its parent / subsidiary/Sister concern company for fulfilling the obligation and deployment of expert during implementation phase for the Track/Component for which the experience is being used and (ii) Guarantee (as per format enclosed at Annexure 8 of this Volume) from the parent/ subsidiary/sister concern company in favour of LSCL.

3.6 Technical Bid Evaluation Criteria

The Bidder's technical solution proposed in the Technical Evaluation bid shall be evaluated as per the evaluation criteria in the following table.

Section #	Evaluation Criteria	Points
A	Sole Bidder/Lead Bidder Profile	10
B	Sole Bidder /Consortium Project Experience	50
C	Approach & Methodology & Project Presentation/Demonstration	10
D	Proposed Resources for the Project	30
Technical Score		100

Notes:

- Bidder to submit work order and end client work in-progress (minimum 80% Project completion) / completion certificate as a supporting documents for each Project.
- Project citations of only up to one level of sub-contracting will be considered for evaluation.

Important: Qualification criteria for Technical Evaluation and progression to commercial evaluation stage:

- Minimum 70% (70 marks) of the overall technical score total with minimum of 50% in each of Technical Evaluation Criteria

Note: Authority (or a nominated party) reserves the right to check/validate the authenticity of the information provided in the Pre-qualification and Technical Evaluation criteria and the requisite support must be provided by the Bidder.

The following sections explain how the Bidders shall be evaluated on each of the evaluation criteria:

3.6.1 Technical Bid Evaluation Criteria

#	Technical Evaluation Criteria	Technical Evaluation parameter	Points	Name to be given to the PDF file to be uploaded
A. Sole Bidder/ Lead Bidder Profile				
A1	Annual Turnover	The Bidder/ Consortium shall have an average annual turnover of INR 180 Crores over the last three (3) financial years (2018-2017, 2017-2016, 2016-2015). In case of consortium <ul style="list-style-type: none"> Lead Bidder should have minimum 60% of Turnover All members together should meet 	6	TQ_1

#	Technical Evaluation Criteria	Technical Evaluation parameter	Points	Name to be given to the PDF file to be uploaded										
		<p>cumulative of INR 180 Cr Turnover</p> <ul style="list-style-type: none">Lead members or consortium members shall be into one of the following specific business areas <p>Specific Business Areas</p> <ul style="list-style-type: none">ICT InfrastructureIT system integration services <table><tr><th>Turnover</th><th>Marks</th></tr><tr><td>More than 360 Crore</td><td>6</td></tr><tr><td>>= INR 230 Crore to <= INR 360 Crore</td><td>5</td></tr><tr><td>>= 180 Crore to <= 230Crore</td><td>4</td></tr></table>	Turnover	Marks	More than 360 Crore	6	>= INR 230 Crore to <= INR 360 Crore	5	>= 180 Crore to <= 230Crore	4				
Turnover	Marks													
More than 360 Crore	6													
>= INR 230 Crore to <= INR 360 Crore	5													
>= 180 Crore to <= 230Crore	4													
A2	People in organization (Full time Employees – FTE in ICT projects)	<table><tr><th>Number of FTE</th><th>Marks</th></tr><tr><td>> 400 FTE</td><td>4</td></tr><tr><td>> 300 FTE to <= 400 FTE</td><td>3</td></tr><tr><td>> 200 FTE to <= 300 FTE</td><td>2</td></tr></table> <p>Submission of HR certificate stating the same</p>	Number of FTE	Marks	> 400 FTE	4	> 300 FTE to <= 400 FTE	3	> 200 FTE to <= 300 FTE	2	4	TQ_2		
Number of FTE	Marks													
> 400 FTE	4													
> 300 FTE to <= 400 FTE	3													
> 200 FTE to <= 300 FTE	2													
B. Sole Bidder /Consortium Project Experience														
B1	City Surveillance System	<p>The Bidder (or consortium member) shall have successfully executed at-least two (2) projects related to implementation of following scope in last 7 years (from the date of submission of bid):</p> <p>1. Surveillance system like CCTV surveillance system. The project should have atleast 200 cameras. Value of the each project should be minimum of INR 1.5 Crore</p> <table><tr><th>Number of Projects</th><th>Marks</th></tr><tr><td>> 3 projects</td><td>8</td></tr><tr><td>3 projects</td><td>7</td></tr><tr><td>2 projects</td><td>6</td></tr><tr><td>Else</td><td>0</td></tr></table>	Number of Projects	Marks	> 3 projects	8	3 projects	7	2 projects	6	Else	0	8	TQ_3
Number of Projects	Marks													
> 3 projects	8													
3 projects	7													
2 projects	6													
Else	0													

#	Technical Evaluation Criteria	Technical Evaluation parameter	Points	Name to be given to the PDF file to be uploaded										
B2	Public Address/ Information System	<p>The Bidder (or consortium member) shall have successfully executed at least two (2) projects related to information systems mentioned in the list below in last 7 years (from the date of submission of bid):</p> <p>1. At least 10 Variable Message Display or 2. At least 50 Public Address System/ 50 Emergency Call Box or 3. At least 10 Environmental Sensors</p> <table><tr><th>Number of Projects</th><th>Marks</th></tr><tr><td>> 3 projects</td><td>7</td></tr><tr><td>3 projects</td><td>6</td></tr><tr><td>2 projects</td><td>5</td></tr><tr><td>Else</td><td>0</td></tr></table>	Number of Projects	Marks	> 3 projects	7	3 projects	6	2 projects	5	Else	0	7	TQ_4
Number of Projects	Marks													
> 3 projects	7													
3 projects	6													
2 projects	5													
Else	0													
B3	Design, Build and Maintenance of Server Room	<p>The bidder (or any Consortium member) should have been awarded and successfully executed at least two (2) projects related to implementation or management of IT Infrastructure for Server Room for PSU/Central Government/ State Government or any other government organization or agencies having a minimum value of INR 2.5 crores each in last seven (7) years (from the date of submission of bid). The Data Center shall be of minimum Tier II</p> <table><tr><th>Number of Projects</th><th>Marks</th></tr><tr><td>> 3 projects</td><td>15</td></tr><tr><td>3 projects</td><td>10</td></tr><tr><td>2 projects</td><td>5</td></tr><tr><td>Else</td><td>0</td></tr></table>	Number of Projects	Marks	> 3 projects	15	3 projects	10	2 projects	5	Else	0	15	TQ_5
Number of Projects	Marks													
> 3 projects	15													
3 projects	10													
2 projects	5													
Else	0													

#	Technical Evaluation Criteria	Technical Evaluation parameter	Points	Name to be given to the PDF file to be uploaded								
B4	Design, Build and Maintain of Integrated Command and Control Centre	<p>The bidder (or any Consortium member) should have experience of setting up or O&M of 2 (two) projects covering Data centre Equipment/ Integrated command and control room /emergency response centre / Security and Surveillance control room/ City wide NOC/Surveillance control room built for Central Government / State Government / Public Sector Units (PSUs) as on 31st March 2018 of value not less than INR 2.5 Crore each.</p> <table><tr><th>Number of Projects</th><th>Marks</th></tr><tr><td>>= 3 projects</td><td>10</td></tr><tr><td>2 projects</td><td>7</td></tr><tr><td>1 projects</td><td>5</td></tr></table>	Number of Projects	Marks	>= 3 projects	10	2 projects	7	1 projects	5	10	TQ_6
Number of Projects	Marks											
>= 3 projects	10											
2 projects	7											
1 projects	5											
B5	Integration of ICT applications with Command and Control Center	<p>The bidder (or any consortium member) should have been awarded and successfully executed at least two (2) projects related to implementation or integration of at least four (4) different components from the list below with integration command and Control center in the last seven (7) years</p> <ul style="list-style-type: none">• City Surveillance System• Smart Governance• Parking System• Vehicle Tracking System• Intelligent Solid Waste Management System• Traffic Signal/ Traffic Enforcement System/E-Challan• Water & Power SCADA• Smart Lighting/LED lights• PAS/ECB• Variable Message Displays• Access Control System <table><tr><th>Number of Projects</th><th>Marks</th></tr><tr><td>> =3 projects</td><td>10</td></tr><tr><td>2 projects</td><td>8</td></tr><tr><td>1 projects</td><td>6</td></tr></table>	Number of Projects	Marks	> =3 projects	10	2 projects	8	1 projects	6	10	TQ_7
Number of Projects	Marks											
> =3 projects	10											
2 projects	8											
1 projects	6											
C. Approach & Methodology & Project Presentation/Demonstration												

#	Technical Evaluation Criteria	Technical Evaluation parameter	Points	Name to be given to the PDF file to be uploaded												
C1	Approach & Methodology	Following parameters will be evaluated (To be provided in section 6.13):	3	TQ_8												
		<table><tr><th>Parameter</th><th>Marks</th></tr><tr><td>Understanding of the project and conformity to volume 2 : Functional Requirement and High level Architecture of the proposed solution as per requirements of the RFP</td><td rowspan="2">1</td></tr><tr><td>Proposed deployment architecture for on-premise DC, cloud DC & cloud DR to meet the functionalities as given in RFP and Proposed Network Architecture covering ICCC viewing center, CCC platform (DC Cloud), on-premise DC & cloud DR to meet the functionalities as given in RFP</td></tr><tr><td>Proposed security solution to safeguard against various threats including hacking attempts, cyber-crime, internal/ external threats etc.</td><td>1</td></tr><tr><td>Proposed solution for design & development of SOPs and KPIs, also please list down all the SOPs & KPIs identified for the solution.</td><td rowspan="3">1</td></tr><tr><td>Identification of major risks for the projects and also propose suitable mitigation plan for each of identified risks.</td></tr><tr><td>Methodology, tools and Technologies to create, monitor & maintain all the SLAs and managing change requests</td></tr><tr><td>Proposed structure for: 1. Project Strategy 2. Project Management 3. Risk Management 4. Resource Plan 5. Project Governance Model</td></tr></table>			Parameter	Marks	Understanding of the project and conformity to volume 2 : Functional Requirement and High level Architecture of the proposed solution as per requirements of the RFP	1	Proposed deployment architecture for on-premise DC, cloud DC & cloud DR to meet the functionalities as given in RFP and Proposed Network Architecture covering ICCC viewing center, CCC platform (DC Cloud), on-premise DC & cloud DR to meet the functionalities as given in RFP	Proposed security solution to safeguard against various threats including hacking attempts, cyber-crime, internal/ external threats etc.	1	Proposed solution for design & development of SOPs and KPIs, also please list down all the SOPs & KPIs identified for the solution.	1	Identification of major risks for the projects and also propose suitable mitigation plan for each of identified risks.	Methodology, tools and Technologies to create, monitor & maintain all the SLAs and managing change requests	Proposed structure for: 1. Project Strategy 2. Project Management 3. Risk Management 4. Resource Plan 5. Project Governance Model
		Parameter			Marks											
		Understanding of the project and conformity to volume 2 : Functional Requirement and High level Architecture of the proposed solution as per requirements of the RFP			1											
		Proposed deployment architecture for on-premise DC, cloud DC & cloud DR to meet the functionalities as given in RFP and Proposed Network Architecture covering ICCC viewing center, CCC platform (DC Cloud), on-premise DC & cloud DR to meet the functionalities as given in RFP														
		Proposed security solution to safeguard against various threats including hacking attempts, cyber-crime, internal/ external threats etc.			1											
		Proposed solution for design & development of SOPs and KPIs, also please list down all the SOPs & KPIs identified for the solution.			1											
		Identification of major risks for the projects and also propose suitable mitigation plan for each of identified risks.														
Methodology, tools and Technologies to create, monitor & maintain all the SLAs and managing change requests																
Proposed structure for: 1. Project Strategy 2. Project Management 3. Risk Management 4. Resource Plan 5. Project Governance Model																

#	Technical Evaluation Criteria	Technical Evaluation parameter	Points	Name to be given to the PDF file to be uploaded									
C2	Technical Demonstration	Following parameters will be evaluated during Technical Demonstration:	4	TQ_9									
		<table><tr><th>Parameter</th><th>Marks</th></tr><tr><td>Need to demonstrate Implementing Environmental Sensor, VMD, PAS, ECB</td><td rowspan="2">1</td></tr><tr><td>Need to demonstrate implementation of Security & Surveillance</td></tr><tr><td>Need to demonstrate the ICCC Control Room setup with visualization of smart components and integration with GIS on real time basis and Need to demonstrate integration of ICCC with various other components</td><td>1</td></tr><tr><td>*Need to demonstrate 3D simulation for proposed solutions</td><td>1</td></tr></table>			Parameter	Marks	Need to demonstrate Implementing Environmental Sensor, VMD, PAS, ECB	1	Need to demonstrate implementation of Security & Surveillance	Need to demonstrate the ICCC Control Room setup with visualization of smart components and integration with GIS on real time basis and Need to demonstrate integration of ICCC with various other components	1	*Need to demonstrate 3D simulation for proposed solutions	1
		Parameter			Marks								
		Need to demonstrate Implementing Environmental Sensor, VMD, PAS, ECB			1								
		Need to demonstrate implementation of Security & Surveillance											
Need to demonstrate the ICCC Control Room setup with visualization of smart components and integration with GIS on real time basis and Need to demonstrate integration of ICCC with various other components	1												
*Need to demonstrate 3D simulation for proposed solutions	1												
*Bidder is required to showcase 3D simulation for functional smart city with integrated control and command center showcasing all use cases as mentioned in this RFP. This simulation should show movement of data / feeds, working of field devices, dashboards working in command center, incident management from command center. Finally how the whole scenario is helping citizens in the Smart City.													
Please note that Bidder will be required to submit softcopy of both presentation and video to LSCL after presentation is over.													
C3	Presentation	The Bidder will need to exhibit functional and non-functional requirements through presentation. The presentation should demonstrate capabilities against the parameters highlighted in Approach & Methodology section (C1)	3	TQ_10									
D. Proposed Resources for the Project													

#	Technical Evaluation Criteria	Technical Evaluation parameter	Points	Name to be given to the PDF file to be uploaded														
D1	People on project	Each of the following profiles suggested by the bidder will be evaluated: <table><tr><th>Profile</th><th>Marks Allotted</th></tr><tr><td>Project Manager</td><td>6</td></tr><tr><td>Data / Command Center Expert / IBMS Expert</td><td>6</td></tr><tr><td>Solution Architect</td><td>5</td></tr><tr><td>Security Infrastructure Specialist</td><td>5</td></tr><tr><td>Network Architect</td><td>4</td></tr><tr><td>Server/ Storage & Database Expert</td><td>4</td></tr></table>	Profile	Marks Allotted	Project Manager	6	Data / Command Center Expert / IBMS Expert	6	Solution Architect	5	Security Infrastructure Specialist	5	Network Architect	4	Server/ Storage & Database Expert	4	30	TQ_11
Profile	Marks Allotted																	
Project Manager	6																	
Data / Command Center Expert / IBMS Expert	6																	
Solution Architect	5																	
Security Infrastructure Specialist	5																	
Network Architect	4																	
Server/ Storage & Database Expert	4																	

Important Notes:

- For all the project experience, following documentary evidences are required:
 - Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order.
 - Completion Certificate issued & signed by the authorized signatory of the client entity on the entity's Letterhead
 - Citations
- In case project is on-going a certificate from the Chartered Accountant/Statutory Auditor has to be provided mentioning that 80% of Capex is complete.
- In case the experience shown is that of the bidder's parent / subsidiary /sister concern company, than the following additional documents are required:
 - Certificate signed by the Company Secretary/statutory Auditor/2 Board of Directors of the bidder certifying that the entity whose experience is shown is parent/subsidiary/sister concern Company.
 - Shareholding pattern of the bidding entity as per audit reports.
- For International project if the original client certificate and other documents are in language other than English than a translated copy duly verified by Indian embassy shall be submit with bid document
- For projects where fee has been received in any currency other than Indian Rupees, than the foreign currency conversion rate available on Reserve Bank of India's portal as on the date of publication of the tender document shall be used for conversion of amount in foreign currency to Indian Rupees equivalent.
- Bidders are allowed to submit experience in terms of technical qualification of their holding (parent) company or subsidiary company or sister concern only.

- a 'holding company', in relation to one or more other companies, means a company of which such companies are subsidiary companies; and
 - a 'subsidiary company' in relation to any other company (that is to say the holding company), means a company in which the holding company— (a) controls the composition of the Board of Directors; or (b) exercises or controls more than one-half of the total share capital at its own
 - a 'sister concern' in relation to Bidder Company, means a company whose holding company is same as bidder's holding company and holding company (a) controls the composition of the Board of Directors; or (b) exercises or controls more than one-half of the total share capital at its own
7. In case where the bidder is dependent upon the technical experience of the subsidiary company or the parent company or the sister concern, with a view to ensure commitment and involvement of the parent/ subsidiary/sister company for successful execution of the contract, the participating bidder should enclose (i) an Agreement (as per format enclosed at Annexure 7 of this Volume) between the bidder and its parent / subsidiary/Sister concern company for fulfilling the obligation and deployment of expert during implementation phase for the Track/Component for which the experience is being used and (ii) Guarantee (as per format enclosed at Annexure 8 of this Volume) from the parent/ subsidiary/sister concern company in favor of LSCL.
 8. Authority (or a nominated party) reserves the right to check/validate the authenticity of the information provided in the Pre-qualification and Technical Evaluation criteria and the requisite support must be provided by the Bidder.
 9. Minimum absolute technical score to qualify for commercial evaluation is 70 marks out of total 100 marks and the bidder should get minimum of 50% of marks in each of above mentioned Technical Evaluation Criteria.
 10. In case, none of the bidder achieves the min. qualifying marks, the Technical Evaluation Committee may revise the min. qualification marks in the interest of this RFP finalization. The Technical Evaluation Committee's decision in this regard shall be final and binding on the Bidder.

3.6.2 Technical Demonstration of Proof of Concept during evaluation period

Objective of Technical Demonstration of POC for City Command Centre Software is to evaluate the technology & system performance for getting city business outcome;

During the Demonstration/Proof-of-Concept (PoC) at technical evaluation stage, the Technical Committee will give special attention to verify the quality, robustness and appropriateness of the proposed Solutions/Equipment and Integrated Operations Platform. If any brand / products are found un-suitable, Bidder may get dis-qualified or may be asked to replace the product with better brands meeting the tender requirements, without any change in commercial bid.

A. System Demonstration	Integrated Operations Platform Software
B. Demo Material and Set up	Demo Material – Department scope: a) Power Source b) Space for installing server and workstation Demo Material – OEM/SI Scope: Demo Setup (OEM/SI scope) at Site:

C. Performance Evaluation	Live demo and integration services
D. Suggestive Technology Selection Criteria	Please refer to parameters mentioned in the section D1 (Technical Demonstration) of Technical Evaluation Framework

Note: The Proof of Concept/ Technical Demonstration is to be presented by the named resources (Project Manager & Solution Architect) as mentioned in the section 3.6.3. Non-compliance to this will lead to deduction in marks allocated toward PoC/Technical Demonstration.

3.6.3 Key Personnel Criteria

SI shall provide adequate number of personnel, each responsible for a specific role within the project. SI shall provide clear definition of the role and responsibility of each individual personnel.

SI shall have a defined hierarchy and reporting structure for various teams that shall be part of the project. SI has to provide the list of proposed Resources for the Project. Any changes in Resource deployment will have to be approved by the Authority.

Following table indicates the minimum qualification required for Key Positions identified for this project. However, SI shall independently estimate the teams size required to meet the requirements of Service Levels as specified as part of this tender.

Project Manager = 6 marks	
a) Educational Qualification: 2 Mark	
<ul style="list-style-type: none"> MBA (IT)/M. Tech = 2 Marks BE / B. Tech = 1 Marks Else 0 	
b) Work experience in the capacity of Project Director/ Program Manager in ICT/ Command and Control Center Implementation Projects: 2 Mark	
<ul style="list-style-type: none"> >=15 years = 2 marks >=10 and <15 year = 1 Marks Else 0 	
c) Project/Program management Experience in Large ICT/ Command and Control Center implementation Project of value > 100 crores: 1 Marks	
<ul style="list-style-type: none"> >= 3 Projects= 1 Marks 2 Projects = 0.5 marks Else 0 	
d) Project Management Certification : 1 Mark	
<ul style="list-style-type: none"> PMP or PRINCE 2 Certificate (Bidder to submit scanned copy of valid certificate in the name of the resource) = 1 Marks Else 0 	
Data / Command Center Expert = 6 Marks	
a) Educational Qualification: 2 Marks	
<ul style="list-style-type: none"> MBA (IT)/M. Tech = 2 Marks Bachelor's Degree in Engineering/Instrumentation and Control= 1 Marks Else 0 Marks 	

b) Work experience as IT/ICT solution architect: 1 Marks

- ≥ 10 years = 1 Marks
- ≥ 8 and < 10 year = 0.5 Marks
- Else 0

c) Project Handled as Integrated Command and Control Center Expert Project: 2 Mark

- > 3 Project = 2 Marks
- 2-3 Project = 1 Marks
- Else 0 Mark

d) Project Management Certification : 1 Mark

- Certification on any of the ICCC platform (Bidder to submit scanned copy of valid certificate in the name of the resource) = 1 Marks

Solution Architect = 5 Marks

a) Educational Qualification: 2 Marks

- M Tech/MBA (IT/ICT) (2 Years Full Time) = 2 Marks
- Bachelor's Degree in Engineering/ = 1 Marks
- Else 0 Marks

b) Work experience as IT/ICT solution architect: 2 Marks

- ≥ 10 years = 2 Marks
- ≥ 8 and < 10 year = 1 Marks
- Else 0

c) Project Handled as Solution Architecture for Command and Control Center Project: 1 Mark

- > 3 Project = 1 Mark
- 2-3 Project = 0.5 Mark
- Else 0 Mark

Security Infrastructure Specialist= 5 Marks

a) Educational Qualification: 2 Marks

- M Tech /MBA (IT/ICT) (2 Years Full Time) = 2 Marks
- Bachelor's Degree in Engineering = 1 Marks
- Else 0 Marks

b) Work experience as Cyber Security expert: 1 Marks

- ≥ 10 years = 2 Mark
- ≥ 8 and < 10 year = 1 Mark
- Else 0

c) Project Handled as Cyber Security Expert: 1 Mark

- > 3 Project = 1 Mark
- 2-3 Project = 0.5 Mark
- Else 0 Mark

- e) Certificate like CISSP, CISM, CISA, OSCP or other equivalent from reputed organization such as CompTIA, EC Council, GIAC, ISACA and (ISC)2: 1 Mark (Bidder to submit scanned copy of valid certificate in the name of the resource)

Network Architect = 4 Marks

a) Educational Qualification: 1 Marks

- Bachelor's Degree in Engineering = 1 Marks
- Else 0 Marks

b) Work experience in Implementation of Large Networking Infrastructure Projects: 2 Mark

- >=10 years = 2 marks
- >=8 and <10 year =1 Marks
- Else 0

c) Relevant Certifications: 1 Mark

- CCNA/CCNP/Juniper/Brocade/Aruba (Understanding of Routing & Switching Infrastructure) = **1 Mark** (Bidder to submit scanned copy of valid certificate in the name of the resource)

Server Storage/Database Expert = 4 Marks

a) Educational Qualification: 1 Marks

- BE/B.Tech = 1 Marks
- Else 0 Marks

b) Work experience as Server Storage/Database Expert/Cloud Expert: 2 Mark

- >=10 years = 1 Marks
- <10 years=0.5 Marks
- Else 0

c) Project Handled as Server Storage/Database Expert/Cloud Expert: 1 Mark

- > 3 Project = 1 Mark
- 2-3 Project= 0.5 Mark
- Else 0 Mark

Following table indicates the minimum qualification required for Key Positions identified for this project. However, Bidder shall independently estimate the teams size required to meet the requirements of Service Levels as specified as part of this tender.

All the proposed positions shall be Onsite throughout the entire project implementation phase as per specified Man months .Manpower plan for Implementation Phase to be provided as per format provided in 6.8 Annexure 2

Apart from the above –mentioned resources, the Bidder shall also propose manpower to be deployed during the Operation & Maintenance phase of the Project as provided in the format 6.8 Annexure 2

Any additional or support manpower shall be estimated and should be accounted for in the Commercial proposal by the selected bidder, so that, the project as per the scope defined and agreement are fulfilled and the project objectives are met.

3.6.4 Manpower Deployment

MSI shall deploy Manpower during implementation and O&M phases. The deployed resource shall report to LSCL Project In-charge for Smart City Project and work closely with Program Management Office of the project. Following are the minimum resources required to be

deployed in the Project (Price should be quoted accordingly in commercial bid format), however MSI may deploy additional resources based on the need of the Project and to meet the defined SLAs in this RFP:

#	Criteria	Man-months Required	On-Site Deployment
1.	Project Manager	57	95%
2.	Data / Command Center Expert	29	95%
3.	Solution Architect	29	90%
4.	Security Infrastructure Specialist	53	90%
5.	Network Architect	29	90%
6.	Server Storage/Database Expert	54	90%

3.7 Conditional bids/Others by the bidders

The Bidder should abide by all terms and conditions specified in the RFP Document. Conditional bids/offers shall be liable for disqualification.

3.8 Late Tender bids

Any bid received by client after the deadline for submission of bid prescribed by the Authority, will be summarily rejected.

3.9 Bid Validity Period

Bids shall be valid for a period of 180 days (One hundred and eighty days) from the last date of submission of the bids. A Bid valid for shorter period may be considered as non-responsive. In exceptional circumstances, at its discretion, Authority may solicit the bidder's consent for an extension of the validity period. The request and the responses thereto shall be made in writing or by fax or email.

3.10 Address for Communication

Bids should be addressed to the Authority at below given address:

**Chief Executive Officer,
Ludhiana Smart City Limited,
2nd Floor, Ludhiana Municipal Corporation Office -Zone A,
Mata Rani Chowk, Ludhiana, Punjab**

3.11 Opening of Bids

Bids received within the prescribed closing date and time will be opened on the e-procurement platform, on the date, time and at the address mentioned in the RFP Documents.

- Technical bid of only those Bidders shall be opened who meet the Pre-Qualification requirements.
- Price Bid of only those Bidders shall be opened who obtain minimum 70 marks in the overall technical evaluation with minimum of 50% in each of Technical Eligibility Criteria.

- In case, none of the bidder achieves the min. technical qualifying marks, the Technical Evaluation Committee may revise the min. qualification marks in the interest of this RFP finalization. Evaluation Committee's decision in this regard shall be final and binding on the Bidder.

3.12 Clarification of Bids

To assist in the scrutiny, evaluation and comparison of bids, Authority may, at its discretion, ask some or all bidders for clarifications with regards to their Bid. The request for such clarifications and the response will necessarily be in writing (by letter / fax / email). Failure of a Bidder to submit additional information or clarification as sought by Authority within the prescribed period will be considered as non-compliance and the Proposal may get evaluated based on the limited information furnished along with the bids.

3.13 Right to accept any Bid and reject any or all Bids

Authority reserves the right to accept or reject any Bid, and to annul the RFP process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected Bidder(s) or any obligation to inform the affected Bidder(s) of the grounds for such action.

Bid should be free of over writing. All erasures, correction or addition must be clearly written both in words and figures (if applicable) and attested.

In the event of any assumptions, presumptions, key points of discussion, recommendation or any points of similar nature are submitted along with the Bid, Authority reserves the right to reject the Bid and forfeit the EMD.

If there is any discrepancy in the price bid, it will be dealt as per the following:

- a. If, in the price structure quoted for the required Product and services, there is discrepancy between the unit price and total price (which is obtained by multiplying the unit price by the quantity), only the total price/cost as quoted in the table in the Price Bid Format 1 shall prevail. The unit prices quoted in the Price Bid Format 2 shall be considered only in case of any deviations/modifications in the scope of the work in due course.
- b. If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected.
- c. If there is a discrepancy between words and figures, the in words shall prevail.
- d. If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date up to which the bidder has to send his acceptance and if the bidder does not agree to the decision of Authority, the bid is liable to be disqualified.

3.14 Non-Conforming bids

A bid may be construed as a non-conforming bids and ineligible for consideration:

- a. If it does not comply with the requirements of this RFP.
- b. If a bid does not follow the format requested in this RFP or does not appear to address the particular requirements of the solution.

3.15 Confidentiality

All the material/information shared with the Bidder during the course of this procurement process as well as the subsequent resulting engagement following this process with the successful bidder, shall be treated as confidential and should not be disclosed in any manner to any unauthorized person under any circumstances. The employees of the successful Lead bidder and Consortium members who are proposed to be deployed on the project need to furnish a Non-Disclosure Agreement (NDA).

4 Award of Contract

4.1 Notification of Award

Authority will notify the Successful Bidder via letter / fax /email of its intent of accepting the bid. Within 7 days of receipt of the Letter of Intent (LOI) issued by the Authority, the Successful Bidder shall be required to sign the LOI and return the same to the address specified above as a token of acceptance of the LOI.

4.2 Performance Bank Guarantee

As a condition precedent to execution of the Agreement, the Successful Bidder shall ensure submission of the requisite unconditional irrevocable Bank Guarantee, in the prescribed Format within 15 days of receipt of the LOI as a Performance Bank Guarantee (PBG) for the services to be performed under the resultant Agreement. The Bank Guarantee shall be equivalent to 10 % of the Total Project Cost and must be issued by a Nationalized Bank. The Performance Bank Guarantee shall be valid upto 60 days beyond the term of the resultant Agreement, and shall be renewed and maintained as necessary by the Master systems Integrator (MSI) for the term of the resultant Agreement, and extensions if any.

The Performance Bank Guarantee may be liquidated by the Authority as penalty/liquidated damages resulting from the MSI failure to complete its obligations under the resultant Agreement. The Performance Bank Guarantee shall be returned by Authority to the Bidder within 120 days of the term/expiration of the resultant Agreement after applicable deductions as per the Agreement, if any.

4.3 Signing of Contract

Subsequent to Authority notification to the Successful Bidder by way of an LOI, acceptance of the LOI and submission of the Performance Guarantee, the Successful Bidder shall execute the Agreement with the client. Failure of the Successful Bidder to furnish the Performance Guarantee or execute the Agreement within the prescribed time shall cause the EMD of the Successful Bidder to be liquidated. In such event, client shall negotiate with the next eligible bidder. The Successful Bidder will be liable to indemnify client for any additional cost or expense, incurred on account of failure of the Successful Bidder to execute the Agreement.

Notwithstanding anything to the contrary mentioned above, the Authority at its sole discretion shall have the right to extend the timelines for execution of Agreement on the request of the Successful Bidder, provided the same is bonafide.

The Draft Agreement between the Authority and the Successful Bidder has been given in Volume III: Master Service Agreement (MSA) & Service Level Agreement (SLA) of this RFP.

4.4 Rejection criteria

Besides other conditions and terms highlighted in the RFP Document, bids may be rejected under following circumstances:

A. General rejection criteria

- a) Conditional Bids;
- b) If the information provided by the Bidder is found to be incorrect / misleading / fraudulent at any stage / time during the RFP Evaluation Process;

- c) Any effort on the part of a Bidder to influence the bid evaluation, bid comparison or contract award decisions;
- d) Bids received after the prescribed time & date for receipt of bids;
- e) Bids without signature of person (s) duly authorized on required pages of the bid;
- f) Bids without power of attorney and board resolution letter or its certified true copy.
- g) Bids received without submission of the prescribed Bid document fee and EMD.
- h) Bidder tries to influence the bid evaluation process by unlawful/corrupt/fraudulent means at any point of time during the bid process
- i) In case any bidder submits multiple bids or if common interests are found in two or more bidders, the bidders are likely to be disqualified, unless additional bids/bidders are withdrawn upon notice immediately
- j) If any of the Lead Bidder or Consortium Partner is also consortium member in any other bid, then all the affected bids shall be disqualified

B. Pre-Qualification rejection criteria

- a) Bidders not complying with the Eligibility Criteria given in this RFP ;
- b) Revelation of prices in any form or by any reason before opening the Price Bid;
- c) Failure to furnish all information required by the RFP Document or submission of a Bid not substantially responsive to the RFP Document in any aspect;

C. Technical rejection criteria

- a) Technical Bid containing Price details;
- b) Revelation of Prices in any form or by any reason before opening the Price Bid;
- c) Failure to furnish all information required by the RFP Document or submission of a Bid not substantially responsive to the RFP Document in any aspect;
- d) Bidders not quoting for the complete scope of work as indicated in the RFP Documents, addendum /corrigendum (if any) and any subsequent information given to the Bidder;
- e) Bidders not complying with the Technical and General Terms and conditions as stated in the RFP Documents;
- f) The Bidder not confirming unconditional acceptance of full responsibility of providing services in accordance with the scope of work and Service Level Agreements of this RFP

D. Price Bid Rejection Criteria

- a) Incomplete Price Bid;
- b) Price Bids that do not conform to the RFP 's Price Bid Format;
- c) If there is an arithmetic discrepancy in the Price Bid calculations the RFP Evaluation Committee shall rectify the same. If the Bidder does not accept the correction of the errors, its Bid may be rejected.

4.5 Concessions permissible under statutes

Bidder, while quoting against this RFP, must take cognizance of all concessions permissible, if any, under the statutes and ensure the same is passed on to the Authority, failing which it will have to bear extra cost. In case Bidder does not avail concessional rates of levies like customs duty, excise duty, sales tax, etc. client will not take responsibility towards this. However, the Authority may provide necessary assistance, wherever possible, in this regard.

4.6 Taxes

The Bidders shall fully familiarize themselves about the applicable domestic taxes (such as GST, value added or sales tax, service tax, income taxes, duties, fees, levies etc.) on amounts payable by Client under the Agreement. All such taxes must be included by Bidders in the Price Bid.

4.7 Audit, Access and Reporting

This following details the audit, access and reporting rights and obligations of Authority and/or its nominated agency and the Master systems Integrator and its subcontractors, agents, supplier etc. This Schedule is in addition to, and in derogation of, the audit rights and process provided in the RFP.

A. Audit Notice and Timings

- a. As soon as reasonably practicable after the Effective Date, the Parties shall use their best endeavours to mutually agree to a timetable for routine audits (Other than those mentioned as part of the mandatory requirements for successful delivery and acceptance of the System) during the Project Implementation Phase and the Operation and Maintenance Phase. Authority shall conduct routine audits in accordance with such agreed timetable and shall not be required to give the Master systems Integrator any further notice of carrying out such audits.
- b. Authority may conduct unscheduled audits at its own discretion if it reasonably believes that such unscheduled audits are necessary as a result of a misconduct or an act of fraud by the Master systems Integrator, a security violation, or breach of confidentiality obligations by the Master systems Integrator, provided that the requirement for such an audit is notified in writing to the Master systems Integrator a reasonable period time prior to the audit (taking into account the circumstances giving rise to the reasonable belief) stating the reasons for the requirement.
- c. Except as provided in para a & b above, audits shall be conducted with adequate notice of 2 weeks to the Master systems Integrator.

B. Access

The Master systems Integrator shall provide to Authority and/ or its nominated agency reasonable access to employees, subcontractors, suppliers, agents and third party facilities as detailed in the RFP, documents, records and systems reasonably required for audit and shall provide all such persons with routine assistance in connection with the audits and inspections. Authority or its nominated agency shall have the right to copy and retain copies of any relevant records. The Master systems Integrator shall make every reasonable effort to co-operate with them.

C. Audit Rights

Authority and/or its nominated agency shall have the right to audit and inspect suppliers, agents, subcontractors and third party facilities (as detailed in the RFP), data center, documents, records, procedures and systems relating to the provision of the services, but only to the extent that they relate to the provision of the services, as shall be reasonably necessary to verify:

- a. The security, integrity and availability of all data processed, held or conveyed by the [Master systems Integrator] on behalf of Authority and documentation related thereto;
- b. That the actual level of performance of the services is the same as specified in the SLA;
- c. That the Master systems Integrator has complied with the relevant technical standards, and has adequate internal controls in place; and
- d. The compliance of the Master systems Integrator with any other obligation under the Agreement.
- e. Unless otherwise provided in the RFP, Security audit and implementation audit of the system shall be done once each year, the cost of which shall be borne by Authority.

For the avoidance of doubt the audit rights under this Schedule shall not include access to (i) the Master systems Integrator's profit margins or overheads, (ii) any Confidential Information relating to the Master systems Integrator's employees, or (iii) minutes of its internal Board or Board committee meetings including internal audit, or (iv) such other information of commercial-in-confidence nature which are not relevant to the Services associated with any obligation under the Agreement.

D. Audit rights of Subcontractors, Suppliers and agents

- a. The Master systems Integrator shall use reasonable endeavours to achieve the same audit and access provisions as defined in this Schedule with subcontractors, suppliers and agents who supply labour, services, equipment or materials related to performance of obligations by Master systems Integrator under this Agreement. Without prejudice to its other obligations under the Agreement, the Master systems Integrator shall inform Authority and/or its nominated agency prior to concluding supply/ subcontract agreements of any failure to achieve the same rights of audit or access.
- b. REPORTING: The Master systems Integrator will provide quarterly reports to Authority and/or its nominated agency regarding any specific aspects of the Project and in context of the audit and access information as required by Authority or its nominated agency.

E. Action and review

- a. Any change or amendment to the systems and procedures of the Master systems Integrator, where applicable arising from the audit report shall be agreed within thirty (30) calendar days from the submission of the said report.
- b. Any discrepancies identified by any audit pursuant to this Schedule shall be immediately notified to Authority or its nominated agency and the Master systems Integrator Project Manager who shall determine what action should be taken in respect of such discrepancies in accordance with the terms of this Agreement.

4.8 Records and Information

For the purposes of audit in accordance with this Schedule, the System Integrator shall maintain true and accurate records in connection with the provision of the services and the System

Integrator shall handover all the relevant records and documents upon the termination or expiry of this Agreement.

4.9 Terms of Payment

- a. The request for payment shall be made to the Authority in writing, accompanied by invoices describing, as appropriate, the services performed, and by the required documents submitted pursuant to conditions of the contract and upon fulfilment of all the obligations stipulated in the Contract.
- b. Due payments shall be made promptly by the Authority, generally within sixty (60) days after submission and acceptance of an invoice or request for payment by MSI
- c. The currency or currencies in which payments shall be made to the MSI under this Contract shall be Indian Rupees (INR) only.
- d. All remittance charges shall be borne by the MSI.
- e. In case of disputed items, the disputed amount shall be withheld and shall be paid only after settlement of the dispute.
- f. Any penalties/ liquidated damages, as applicable, for delay and non-performance, as mentioned in this RFP document, shall be deducted from the due payments of the respective milestones.
- g. Taxes, as applicable, shall be deducted / paid, as per the prevalent rules and regulations
- h. Payments to MSI, after successful completion of the target milestones (including specified project deliverables), shall be made as mentioned in Annexure 3 in Volume II of this RFP.

4.10 Right to vary the scope of Work

A. Right to vary the scope of the work at the time of award

The Authority reserves its right to make changes to the scope of the work at the time of execution of the resultant Agreement. If any such change causes an increase or decrease in the cost of, or the time required for the MSI's performance of any part of the work under the Agreement, whether changed or not changed by the order, an equitable adjustment (if required) shall be made in the Contract Value or time schedule, or both, and the Agreement shall accordingly be amended. Any claims by the MSI for adjustment under this Clause must be asserted within thirty (30) days from the date of the SI's receipt of the client changed order.

B. Cost Control

a. Bill of Quantities

The Bill of Quantities will contain the requisite items and their estimated quantities for the project work to be done by the MSI.

b. Changes in the Quantities

- a. The MSI is bound to execute all the supplemental works that are found essential, incidental and inevitable during execution of project works.
- b. The payment of rates for any supplemental items beyond the quantities estimated in the BoQ will be regulated as under:

- i. For quantities in excess of the proposed BoQ, the Authority/PMO or any authorized official/agency nominated by the Authority shall validate the requirements and necessity of variations in quantity or extra items after due diligence, based on site conditions and work contingencies.
- ii. The recommendations of the PMO or any authorized official/ agency nominated by the Authority will be submitted to the Authority for its consideration and necessary approval.
- iii. For variation in quantities excess or less of the proposed quantity in BoQ, the unit rates quoted by the bidder in his Price Bid under Format 2 of Annexure 3 on mutually agreed terms and conditions shall be applicable.

c. Extra (New) Items

- a. Extra items of work shall not vitiate the contract. The reimbursement for extra items shall be validated by the Project Management Office (PMO) and cleared by the Authority. The MSI shall be bound to execute extra items of work as directed by the Authority. The rates for extra items shall be worked out based on the unit rates quoted by the Bidder in Price Bid/as per mutually agreed terms and conditions.
- b. For new items which are beyond the scope of the BoQ, the Project Management Office (PMO) or any authorized official/ agency shall validate the requirements and necessity of such new/extra items after due diligence, based on site conditions and work contingencies.
- c. The bidder shall submit in writing well in advance at least 14 days before the Authority a statement of extra items if any that they need to initiate during the course of project works.

d. Payment Certificates

- a. The Bidder shall submit to the Authority monthly statements of the estimated value of the work completed less the cumulative amount certified previously.
- b. The value of work executed shall be determined by the Authority.
- c. The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.
- d. The Authority may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

4.11 Fraud and corruption

Authority requires that Bidder must observe the highest standards of ethics during the entire process of RFP evaluation and during execution of the contract. In pursuance of this policy, client defines, for the purpose of this provision, the terms set forth as follows:

- a. "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of the Authority in contract executions.
- b. "Fraudulent practice" means a misrepresentation of facts, in order to influence a procurement process or the execution of a contract, to the Authority, and includes collusive practice among bidders (prior to or after Proposal submission) designed to establish

Proposal prices at artificially high or non-competitive levels and to deprive the Authority of the benefits of free and open competition.

- c. "Unfair trade practices" means supply of services different from what is ordered on, or change in the Scope of Work which is given by the Authority in Vol 2 of the RFP.
- d. "Coercive Practices" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the execution of contract.

Authority shall reject the Bid proposal for award of contract, if it determines that the Bidder recommended for award, has been found to have been engaged in corrupt, fraudulent or unfair trade practices. Once the contract is signed and if it is noticed that the MSI has indulged into the Corrupt / Fraudulent / Unfair / Coercive practices, it will be a sufficient ground for client for termination of the contract and initiate black-listing of the MSI.

4.12 Conflict of Interest

- a. A bidder shall not have a conflict of interest that may affect the Selection Process or the Solution delivery (the "Conflict of Interest"). Any Bidder found to have a Conflict of Interest shall be disqualified. In the event of disqualification, Authority shall forfeit and appropriate the EMD, if available, as mutually agreed genuine pre-estimated compensation and damages payable to Authority for, inter alia, the time, cost and effort of Authority including consideration of such Bidder's Bid, without prejudice to any other right or remedy that may be available to Authority hereunder or otherwise.
- b. Authority requires that the bidder provides solutions which at all times hold Authority's interests paramount, avoid conflicts with other assignments or its own interests, and act without any consideration for future work. The bidder shall not accept or engage in any assignment that would be in conflict with its prior or current obligations to other clients, or that may place it in a position of not being able to carry out the assignment in the best interests of Authority.

4.13 Subcontracting

The bidder would not be allowed to sub-contract work, except for the following:

- a. Fiber optic network build, other cabling and fixtures work, and all civil work during implementation
- b. Facility Management Staff at Command Control Center

Sub-contracting shall be allowed only with prior written approval of Authority. However, even if the work is sub-contracted, the sole responsibility of the work shall lie with the lead bidder. The lead bidder shall be held responsible for any delay/error/non-compliance etc. of its sub-contracted vendor. The details of the sub-contracting agreements (if any) between both the parties would be required to be submitted to Authority.

5 Annexure 1 – Formats for Pre-Qualification Bid

5.1 Indicative Check-list for the Documents to be included in the Pre-Qualification Bid

#	Documents to be submitted	Submitted (Y / N)	Documentary Proof (Page No.)
1.	Bid Cover Letter and Particulars of organizations		
2.	Power of attorney along with board resolution to the authorized Signatory of the Bid		
3.	Consortium agreement (if applicable)		
4.	E.M.D. of INR 120,00,000/-		
5.	Bid Document fee of INR 25,000/-		
6.	Particulars of the bidders (As per section 5.3 of Annexure 1)		
7.	Copy of Certificate(s) of Incorporation		
8.	Certificate(s) from the statutory auditor/CA towards average annual Turnover of the entity/entities over the last three (3) financial years (FY 2015-16, 2016-17 and 2017-18)		
9.	Certificate(s) from the statutory auditor/CA towards positive net worth for the last three (3) financial years (FY 2015-16, 2016-17 and 2017-18)		
10.	Certified copies of valid PAN documents		
11.	Copy of GST registration		
12.	<p>The Bidder (or any consortium member) shall have successfully executed at least two (2) projects related to implementation of following scope in last 7 years as of 31st March 2018:</p> <ul style="list-style-type: none"> Surveillance system like CCTV surveillance system. The project should have at least 200 cameras. Value of the each project should be minimum of INR 1.5 Crore 		
13.	<p>The bidder (or any Consortium member) should have experience of setting up or O&M of 2 (two) projects covering Data centre Equipment/ Integrated command and control room /emergency response centre / Security and Surveillance control room/ City wide NOC/Surveillance control room built for Central Government / State Government / Public Sector Units (PSUs) as on 31st March 2018 of value not less than INR 2.5 Crore each.</p> <p>Note: In-house projects for their own corporation executed by the bidder shall not be considered for above purpose</p>		

#	Documents to be submitted	Submitted (Y / N)	Documentary Proof (Page No.)
	Note: In case bidder/prime bidder is a wholly owned subsidiary, the experience of parent company would be considered for eligibility		
14.	Self-declaration by the Bidder, each member of consortium (if applicable) duly signed by the authorized signatory confirming they have not been blacklisted by any Central / State Government Department or Central/State Public Sector Units (PSUs), Government (Central / State / PSU/ World Bank/Asian Development Bank) Organization in India as on the bid submission date in India		
15.	<p>The Sole Bidder or any of Consortium members, should jointly possess any three (3) of the below certifications which are valid at the time of bidding:</p> <ul style="list-style-type: none"> i) ISO 9001:2008/ ISO 9001:2015 for Quality Management System j) ISO 14001:2015 for Environmental Management System k) ISO 20000:2011 for IT Service Management l) ISO 27001:2013 for Information Security Management System v. CMMi Level 3 or above for Capability Maturity Model Integration <p>Note: Each member of the Consortium should possess minimum one (1) of the above valid certification</p>		
16.	Undertaking to open Office in Ludhiana		

5.2 Pre-Qualification Bid Cover Letter

(To be submitted on the letterhead of the Bidder)

To

**Chief Executive Officer,
Ludhiana Smart City Limited,
2nd Floor, Ludhiana Municipal Corporation Office -Zone A,
Mata Rani Chowk, Ludhiana, Punjab**

Subject: Request for Proposal (RFP) for Selection of Master Systems Integrator for Implementation of Integrated Command and Control Center (ICCC) and Smart Components in Ludhiana City

Ref: Tender No :<No> Dated<DD/MM/YYYY>

Sir/ Madam,

Having examined the RFP, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to provide the professional services as required and outlined in the RFP for the Selection of Master systems Integrator for Implementation of Integrated Command and Control Center (ICCC) and Smart Components in Ludhiana City

We attach here to our responses to pre-qualification requirements, Technical and Price Bids as required by the RFP. We confirm that the information contained in these responses or any part thereof, including the exhibits, and other documents and instruments delivered or to be delivered client is true, accurate, verifiable and complete. This response includes all information necessary to ensure that the statements therein do not in whole or in part mislead the department in its short-listing process.

We fully understand and agree to comply that on verification, if any of the information provided here is found to be misleading the selection process, we are liable to be disqualified from the selection process or termination of the contract during the project, if selected to do so.

We agree for unconditional acceptance of all the terms and conditions set out in the RFP Document and also agree to abide by this RFP response for a period of 180 days from the date fixed for bid submission. We hereby declare that in case the contract is awarded to us, we shall submit the performance bank guarantee bond in the form prescribed in the RFP.

We agree that you are not bound to accept any RFP response you may receive. We also agree that you reserve the right in absolute sense to reject all or any of the bids and also all or any of the products/ services specified in the RFP response.

It is hereby confirmed that I/We are entitled to act on behalf of our company/ corporation/ firm/ organization and empowered to sign this document as well as such other documents, which may be required in this connection.

Dated this Day of 2018

(Signature) (In the capacity of)

(Name)

Duly authorized to sign the RFP response for and on behalf of:

(Name and Address of Company) seal/stamp of Bidder

Witness Signature:

Witness Name:

Witness Address:

5.3 Particulars of the bidders (required for Sole/Lead Bidder and all Consortium Members)

#	Description	Details (to be filled by the bidder)
1.	Name of the company	
2.	Title of the Project	
3.	State whether applying as Sole Firm or Lead member of a consortium	
4.	Official address	
5.	Phone No. and Fax No.	
6.	Corporate Headquarters Address	
7.	Phone No. and Fax No.	
8.	Web Site Address	
9.	Details of Company's Registration (Please enclose copy of the company registration document)	
10.	Name of Registration Authority	
11.	Registration Number and Year of Registration	
12.	GST/CST/LST/VAT registration No. (as applicable)	
13.	Permanent Account Number (PAN)	
14.	Company's Revenue for last 3 years (Year wise) as on 31 st March, 2018	
15.	Company's Profitability for the last 3 years (Year wise) as on 31 st March, 2018	
16.	If Lead Member, state the following details of other member firms: i) Name of firm: ii) Details of Company's Registration iii) Official address and principal place of business	

Contact Details of officials for future correspondence regarding the bid process:

Details	Authorized Signatory	Secondary Contact
Name		
Title		
Company Address		
Phone /Fax		
Mobile		
Email		

Financial Turnover:

Name of the Bidder/Consortium member	
--------------------------------------	--

Financial Capability	Overall turnover (in INR crores)	FY 2015-16	
		FY 2016-17	
		FY 2017-18	

5.4 Format for Power of Attorney for signing the Bid

(On INR 100.00 Non judicial Stamp Paper and duly notarized)

KNOW ALL MEN BY THESE PRESENTS,

We _____ (*name of the firm and address of the registered office*) do hereby irrevocably constitute, nominate, appoint and authorize Mr./ Ms. (*name*), _____ son/daughter/wife of _____ and presently residing at _____, who is presently employed with us and holding the position of _____, as our true and lawful attorney (*hereinafter referred to as the "Attorney"*) to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our application for qualification and submission of our bid for the Project proposed by the _____ (the "client") including but not limited to signing and submission of all applications, bids and other documents and writings, participate in pre-applications and other conferences and providing information/ responses to the client, representing us in all matters before the client, signing and execution of all contracts including the Agreement and undertakings consequent to acceptance of our bid, and generally dealing with the client in all matters in connection with or relating to or arising out of our bid for the said Project and/ or upon award thereof to us and/or till the entering into of the Agreement with the client.

AND we hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things done or caused to be done by our said Attorney pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

IN WITNESS WHEREOF WE, _____, THE ABOVE NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS DAY OF _____.

For _____

(Signature, name, designation and address)

Witnesses:

1. (Notarized)

2.

Accepted

(Signature, Name, Title and Address of the Attorney)

Notes:

- *The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.*
- *Wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a board or shareholders' resolution/ power of attorney in favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.*

- *In case the bid is signed by an authorized Director / Partner or Proprietor of the Bidder, a certified copy of the appropriate board resolution / document conveying such authorization to client may be enclosed in lieu of the Power of Attorney.*
- *For document executed and issued overseas, the document shall be legalised by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney has been executed. However, the Power of Attorney provided by Applicants from countries that have signed the Hague Legislation Convention 1961 are not required to be legalised by the Indian Embassy if it carries a conforming Apostille certificate.*

5.5 Declaration of Non-Blacklisting

(On INR 100.00 Non judicial Stamp Paper and duly notarized)

Declaration for Lead Bidder:

Place

Date

To,

**Chief Executive Officer,
Ludhiana Smart City Limited,
2nd Floor, Ludhiana Municipal Corporation Office- Zone A,
Mata Rani Chowk, Ludhiana, Punjab**

Subject: Self Declaration of not been blacklisted in response to the Request for Proposal for Selection of Master systems Integrator for Implementation of Integrated Command and Control Center (ICCC) and Smart Components in Ludhiana City

Ref: RFP No. <<.....>> **dated** <<>>

Dear Sir,

We confirm that our company or firm, _____, is currently not blacklisted in any manner whatsoever by any Government (*Central / State / PSU/ World Bank/Asian Development Bank*) Organization in India in India on any ground including but not limited to indulgence in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice.

(Signature of the Lead Bidder)

Printed Name

Designation

Seal

Date:

Place:

Business Address:

Declaration for Consortium Member:

(On INR 100.00 Non judicial Stamp Paper and duly notarized)

{Place}

{Date}

To,

**Chief Executive Officer,
Ludhiana Smart City Limited,
2nd Floor, Ludhiana Municipal Corporation Office -Zone A,
Mata Rani Chowk, Ludhiana, Punjab**

Subject: Self Declaration of not been blacklisted in response to the Request for Proposal for Selection of Master systems Integrator for Implementation of Integrated Command and Control Center (ICCC) and Smart Components in Ludhiana City

Ref: RFP No. <<.....>> **dated** <<>>

Dear Sir,

We confirm that our company or firm, _____, is currently not blacklisted in any manner whatsoever by any Government (*Central / State / PSU/ World Bank/Asian Development Bank*) Organization in India in India on any ground including but not limited to indulgence in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice.

(Signature of the Consortium Member)

Printed Name

Designation

Seal Date:

Place: Business Address:

5.6 No Deviation Certificate

(To be provided on the Company letter head)

Place

Date

To,

**Chief Executive Officer,
Ludhiana Smart City Limited,
2nd Floor, Ludhiana Municipal Corporation Office- Zone A,
Mata Rani Chowk, Ludhiana, Punjab**

Subject: Self Declaration for No Deviation in response to the Request for Proposal for Selection of Master systems Integrator for Implementation of Integrated Command and Control Center (ICCC) and Smart Components in Ludhiana City

Ref: RFP No. <<.....>> **dated** <<>>

Dear Sir,

This is to certify that our offer is exactly in line with your tender enquiry/RFP (including amendments) no. _____ dated _____. This is to expressly certify that our offer contains no deviation either Technical (including but not limited to Scope of Work, Business Requirements Specification, Functional Requirements Specification, Hardware Specification and Technical Requirements Specification) or Commercial in either direct or indirect form.

(Authorized Signatory)

Printed Name

Designation

Seal

Date:

Place:

Business Address:

5.7 Total Responsibility Certificate

(To be provided on the Company letter head)

Place

Date

To,

**Chief Executive Officer,
Ludhiana Smart City Limited,
2nd Floor, Ludhiana Municipal Corporation Office- Zone A,
Mata Rani Chowk, Ludhiana, Punjab**

Subject: Self Declaration for Total Responsibility in response to the Request for Proposal for Selection of Master systems Integrator for Implementation of Integrated Command and Control Center (ICCC) and Smart Components in Ludhiana City

Ref: RFP No. <<.....>> **dated** <<>>

Dear Sir,

This is to certify that we undertake the total responsibility for the defect free operation of the proposed solutions as per the requirement of the RFP for the duration mentioned in all the volumes of the RFP.

(Authorized Signatory)

Printed Name

Designation

Seal

Date:

Place:

Business Address:

5.8 Self-certificate for Project execution experience (In Bidding Entity's Letter Head)

This is to certify that <Name of the Bidding entity> has been awarded with < Name of the Project > as detailed under:

#	Description	Details (to be filled by the bidder)
	Name of the Project	
	Client's Name, Contact no. and Complete Address	
	Contract Value for the bidder (in Indian Rupees)	
	Current status of the project (Completed/Ongoing)	
	Activities completed by bidding entity as on bid submission date (N.B Only relevant activities as sought in the Criteria to be included)	
	Value of Work completed for which payment has been received from the client	
	Date of Start	
	Date of Completion	

(Authorized Signatory)

Signature:

Name:

Designation:

Bidding entity's name

Address:

Seal:

Date:

6 Annexure 2 – Formats of Technical Bid

6.1 General Instructions for the Technical Bid

Bidders have to submit a very structured and organized Technical Bid, which will be analysed by the Technical/Evaluation Committee for compliances with regards to the requirements of the project. Since the Price Bid shall be opened for only those bidders who qualify the minimum criteria for technical bid evaluation, the quality and completeness of the information submitted by the Bidder will matter a lot while finalizing the technical scores.

Bidder is expected to divide its proposal in following five Sections / Documents:

A. Bidder's Competence to execute the project

This document should bring about the capability of the bidder to execute this project. Some of the required documents are as follows:

- Experience of Bidder in Executing Projects as mentioned in Section 3.6 in required Formats and supporting documents;
- Details of IT, Surveillance Domain Manpower in the firm;
- Other parameters as required

B. Proposed Team for the Project

As specified in the Technical Bid Evaluation Framework, client will give high importance on the quality and competence of the technical manpower proposed for the project. Bidder are required to propose separate resources for different skill-sets (during Design, Project Implementation & Post-Implementation). Following documentation is expected in this section:

- Overall Project Team (for Design, Project Implementation & Maintenance phases)
- Escalation Chart for the entire Project Duration
- Summary Table giving Qualification, Experiences, Certifications, Relevance
- Detail of the proposed resources in the Format attached

C. Technical Solution Proposed for the Project

Broad areas to be covered in the Technical Solution documentation are given below:

1. Describe the proposed Technical Solution in a structured manner. Following points should be captured in the same:
 - i. Clear articulation of the design, technical solution and various components proposed in the bid including make/model of equipment with sizing of infrastructure (including diagrams and calculations wherever applicable) proposed.
 - a. Justifications for selection of the proposed technology over other available options.
 - b. Extent of compliance to technical requirements specified in the scope of work
 - c. Technical Design and clear articulation of benefits to LSCL and other associated project stakeholders w.r.t. various components of the solution offered vis-à-vis other options available.
 - d. Strength of the Bidder to provide services including examples or case-studies of similar solutions deployed for other clients.

- e. Specific emphasis on fulfilling the requirement of analytics and artificial intelligence as specified in the RFP
 - f. Detailed Bill of Material for the solution proposed
- ii. The overall technical solution should be structured in following sub-sections, which are being evaluated by Technical Committee for technical scores:
 - a. City Surveillance System
 - b. Integration of various components with ICCC
 - c. Environmental Sensors
 - d. Variable Message Displays
 - e. Network Connectivity
 - f. Data Center (DC)
 - g. Data Recovery Center (DRC)
 - h. Integrated Command & Control Center (ICCC)
- 2. Provide detailed approach and methodology for Pre-Implementation, Implementation & Post-Implementation periods.
- 3. Clearly articulate the Strategy and Approach & Methodology for installation, Configuration & Operationalization of all the key components of the project
- 4. Approach & Methodology for Management of SLA Requirements specified in the RFP.
- 5. Insight on Implementation of different Best Practices like ITIL, BS7799, Security Policy, etc.
- 6. Detailed Project Plan with timelines, resource allocation, milestones etc. in for supply, installation and commissioning of the physical and IT components for the project.

D. Compliance Table to the Technical requirement /Specifications.

The Volume II of this RFP has specified the benchmark / minimum specifications for various components. Bidder is expected to give a comprehensive compliance sheet for the Product and services proposed by them. The Format to be used for this compliance matrix is as given in Annexure -2.

All above mentioned documents shall have an index page with page numbers specified for all the key information / headers. (Not applicable for last document type).

IMPORTANT NOTE: *The Bidders shall submit the Technical Solution Proposed and compliance to the min. specifications for the Project. The Bids submitted without these documents are liable to be rejected. The Technical/Evaluation Committee's decision shall be final and binding on all.* Format for submitting details on experience of Bidder (in case of Consortium please provide the details of lead member and other members separately)

6.2 Technical Bid Checklist

#	Checklist Item	Compliance (Yes/No)	Page No. and Section No. in the Bid
1	Technical Bid Letter		
2	Credential summary		
3	Project Citations and Self-certifications, as applicable		
4	Detailed proposed solution		
5	Project plan and manpower plan		
6	Proposed CVs		
7	Compliance to Requirement (Technical / Functional Specifications)		
8	Proposed Bill of Material		
9	Manufacturers'/Producers' Authorization Form Anti-Collusion certificate		
10	Non-disclosure agreement		

6.3 Technical Bid Covering Letter

(To be submitted on the letterhead of the Bidder)

To

**Chief Executive Officer,
Ludhiana Smart City Limited,
2nd Floor, Ludhiana Municipal Corporation Office- Zone A,
Mata Rani Chowk, Ludhiana, Punjab**

Subject: Request for Proposal (RFP) for Selection of Master systems Integrator for Implementation of Integrated Command and Control Center (ICCC) and Smart Components in Ludhiana City

Ref: Tender No :<No> Dated<DD/MM/YYYY>

Sir/ Madam,

I (in case of single bidder) or We, <<name of the undersigned Bidder and consortium members>>, having read and examined in detail all the bidding documents in respect of “Request for Proposal (RFP) for Selection of Master systems Integrator for Implementation of Integrated Command and Control Center (ICCC) and Smart Components in Ludhiana City” do hereby propose to provide our services as specified in the bid submitted by us.

It is hereby confirmed that I / We are entitled to act on behalf of our company / corporation / firm / organization and empowered to sign this document as well as such other documents, which may be required in this connection.

We declare that all the services shall be performed strictly in accordance with the RFP documents.

We confirm that the information contained in this response or any part thereof, including its exhibits, and other documents and instruments delivered or to be delivered to Authority, is true, accurate, verifiable and complete. This response includes all information necessary to ensure that the statements therein do not in whole or in part mislead the department in its evaluation process. We also confirm that we shall not attract conflict of interest in principle.

We hereby declare that in case the contract is awarded to us, we shall submit the contract Performance bank guarantee in the form prescribed at Annexure 5 of the RFP Volume I.

We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.

We understand that our bid is binding on us and that you are not bound to accept a Bid you receive. This bid is valid for 180 days after opening of technical bid. We shall extend the validity of the bid if required by Authority.

Thanking you,

Yours sincerely,

(Signature of the Lead Bidder)

Printed Name

Designation

Seal

Date:

Place:

Business Address:

6.4 Curriculum Vitae (CV) of Team Members

1	Name of the Staff																			
2	Current Designation in the Organization																			
3	Proposed Role in the Project																			
4	Proposed Responsibilities in the Project																			
5	Date of Birth																			
6	Education	<ul style="list-style-type: none"> ▪ Degree / Diploma, College, University, Year of Passing ▪ Degree / Diploma, College, University, Year of Passing 																		
7	Summary of Key Training and Certifications																			
8	Language Proficiency	<table border="1"> <thead> <tr> <th>Language</th> <th>Reading</th> <th>Writing</th> <th>Speaking</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Language	Reading	Writing	Speaking														
Language	Reading	Writing	Speaking																	
9	Employment Record (For the total relevant experience)	<table border="1"> <tbody> <tr> <td>From / To:</td> <td></td> </tr> <tr> <td>Employer:</td> <td></td> </tr> <tr> <td>Position Held:</td> <td></td> </tr> <tr> <td>From / To:</td> <td></td> </tr> <tr> <td>Employer:</td> <td></td> </tr> <tr> <td>Position Held:</td> <td></td> </tr> <tr> <td>From / To:</td> <td></td> </tr> <tr> <td>Employer:</td> <td></td> </tr> <tr> <td>Position Held:</td> <td></td> </tr> </tbody> </table>	From / To:		Employer:		Position Held:		From / To:		Employer:		Position Held:		From / To:		Employer:		Position Held:	
From / To:																				
Employer:																				
Position Held:																				
From / To:																				
Employer:																				
Position Held:																				
From / To:																				
Employer:																				
Position Held:																				
10	Total No. of Years of Work Experience																			
11	Total No. of Years of Experience for the Role																			

	proposed	
12	Highlights of relevant assignments handled and significant accomplishments (Use following format for each project)	
	Name of assignment or project:	
	Year:	
	Location:	
	Client:	
	Main project features:	
	Positions held:	
	Activities performed:	

6.5 Credential Summary

S. No.	Project Name	Client Name	Client Type	Project Value (In INR)	Project Components	Documentary evidence provided (Yes or No)	Project Status (Completed or Ongoing or Withheld)
1.							
2.							
3.							
4.							
5.							

- Client type – Indicate whether the client is Government or PSU or Private
- Project Components – Indicate the major project components like application development for security surveillance, command and control center, Maintenance, Hardware procurement and deployment, DC setup and maintenance, Facility management services, provisioning manpower, IT support and maintenance
- Documentary evidence provided – Indicate the documentary evidence provided with the detailed project credential like work order or purchase order or completion certificate or letter of appointment
- Project Status – Completed (date of project completion) or Ongoing (project start date)

6.6 Bidder's Experience- Client Citations

Prime Bidder or Consortium member is requested to furnish the credentials in the following format for both Pre-qualification and Technical criterion. All credentials should be followed by relevant documentary proof.

Name of the Project & Location	
Client's Name and Complete Address	
Narrative description of project	
Contract Value for the bidder (in Indian Rupees)	
Date of Start	
Date of Completion	
Activities undertaken by prime bidder or consortium member	

Note: In case project is on-going a certificate from the Chartered Accountant/Statutory Auditor has to be provided mentioning that 80% of Capex is complete

6.7 Project Plan

A **Detailed Project Plan** covering break-up of each phase into the key activities, along with the start and end dates must be provided as per format given below.

Activities Wise Timeline							
S. No.	Detailed work breakdown structure	Month Wise Program					
		1	2	3	4	5
	Project Plan						
1	Activity 1						
1.1	Sub-Activity 1						
1.2	Sub-Activity 2						

Note: The above activity chart is just for the purpose of illustration. Bidders are requested to provide detailed activity & phase wise timelines for executing the project with details of deliverables & milestones as per their bid.

6.8 Manpower Plan

I. Till Go-Live Implementation

Activities Wise Timeline									
S. No.	Role	Month wise time to be spent by each personnel (in days)						Total	
		1	2	3	4	5		
1.	Project Manager								Onsite
2.	Solution Architect								Onsite
3.	Data / Command Center Expert								Onsite
4.	Network Architect								Onsite
5.	Security Infrastructure Specialist								Onsite
6.	Server Storage/Database Expert								Onsite
7.	GIS Expert								Onsite
8.								Onsite

II. After Go-Live implementation (Operation & Maintenance)

Activities Wise Timeline									
S. No.	Man Power detailed breakup	Month wise time to be spent by each personnel (in days)						Total	
		Year 1	Year 2	Year 3	Year 4	Year 5		
1									Onsite/Offsite
2									Onsite/Offsite
3									Onsite/Offsite
4									Onsite/Offsite
5									Onsite/Offsite
6									Onsite/Offsite
7									Onsite/Offsite
8									Onsite/Offsite
9									Onsite/Offsite

6.9 Format for sharing details of the Resources/Personnel to be deployed

Sl. No.	Name of the resource	Proposed Role	Highest Degree	Certifications (e.g, PMP or ITIL or TOGAF or CCNP etc.)	Relevant Experience related to (In Years)	Please mention 2 relevant projects handled	Total Experience (In Years)
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							

6.10 Format for specifying Compliance to the benchmark / minimum Specifications

Bidder is required to submit compliance to the required benchmark / minimum specifications for various components specified in the RFP

This compliance would be needed in two Formats – 1) Summary table given below for all the items, 2) Compliance tables for each of the line item against the benchmark specifications specified in the Volume II of this RFP.

1) Summary Table of the Compliance of Requirements

#	Component	Unit OF Measurement	Quantity Proposed	Make & Model	Compliance to Required Specifications? (Yes / No)
1.				
2.				
3.				

2) Detailed compliance tables for each of the above mentioned items against the benchmark specifications specified in the Volume II of this RFP

Name of the Equipment:

#	Parameter	Minimum Specification / Requirement mentioned in the RFP	Compliance (Yes / No)	Remarks (If compliance is No) – state clearly if the deviation is having a +ve or -ve impact
1.			
2.			
3.			

6.11 Format for Authorization Letters from OEMs

Date: dd/mm/yyyy

To

**Chief Executive Officer,
Ludhiana Smart City Limited,
2nd Floor, Ludhiana Municipal Corporation Office- Zone A,
Mata Rani Chowk, Ludhiana, Punjab**

Subject: Authorization Letter to M/s. ----- for the participation in the Bid for

Ref: Tender No :<No> Dated<DD/MM/YYYY>

Sir,

We _____, (name and address of the manufacturer) who are established and reputed manufacturers of _____ having factories at _____ (addresses of manufacturing / development locations) do hereby authorize M/s _____ (name and address of the Bidder) to bid, negotiate and conclude the contract with you against the above mentioned RFP for the equipment / software manufactured / developed by us.

We herewith certify that the above mentioned equipment / software products will be supplied to M/s_____ [*name of the bidder*] as part of the subject project and we hereby undertake to support these equipment / software for the duration of minimum 10 years from the date of submission of the bid.

We also confirm that the offered system will not be end of life for min 72 months from the date of bid submission.

Yours faithfully,

For and on behalf of M/s _____(Name of the manufacturer)

Signature :

Name :

Designation :

Address :

Date :

Note:

- 1) This letter of authority should be on the letterhead of the concerned manufacturer and should be signed by an authorized signatory of the manufacturer. The same would need to be submitted by the Bidder as a part of Technical Bid.

6.12 Anti-Collusion Certificate

[Certificate should be provided by Lead Bidder on letter head]

Anti-Collusion Certificate

We hereby certify and confirm that in the preparation and submission of our Bid for Request for Proposal (RFP) for Selection of Master systems Integrator (MSI) for Implementation of Integrated Command & Control Center (ICCC) and Smart Components in Ludhiana City against the RFP Tender No :<No> Dated<DD/MM/YYYY> issued by Authority, We have not acted in concert or in collusion with any other Bidder or other person(s) and also not done any act, deed or thing, which is or could be regarded as anti-competitive. We further confirm that we have not offered nor will offer any illegal gratification in cash or kind to any person or organization in connection with the bid.

(Signature of the Lead Bidder)

Printed Name

Designation

Seal

Date:

Place:

Business Address:

6.13 Overview of Proposed Solution

Structure of Proposed Solution:-

Bidders are required to provide a detailed approach & methodology to execute the entire project. Bidders are advised to comply with the below provided headers/Approach components while detailing out their solution

Sl. No	Item
1	Understanding of the project and conformity to volume 2 : Functional Requirement and High level Architecture of the proposed solution as per requirements of the RFP
2	Proposed deployment architecture for on-premise DC, cloud DC & cloud DR to meet the functionalities as given in RFP and Proposed Network Architecture covering ICCC viewing center, CCC platform (DC Cloud), on-premise DC & cloud DR to meet the functionalities as given in RFP
3	Proposed security solution to safeguard against various threats including hacking attempts, cyber-crime, internal/ external threats etc.
4	Proposed solution for design & development of SOPs and KPIs, also please list down all the SOPs & KPIs identified for the solution.
5	Identification of major risks for the projects and also propose suitable mitigation plan for each of identified risks.
6	Methodology, tools and Technologies to create, monitor & maintain all the SLAs and managing change requests
7	Proposed structure for: <ol style="list-style-type: none"> 1. Project Strategy 2. Project Management 3. Risk Management 4. Resource Plan 5. Project Governance Model
8	What will be the approach towards the scalability, interoperability and modularity features considering the future expansion of the projects? (The response to this question shall be given considering growth of Smart Cities as well as new applications or systems that may be envisaged/developed in future)
9	Approach towards testing and quality
10	How SLAs mentioned under this RFP will be measured? What tools will be used for SLA measurement?
11	Proposed solution ensures the fool proof security to the system from various threats including hacking attempts, internal threats, etc. Please explain in detail approach towards the security of the overall solution from external and internal threats
12	What are the key learning from the similar projects and how do you propose to incorporate them in executing this assignment.
13	Assessment of Manpower deployment, Training and Handholding plan <ul style="list-style-type: none"> • Deployment strategy of Manpower • Contingency management • Mobilization of existing resources and additional resources as required • Training and handholding strategy

6.14 Proposed Bill of Material

The Bidder should provide the proposed Bill of Material (BoM) here. Bidders are required to mention the details of the make/brand and model against each line item, wherever applicable. The bid can be considered non-responsive in the absence of any such details and the bids will be summarily rejected. Once the bidder provides this information in the submitted bid, the bidder cannot change it with any other component / equipment etc. of lower specifications / performance; it can only be upgraded at the time of actual deployment/installation. The Bidder shall quote only one specific make and model from only one specific OEM, for each of the goods. Providing more than one option shall not be allowed

***The list of items mentioned hereunder is indicative. The Bidder shall consider the components and quantity to fulfill the RFP and project requirements in totality. The BoM shall comply with the FRS and TRS given in Vol.2 of the RFP

6.14.1 Video Wall

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A	Video wall at ICCC site					
A.1	Video Wall Cubes 55" Inch DLP LED Backlit Display	16				
A.2	Video Wall Controller with Wall Management Software	1				
A.3	Audio Mixer and speaker system	1				
A.4	Installation and configuration Service Cost	16				
B	Addition Requirement					
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lum psum				

6.14.2 Core Application

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A	CCC Management Application					
A.1	Disaster Recovery (DR) on Cloud	1				
A.2	City Mobile Application with integration in CCC	1				
B	Smart City Application Integration with ICCC platform (With Existing Systems & Planned in Future)					
B.1	Integration with City GIS	1				

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
	Platform for map display					
B.2	Integration with City Surveillance System (Safe City Project Ludhiana)	1				
B.3	Integration with SMART Governance (Multiple Municipal Services)	1				
B.4	Integration with SMART LED Lights (Monitoring & Control, Integration with Existing LED CCMS Systems)	1				
B.5	Integration with VTS (City Bus GPS, PIS Systems, Citizen App, Ticket vending Machines)	1				
B.6	Integration with Integrated Solid Waste Management System (GPS Vehicle, STP SCADA, SMART Bins, Camera based Monitoring)	1				
B.7	Integration with City Water SCADA System	1				
B.8	Integration with City Power SCADA System	1				
B.9	Integration with ITMS	1				
B.10	Integration with SMART Parking	1				
B.11	Integration with City Specific mobile / web Application	1				
B.12	Integration with Public Bike Sharing System / Application	1				
C	Additional Requirement					
C.1	Any other Hardware or Software or integration required to meet the RFP requirements (Bidder to list individual items and provide costing).					

6.14.3 By No of Sensors connected through IoT System (Only Indicative Quantity)

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
1	Vehicle GPS System for Solid Waste and Transport	200				
2	Camera - Surveillance, Traffic and Other Camera	300				
3	Environmental Sensor	10				
4	Parking Sensor	1500				
5	Water Sensor	50				
6	Sewage Sensor	3				
7	Power SCADA Sensor	50				
8	PA Systems	50				
9	Digital VMDs	10				
10	Panic Button and Emergency Call Box	50				
Additional Requirements						
11	Any other aspect required to meet the RFP requirements (Bidder to list individual items and provide costing).					

6.14.4 License Fee for CCC Users , Mobile App Users and Analytics Users

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
1	By No of Command and Control Room Operator Users	16				
2	By No of Command and Control Room Analytics Users	4				
3	By No of Mobile Workforce users	200				
4	Citizen Mobile Application (unlimited user license)	1				
Additional Requirements						
5	Any other aspect required to meet the RFP requirements (Bidder to list individual items and provide costing).					

6.14.5 Hardware

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A	Hardware for ICCC					
A.1	Multi-Function Laser Printer (City Management Room)	2				
A.2	Operator Workstations (City Management Room)	10				
A.3	Manager Workstation (City Management Room)	1				
A.4	Help Desk Team Workstations	2				
A.5	Technical Support Team Workstations	4				
A.6	Contact Centre Workstations	4				
A.7	Security Room Workstations	2				
A.8	War Room Work Station	1				
A.9	IP Phones	16				
A.10	Digital Set top boxes	2				
A.11	Television Set (Meeting room)	1				
B	Additional Requirement					
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lump sum				

6.14.6 Civil Work

No.	BoM Lime Item	Unit Area (sq.ft)	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A	Civil Work (False Floor, Ceiling, Ducting, Access Doors, Painting, Partitioning etc.)					
A.1	City Operation Room	1,000				
A.2	Meeting Room	300				
A.3	Contact Center Room	200				
A.4	Technical Support Room	200				
A.5	War Room separated with glass glazing	400				
A.6	Electrical Room & Utility	200				

No.	BoM Lime Item	Unit Area (sq.ft)	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
	Room					
A.7	Store Room	200				
A.8	Washrooms	150				
A.9	Pantry	150				
A.10	Entrance for Telecom Component (Fiber cabling etc.)	200				
A.11	Conference Room	400				
A.12	Reception Area	200				
A.13	Data Centre	400				
B	Additional Requirement					
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lump sum				

6.14.7 Contact Centre Room

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A	Contact centre room					
A.1	Contact Centre Application and Database	1				
A.2	Installation and Commissioning	1				
B	Additional Requirement					
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lump sum				

6.14.8 War Room

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A	War room					
A.1	55" LED display to present critical information Display	1				
A.2	Over Head Projector	1				
B	Additional Requirement					

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lump sum				

6.14.9 IP PBAX System

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A	IP PABX System					
A.1	IP PABX System	1				
A.2	PRI Modem pair	2				
A.3	SMS Gateway modem	1				
A.4	Operator Client Licenses	4				
A.5	Installation and Commissioning	1				
B	Additional Requirement					
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lump sum				

6.14.10 Furniture

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A	Furniture					
A.1	City Operation Room Operator Desks with 3 Monitors	16				
A.2	City Management Room Manager's Desk	1				
A.3	City Management Room Meeting Table (14 Seater)	1				
A.4	Contact Center Operator Desks	4				
A.5	Security Room Desks	2				
A.6	Help Desk Team	2				
A.7	Technical Support Team Desks	4				
A.8	War Room Furniture (10 Seater)	1				

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A.9	High Back Executive Chair	53				
B	Addition Requirement					
B.1	Any other furniture required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lump sum				

6.14.11 Building Utilities

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A	Building Utilities					
A.1	DG Set (IT Load Only)	1				
A.2	IBMS	1				
A.3	Precision Air Conditioning for DC	2				
A.4	Air Conditioning for City Management Room	6				
A.5	Comfort Air Conditioning	8				
A.6	UPS with Battery backup Of 1 hour	1				
A.7	Access Control System	1				
A.8	Electrical and power cabling	1				
A.9	Lighting	1				
A.10	LAN and CAT-6 Cabling (in meters)	lump sum				
A.11	Public Address System	1				
A.12	Fire & Smoke Detection System	1				
A.13	WiFi for ICCC Building	1				
B	Addition Requirement					
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lump sum				

6.14.12 City Management Center – Surveillance System

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A	CCC Surveillance System					
A.1	PTZ Cameras	4				
A.2	Fixed Dome Cameras	6				
A.3	Building Surveillance Application & Integration with IBMS)	1				
A.4	Installation and Commissioning	10				
B	Additional Requirement					
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lump sum				

6.14.13 Services

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A	Services					
A.1	DTH Subscription	1				
A.2	SMS Gateway	1				
A.3	Consumables	1				
B	Additional Requirement					
B.1	Any other services required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lump sum				

6.14.14 Data Centre

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A	Hardware components at Data Centre					
A.1	Network Racks	2				
A.2	Server Racks	2				
A.3	Servers	2				
A.4	Firewall with IPS	2				
A.5	Network Switch	2				

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A.6	Storage	1				
A.7	SAN Switch	1				
A.8	Core Routers	2				
A.9	Core Switch	2				
A.10	L3 Switch (Copper + OFC)	2				
A.11	L2 Switch (24 Port)	2				
A.12	Internet Routers	2				
A.13	Server Load Balancer (SLB) + Link Load Balancer (LLB) + Web Application Firewall(WAF) Appliance + DDOS Protection	2				
A.14	Tape Drive	1				
A.15	DR on Cloud for Local Applications	1				
B	Software components at Data Centre					
B.1	EMS Application	1				
B.2	Backup Software	1				
B.3	Virtualization / VMWare	1				
B.4	Centralized Antivirus S/w	1				
B.5	CAL licenses for Domain setup	1				
C	Additional Requirement					
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lump sum				

6.14.15 Technical Support during Implementation Phase (9 Months)

#	BoM	Qty.	Modification Proposed	Full compliance with RFP
1	Project Manager	1		
2	Solution Architect	1		
3	Data / Command Center Expert	1		
4	Network Architect	1		
5	Security Infrastructure Specialist	1		

#	BoM	Qty.	Modification Proposed	Full compliance with RFP
6	Server Storage/Database Expert	1		
7	GIS Expert	1		
8	IBMS Expert	1		
9	Electrical Engineer / Specialist	1		
10	Field Support Staff	6		
11	Non IT experts	3		
12	Electrical and Plumbing Resource	1		
13	Security Staff	3		
14	Housekeeping staff	1		
15	Admin and support	1		
Additional Requirement				
16	Any other resources required to meet the RFP requirements (Bidder to list individual items and provide costing).			

6.14.16 City Management Center - Technical Support during O & M Phase

#	BoM	Qty.	Modification Proposed	Full compliance with RFP
1	Project Manager	1		
2	Solution Architect	1		
3	Data / Command Center Expert	1		
4	Network Architect	1		
5	Security Infrastructure Specialist	1		
6	Server Storage/Database Expert	1		
7	GIS Expert	1		
8	IBMS Expert	1		
9	Application Analyst	1		
10	Contact Center Manpower	12		
11	Field Support Staff	3		
12	Operator	48		
Additional Requirements				
13	Any other resources required to meet the RFP requirements (Bidder to list individual items and provide costing).			

6.14.17 City Management Center – Non IT Support

#	BoM	Qty.	Modification Proposed	Full compliance with RFP
1	Non IT experts	1		
2	Electrical and Plumbing team	3		
3	Security Staff	3		
4	Housekeeping staff	3		
5	Admin and support	1		
Additional Requirements				
	Any other resources required to meet the RFP requirements (Bidder to list individual items and provide costing).			

6.14.18 Network Bandwidth

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A	City network backbone					
A.1	Bandwidth Cost (For Edge Equipment)	1				
A.2	Primary Internet Bandwidth (For DC to Safe City)	1				
A.3	Primary Internet Bandwidth (For DC to DR)	1				
A.4	Secondary Internet Bandwidth (For DC to Safe City)	1				
A.5	Secondary Internet Bandwidth (For DC to DR)	1				
B	Additional Requirement					
B.1	Any other Bandwidth required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lump sum				

6.14.19 Field Components

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A	Hardware					
A.1	Environmental Sensors with complete accessories, mountings and enclosure setup	10				

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
A.2	Emergency Call Box & Panic Button with complete hardware and accessories	50				
A.3	Public Addressal System with complete mount and accessories	50				
A.4	Digital VMD with VMD Controller and complete hardware and accessories	10				
A.5	Mounting structure for VMS including UPS	10				
A.6	Installation & Commissioning charges with passive components including Patch Panel, LIU, OFC, CAT 6 Cable, Power Cable, Patch Cords, Pipes & Labour Charges, etc. for Environmental Sensors, Emergency Call Box & Panic Button and Digital VMD (Lumpsum)	1				
A.7	Body Camera	50				
A.8	Body Camera Docking Station	10				
A.9	PTZ Cameras with complete mounting accessories	100				
A.10	Box Cameras with complete mounting accessories	200				
A.11	Galvanized Poles with Civil Foundation & Earthing	100				
A.12	Online UPS with Batteries	100				
A.13	Industrial Grade Network PoE+ switches with suitable ports	100				
A.14	L3 Switch	10				
A.15	Junction Box With Electrical Cable, Patch Cords, CAT-6 Cable and other required accessories (Pole mounted Powder coated CRCA sheet/ stainless steel, IP66, Fans,	100				

No.	BoM Lime Item	Total Qty.	Modification Proposed	Make /Brand	Model Details	Full compliance with RFP
	Rain Canopy, Cable entry with glands), etc.					
A.16	Installation & Commissioning including Labour Charges, etc.	100				
A.17	Electric Meter Connection	100				
A.18	Electric Meter running cost for one year	100				
B	Software					
B.1	Environmental Sensors Software	1				
B.2	Public Addressal System & Emergency Call Box (ECB) Software	1				
B.3	VMS Software	1				
B.4	Video Management System for recoding and viewing all types of proposed camera at DC	1				
B.5	Video Analytics Software for proposed cameras at DC	1				
C	Additional Requirement					
C.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lump sum				

6.14.20 Operations Charges

#	BoM	Qty.	Modification Proposed	Full compliance with RFP
1	Running cost of DG Set	1		
2	Electricity Charges	1		
3	Water Charges	1		

6.14.21 Capacity Building

#	BoM	Qty.	Modification Proposed	Full compliance with RFP
1	Capacity Building & Training	400		

6.15 Details of additional components mentioned as “Others” in the BoQ

The Bidder may provide the additional line items in the proposed Bill of Material (BoM), in addition to the line items mentioned in the financial format in this RFP. Bidders are required to mention the details of the make/brand and model against each line item, wherever applicable. The bid can be considered non-responsive in the absence of such details. Once the bidder provides this information in the submitted bid, the bidder cannot change it with any other component / equipment etc. of lower specifications / performance; it can only be upgraded at the time of actual deployment/ installation. The Bidder shall quote only one specific make and model from only one specific OEM, for each of the goods. Providing more than one option shall not be allowed.

6.15.1 Additional Bill of Quantity

Sl. No.	Description	UoM	Qty
1	Item 1		
2	Item 2		
3	Item 3		
4	Item 4		
5	Item 5		
6	Item 6		
	.		
	.		

Note:

The Bidder shall specify all additional line items proposed by him in the above specified format.

However, in the e-procurement portal, the total price for all additional items proposed shall be indicated in the last line items designated as “Others”.

The successful bidder shall provide the price break-up for all such additional items proposed by him, before conclusion of contract agreement.

7 Annexure 3 – Formats of Price Bid

7.1 Price Bid - Format 1

To,
Chief Executive Officer,
Ludhiana Smart City Limited,
2nd Floor, Ludhiana Municipal Corporation Office- Zone A,
Mata Rani Chowk, Ludhiana, Punjab

Subject: Request for Proposal (RFP) for Selection of Master systems Integrator for Implementation of Integrated Command and Control Center (ICCC) and Smart Components in Ludhiana City

Ref: Tender No : <No> Dated<DD/MM/YYYY>

We, the undersigned Bidder, having read and examined in detail all the RFP Documents in respect of Selection of Master systems Integrator for Implementation of Integrated Command and Control Center (ICCC) and Smart Components in Ludhiana City do hereby propose to provide services as specified in the RFP Documents number Tender No :<No> Dated<DD/MM/YYYY>

We offer our Price Bid as mentioned below:

#	Description	Value in INR (Inclusive of all applicable taxes / charges etc.)
A	Total Project Cost (Towards the Design, supply, Implementation, operation and maintenance of the Project, inclusive of 4 years O&M of the Project from the Phase wise Go-Live as detailed in the Project scope)	
	Project Cost Quoted in Words	

1. PRICE AND VALIDITY

- All the prices mentioned by us in this Price Bid are in accordance with the terms as specified in the RFP Documents. All the prices and other terms and conditions of this RFP are valid for a period of 180 calendar days from the date of submission of the Bid.
- We hereby confirm that our prices include all taxes, charges, levies etc. to be payable to various govt./non-govt./local authorities.
- We understand and agree that the finalization/selection of the System Integrator is solely on the basis of the **least cost based selection, subject to fulfilment of eligibility criteria.**

2. UNIT RATES

We also understand and agree that the unit rates of various components as per Format 2 of the Price Bid also should be quoted, without which the bid is liable to be rejected by the technical/evaluation committee. The decision of the committee shall be final and binding on all in this regard.

We have indicated in the Format 2 of the Price Bid, the unit rates for the purpose of payment as well as for price adjustment in case of any increase to / decrease from the scope of work or quantities under the contract. We understand and agree that the unit rates will not be considered for evaluation, finalization/selection of the System Integrator under this RFP.

3. QUALIFYING DATA

We confirm having submitted the information as required by you in your Instruction to Bidder. In case you require any other further information/documentary proof in this regard before evaluation of our RFP, we agree to furnish the same in time to your satisfaction.

4. BID PRICE

We declare that our Bid Price is for the entire scope of the work as specified in the RFP Document. The relevant unit prices are indicated in the Format 2 of the Price Bid.

5. CONTRACT PERFORMANCE BANK GUARANTEE

We hereby declare that in case the contract is awarded to us, we shall submit the contract Performance Bank Guarantee in the form prescribed in the RFP.

We hereby declare that our RFP is made in good faith, without collusion or fraud and the information contained in the RFP is true and correct to the best of our knowledge and belief.

We understand that our response to the RFP is binding on us and that you are not bound to accept a RFP you receive.

Thanking you,

Yours faithfully,

(Signature of the Bidder)

Name

Designation

Seal.

Date:

Place:

Business Address:

7.2 Price Bid - Format 2 – Unit Rates

Note: Please note that all unit rates quoted as per this Format 2 is for the sole purpose of price adjustment in case of any increase to/decrease from the scope of work or quantities under the contract. These rates will not be considered for evaluation or finalisation of the bid. However, based on the market trends, Authority retains the right to negotiate this rate for future requirement.

The components and quantities mentioned in the below table is indicative only and bidder shall propose the systems/components as per their proposed solution design to meet requirements of the RFP focusing on the outcome, future scalability, security, reliability and adherence to specified SLA under this RFP.

7.2.2 Price Component for Capex – Unit Rates

7.2.2.1 Video Wall

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
A	Video wall at ICCC site					
A.1	Video Wall Cubes 55" Inch DLP LED Backlit Display	Number	16			
A.2	Video Wall Controller with Wall Management Software	Number	1			
A.3	Audio Mixer and Speaker System	Number	1			
A.4	Installation and configuration Service Cost	Number	16			
B	Addition Requirement					
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump Sum			

7.2.2.2 Core Application

No.	BoM Lime Item	Unit of Measurement	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees) 7 = (5+6) * 4
1	2	3	4	5	6	7 = (5+6) * 4
A	CCC Management Application					
A.1	Disaster Recovery (DR) on Cloud	Number	1			
A.2	City Mobile Application with integration in CCC	Number	1			
B	Smart City Application Integration with ICCC platform (With Existing Systems & Planned in Future)					
B.1	Integration with City GIS Platform for map display	Number	1			
B.2	Integration with City Surveillance System (Ludhiana Safe City Project)	Number	1			
B.3	Integration with SMART Governance (Multiple Municipal Services)	Number	1			
B.4	Integration with SMART LED Lights (Monitoring & Control, Integration with Existing LED CCMS Systems)	Number	1			
B.5	Integration with VTS (City Bus GPS, PIS Systems, Citizen App, Ticket vending Machines)	Number	1			
B.6	Integration with Integrated Solid Waste Management System (GPS Vehicle, STP SCADA, SMART Bins, Camera based Monitoring)	Number	1			
B.7	Integration with City Water SCADA System	Number	1			
B.8	Integration with City Power SCADA System	Number	1			
B.9	Integration with ITMS	Number	1			
B.10	Integration with SMART Parking	Number	1			
B.11	Integration with City Specific mobile / web	Number	1			

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
	Application					
B.12	Integration with Public Bike Sharing System / Application	Number	1			
C	Additional Requirement					
C.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump Sum			

7.2.2.3 Hardware

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
A	Hardware for ICCC					
A.1	Multi-Function Laser Printer (City Management Room)	Number	2			
A.2	Operator Workstations (City Management Room)	Number	10			
A.3	Manager Workstation (City Management Room)	Number	1			
A.4	Help Desk Team workstations	Number	2			
A.5	Technical Support team workstations	Number	4			
A.6	Contact Centre Workstations	Number	4			
A.7	Security Room Workstations	Number	2			
A.8	War Room Work Station	Number	1			
A.9	IP Phones	Number	16			
A.10	Digital Set top boxes	Number	2			
A.11	Television Set (Meeting room)	Number	1			

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
B	Additional Requirement					
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump sum			

7.2.2.4 Civil Work

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty. (Sq. ft.)	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
A	Civil Work (False Floor, Ceiling, Ducting, Access Doors, Painting, Partitioning etc.)					
A.1	City Operation Room	Area	1,000			
A.2	Meeting Room	Area	300			
A.3	Contact Center Room	Area	200			
A.4	Technical Support Room	Area	200			
A.5	War Room separated with glass glazing	Area	400			
A.6	Electrical Room & Utility Room	Area	200			
A.7	Store Room	Area	200			
A.8	Washrooms	Area	150			
A.9	Pantry	Area	150			
A.10	Entrance for telecom component (Fiber cabling etc.)	Area	200			
A.11	Conference Room	Area	400			
A.12	Reception Area	Area	200			
A.13	Data Centre	Area	400			
B	Additional Requirement					
B.1	Any other aspect required to meet the RFP requirements (Bidder to list individual items and	Lot	Lump Sum			

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty. (Sq. ft.)	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
	provide costing).					

7.2.2.5 Contact Centre Room

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
A	Contact centre room					
A.1	Contact Centre Application and Database	Number	1			
A.2	Installation and Commissioning	Number	1			
B	Additional Requirement					
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump Sum			

7.2.2.6 War Room

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
A	War room					
A.1	55" LED display to present critical information Display	Number	1			
A.2	Over Head Projector	Number	1			
B	Additional Requirement					
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and	Lot	Lump Sum			

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
	provide costing).					

7.2.2.7 IP PBAX System

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
A	IP PBAX System					
A.1	IP PABX System	Number	1			
A.2	PRI Modem pair	Number	2			
A.3	SMS Gateway Modem	Number	1			
A.4	Operator Client Licenses	Number	4			
A.5	Installation and Commissioning	Number	1			
B	Additional Requirement					
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump Sum			

7.2.2.8 Furniture

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
A	Furniture					
A.1	City Operation Room Operator Desks with 3 Monitors	Number	16			
A.2	City Management Room Manager's Desk	Number	1			
A.3	City Management Room meeting table (14 Seater)	Number	1			

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
A.4	Contact Center Operator Desks	Number	4			
A.5	Security Room Desks	Number	2			
A.6	Help Desk Team	Number	2			
A.7	Technical Support Team Desks	Number	4			
A.8	War Room Furniture (10 Seater)	Number	1			
A.9	High back executive chair	Number	53			
B	Addition Requirement					
B.1	Any other furniture required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump sum			

7.2.2.9 Building Utilities

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
A	Building Utilities					
A.1	DG Set (IT Load Only)	Number	1			
A.2	IBMS	Number	1			
A.3	Precision Air Conditioning for DC	Number	2			
A.4	Air Conditioning for City Management Room	Number	6			
A.5	Comfort Air Conditioning	Number	8			
A.6	UPS with Battery backup of 1 hour	Number	1			
A.7	Access Control System	Number	1			
A.8	Electrical and power cabling	Number	1			

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
A.9	Lighting	Number	1			
A.10	LAN and CAT-6 cabling (in meters)	Number	30000			
A.11	Public Address System	Number	1			
A.12	Fire & Smoke Detection System	Number	1			
A.13	WiFi for ICCC Building	Number	1			
B	Addition Requirement					
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump sum			

7.2.2.10 City Management Center – Surveillance System

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
A	CCC Surveillance System					
A.1	PTZ Cameras	Number	4			
A.2	Fixed Dome Cameras	Number	6			
A.3	Building Surveillance Application and Integration with IBMS	Number	1			
A.4	Installation and Commissioning	Number	10			
B	Additional Requirement					
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump Sum			

7.2.2.11 Services

No.	BoM Lime Item	Unit of Measurement	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
A	Services					
A.1	DTH Subscription	Number	1			
A.2	SMS Gateway	Number	1			
A.3	Consumables	Number	1			
B	Additional Requirement					
B.1	Any other Services required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump Sum			

7.2.2.12 Data Centre

No.	BoM Lime Item	Unit of Measurement	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
A	Hardware components at Data Centre					
A.1	Network Racks	Number	2			
A.2	Server Racks	Number	2			
A.3	Servers	Number	2			
A.4	Firewall with IPS	Number	2			
A.5	Network Switch	Number	2			
A.6	Storage	Number	1			
A.7	SAN Switch	Number	1			
A.8	Core Routers	Number	2			
A.9	Core Switch	Number	2			
A.10	L3 Switch (Copper + OFC)	Number	2			
A.11	L2 Switch (24 Port)	Number	2			
A.12	Internet Routers	Number	2			
A.13	Server Load Balancer (SLB) + Link Load	Number	2			

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
	Balancer (LLB) + Web Application Firewall(WAF) Appliance + DDOS Protection					
A.14	Tape Drive	Number	1			
A.15	DR on Cloud for Local Applications	Number	1			
B	Software Components at Data Centre					
B.1	EMS Application	Number	1			
B.2	Backup Software	Number	1			
B.3	Virtualization / VMWare	Number	1			
B.4	Centralized Antivirus S/w	Number	1			
B.5	CAL licenses for Domain setup	Number	1			
B	Additional Requirement					
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump sum			

7.2.2.13 Field Components

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
A	Hardware					
A.1	Environmental Sensors with complete accessories, mountings and enclosure setup	Number	10			
A.2	Emergency Call Box & Panic Button with complete hardware and accessories	Number	50			
A.3	Public Addressal System	Number	50			

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
	with complete mount and accessories					
A.4	Digital VMD with VMD Controller and complete hardware and accessories	Number	10			
A.5	Mounting structure for VMS including UPS	Number	10			
A.6	Installation & Commissioning charges with passive components including Patch Panel, LIU, OFC, CAT 6 Cable, Power Cable, Patch Cords, Pipes & Labour Charges, etc. for Environmental Sensors, Emergency Call Box & Panic Button and Digital VMD (Lumpsum)	Number	1			
A.7	Body Camera	Number	50			
A.8	Body Camera Docking Station	Number	10			
A.9	PTZ Cameras with complete mounting accessories	Number	100			
A.10	Box Cameras with complete mounting accessories	Number	200			
A.11	Galvanized Poles with Civil Foundation & Earthing	Number	100			
A.12	Online UPS with Batteries	Number	100			
A.13	Industrial Grade Network PoE+ switches with required ports	Number	100			
A.14	L3 Switch	Number	10			
A.15	Junction Box With Electrical Cable, Patch Cords, CAT-6 Cable and other required accessories (Pole	Number	100			

No.	BoM Lime Item	Unit of Measurem ent.	Total Qty.	Unit base Price (In INR)	All taxes, levies, duties etc. as applicable (In Indian Rupees) (Per Unit)	Total Price including All taxes, levies, duties, etc.as applicable (In Indian Rupees)
1	2	3	4	5	6	7 = (5+6) * 4
	mounted Powder coated CRCA sheet/ stainless steel,IP66 , Fans, Rain Canopy, Cable entry with glands), etc.					
A.16	Installation & Commissioning including Labour Charges, etc.	Number	100			
A.17	Electric Meter Connection	Number	100			
A.18	Electric Meter running cost for one year	Number	100			
B	Software					
B.1	Environmental Sensors Software	Number	1			
B.2	Public Addressal System & Emergency Call Box (ECB) Software	Number	1			
B.3	VMS Software	Number	1			
B.4	Video Management System for recoding and viewing all types of proposed camera at DC	Number	1			
B.5	Video Analytics Software for proposed cameras at DC	Number	1			
C	Additional Requirement					
C.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump sum			

7.2.3 Price Component for Opex – Unit Rates

7.2.3.1 Technical Support during Implementation Phase (9 Months)

#	Resource	Qty.	Required Person Month	Person Month Cost	Total
1	2	3	4	5	6 = 4*5
1	Project Manager	1	9		
2	Solution Architect	1	5		
3	Data / Command Center Expert	1	5		
4	Network Architect	1	5		
5	Security Infrastructure Specialist	1	5		
6	Server Storage/Database Expert	1	6		
7	GIS Expert	1	4		
8	IBMS Expert	1	5		
9	Electrical Engineer / Specialist	1	5		
10	Field Support Staff	6	54		
11	Non IT experts	3	27		
12	Electrical and Plumbing Resource	1	8		
13	Security Staff	3	27		
14	Housekeeping staff	1	9		
15	Admin and support	1	9		

7.2.3.2 City Management Center - Technical Support during O & M Phase

#	Resource	Qty.	Required Person Month	Person Month Cost	Total
1	2	3	4	5	6 = 4*5
1	Project Manager	1	48		
2	Solution Architect	1	48		
3	Data / Command Center Expert	1	48		
4	Network Architect	1	48		
5	Security Infrastructure Specialist	1	48		
6	Server Storage/Database Expert	1	48		

#	Resource	Qty.	Required Person Month	Person Month Cost	Total
1	2	3	4	5	6 = 4*5
7	GIS Expert	1	48		
8	IBMS Expert	1	48		
9	Application Analyst	1	48		
10	Contact Center Manpower	12	48		
11	Field Support Staff	3	48		
12	Operator	48	48		

7.2.3.3 City Management Center – Non IT Support

#	Resource	Qty.	Year 1	Year 2	Year 3	Year 4	Total
1	2	3	4	5	6	7	8 = 4+5+6+7
1	Non IT experts	1					
2	Electrical and Plumbing team	3					
3	Security Staff	3					
4	Housekeeping staff	3					
5	Admin and support	1					

7.2.3.4 Video Wall

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
A	Video wall at ICCC site							
A.1	Video Wall Cubes 55" Inch DLP LED Backlit Display	Number	16					
A.2	Video Wall Controller with Wall Management Software	Number	1					
A.3	Audio Mixer and speaker system	Number	1					
B	Addition Requirement							
B.1	Any other Hardware or Software required	Lot	Lump Sum					

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
	to meet the RFP requirements (Bidder to list individual items and provide costing).							

7.2.3.5 Core Application

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
A	CCC Management							
A.1	Disaster Recovery (DR) on Cloud	Number	1					
B	By No of Sensors connected through IoT System (Only Indicative Quantity)							
B.1	Vehicle GPS System for Solid Waste and Transport	Number	200					
B.2	Camera - Surveillance, Traffic and Other Camera	Number	300					
B.3	Environmental Sensor	Number	10					
B.4	Parking Sensor	Number	1500					
B.5	Water Sensor	Number	50					
B.6	Sewage Sensor	Number	3					
B.7	Power SCADA Sensor	Number	50					
B.8	PA Systems	Number	50					
B.9	Digital VMDs	Number	10					
B.10	Panic Button and Emergency Call Box	Number	50					
C	License Fee for CCC Users , Mobile App Users and Analytics Users							
C.1	By No of Command and Control Room Operator Users	Number	16					
C.2	By No of Command and Control Room Analytics Users	Number	4					
C.3	By No of Mobile Workforce users	Number	400					
C.4	Citizen Mobile	Number	1					

No.	BoM Lime Item	Unit of Measure ment.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
	Application (unlimited user license)							

7.2.3.6 Hardware

No.	BoM Lime Item	Unit of Measure ment.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
A	Hardware for ICCC							
A.1	Multi-Function Laser Printer (City Management Room)	Number	2					
A.2	Operator Workstations (City Management Room)	Number	10					
A.3	Manager Workstation (City Management Room)	Number	1					
A.4	Help Desk Team Workstations	Number	2					
A.5	Technical Support Team workstations	Number	4					
A.6	Contact Centre Workstations	Number	4					
A.7	Security Room Workstations	Number	2					
A.8	War Room Work Station	Number	1					
A.9	IP Phones	Number	16					
A.10	Digital Set top boxes	Number	2					
A.11	Television Set (Meeting room)	Number	1					
B	Additional Requirement							
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump sum					

7.2.3.7 Civil Work

No.	BoM Lime Item	Unit of Measure ment.	Total Qty. (Sq. ft)	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
-----	---------------	-----------------------	---------------------	--------	--------	--------	--------	---

1	2	3	4	5	6	7	8	9 = 5+6+7+8
A	Civil Work (False Floor, Ceiling, Ducting, Access Doors, Painting, Partitioning etc.)							
A.1	City Operation Room	Area	1,000					
A.2	Meeting Room	Area	300					
A.3	Contact Center Room	Area	200					
A.4	Technical Support Room	Area	200					
A.5	War Room separated with glass glazing	Area	400					
A.6	Electrical Room & Utility Room	Area	200					
A.7	Store room	Area	200					
A.8	Washrooms	Area	150					
A.9	Pantry	Area	150					
A.10	Entrance for telecom component (Fiber cabling etc.)	Area	200					
A.11	Conference Room	Area	400					
A.12	Reception Area	Area	200					
A.13	Data Centre	Area	400					
B	Additional Requirement							
B.1	Any other aspect required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump Sum					

7.2.3.8 Contact Centre Room

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
A	Contact centre room							
A.1	Contact Centre Application and Database	Number	1					
B	Additional Requirement							
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump Sum					

7.2.3.9 War Room

No.	BoM Lime Item	Unit of Measure ment.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
A	War room							
A.1	55" LED display to present critical information Display	Number	1					
A.2	Over Head Projector	Number	1					
B	Additional Requirement							
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump Sum					

7.2.3.10 IP PBAX System

No.	BoM Lime Item	Unit of Measure ment.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
A	IP PBAX System							
A.1	IP PABX System	Number	1					
A.2	PRI Modem Pair	Number	2					
A.3	SMS Gateway Modem	Number	1					
A.4	Operator client licenses	Number	4					
B	Additional Requirement							
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump Sum					

7.2.3.11 Furniture

No.	BoM Lime Item	Unit of Measure ment.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
A	Furniture							
A.1	City Operation Room Operator Desks with 3 Monitors	Number	16					
A.2	City Management Room Manager's Desk	Number	1					

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
A.3	City Management Room meeting table (14 Seater)	Number	1					
A.4	Contact Center Operator Desks	Number	4					
A.5	Security Room Desks	Number	2					
A.6	Help Desk Team	Number	2					
A.7	Technical Support Team Desks	Number	4					
A.8	War Room Furniture (10 Seater)	Number	1					
A.9	High Back Executive Chair	Number	53					
B	Addition Requirement							
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump sum					

7.2.3.12 Building Utilities

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
A	Building Utilities							
A.1	DG Set (IT Load Only)	Number	1					
A.2	IBMS	Number	1					
A.3	Precision Air Conditioning for DC	Number	2					
A.4	Air Conditioning for City Management Room	Number	6					
A.5	Comfort Air Conditioning	Number	8					
A.6	UPS with Battery backup of 1 hour	Number	1					
A.7	Access Control System	Number	1					
A.8	Electrical and power cabling	Number	1					
A.9	Lighting	Number	1					
A.10	LAN and CAT-6 cabling (in meters)	Number	30000					

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
A.11	Public Address System	Number	1					
A.12	Fire & Smoke Detection System	Number	1					
A.13	WiFi for ICCC Building	Number	1					
B	Addition Requirement							
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump sum					

7.2.3.13 City Management Center – Surveillance System

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
A	CCC Surveillance System							
A.1	PTZ Cameras	Number	4					
A.2	Fixed Dome Cameras	Number	6					
A.3	Application	Number	1					
B	Additional Requirement							
B.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump Sum					

7.2.3.14 Services

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
A	Other Services							
A.1	DTH Subscription	Number	1					
A.2	SMS Gateway	Number	1					
A.3	Consumables	Number	1					
B	Additional Requirement							
B.1	Any other Hardware or Software required to meet the RFP	Lot	Lump Sum					

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
	requirements (Bidder to list individual items and provide costing).							

7.2.3.15 Data Centre

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
A	Hardware components at Data Centre							
A.1	Network Racks	Number	2					
A.2	Server Racks	Number	2					
A.3	Servers	Number	2					
A.4	Firewall with IPS	Number	2					
A.5	Network Switch	Number	2					
A.6	Storage	Number	1					
A.7	SAN Switch	Number	1					
A.8	Core Routers	Number	2					
A.9	Core Switch	Number	2					
A.10	L3 Switch (Copper + OFC)	Number	2					
A.11	L2 Switch (24 Port)	Number	2					
A.12	Internet Routers	Number	2					
A.13	Server Load Balancer (SLB) + Link Load Balancer (LLB) + Web Application Firewall(WAF) Appliance + DDOS Protection	Number	2					
A.14	Tape Drive	Number	1					
A.15	DR on Cloud for Local Applications	Number	1					
B	Software							
B.1	EMS Application	Number	1					
B.2	Backup Software	Number	1					
B.3	Virtualization / VMWare	Number	1					
B.4	Centralized Antivirus S/w	Number	1					
B.5	CAL licenses for Domain setup	Number	1					

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
C	Additional Requirement							
C.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump sum					

7.2.3.16 Network Bandwidth

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
A	City network backbone							
A.1	Internet Bandwidth (Edge Equipment to DC) (total 1680 Mbps)	Number	1					
A.2	Primary Internet Bandwidth (For DC to Safe City) (1 Gbps)	Number	1					
A.3	Primary Internet Bandwidth (For DC to DR) (500 Mbps)	Number	1					
A.4	Secondary Internet Bandwidth (For DC to Safe City) (1 Gbps)	Number	1					
A.5	Secondary Internet Bandwidth (For DC to DR) (500 Mbps)	Number	1					
B	Additional Requirement							
B.1	Any other bandwidth required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump sum					

7.2.3.17 Field Components

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
A	Hardware							
A.1	Environmental Sensors with complete	Number	10					

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
	accessories, mountings and enclosure setup							
A.2	Emergency Call Box & Panic Button with complete hardware and accessories	Number	50					
A.3	Public Addressal System with complete mount and accessories	Number	50					
A.4	Digital VMD with VMD Controller and complete hardware and accessories	Number	10					
A.5	Mounting structure for VMS including UPS	Number	10					
A.6	Body Camera	Number	50					
A.7	Body Camera Docking Station	Number	10					
A.8	PTZ Cameras with complete mounting accessories	Number	100					
A.9	Box Cameras with complete mounting accessories	Number	200					
A.10	Galvanized Poles with Civil Foundation & Earthing	Number	100					
A.11	Online UPS with Batteries	Number	100					
A.12	Industrial Grade Network PoE+ switches with suitable number of ports	Number	100					
A.13	L3 Switch	Number	10					
A.14	Junction Box With Electrical Cable, Patch Cords, CAT-6 Cable and other required accessories (Pole mounted Powder coated CRCA sheet/ stainless steel, IP66, Fans, Rain Canopy, Cable entry with glands), etc.	Number	100					
A.15	Electric Meter running	Number	100					

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
	cost for one year							
B	Software							
B.1	Environmental Sensors Software	Number	1					
B.2	Public Addressal System & Emergency Call Box (ECB) Software	Number	1					
B.3	VMS Software	Number	1					
B.4	Video Management System for recoding and viewing all types of proposed camera at DC	Number	1					
B.5	Video Analytics Software for proposed cameras at DC	Number	1					
C	Additional Requirement							
C.1	Any other Hardware or Software required to meet the RFP requirements (Bidder to list individual items and provide costing).	Lot	Lump sum					

7.2.3.18 Operations Charges & Capacity Building

No.	BoM Lime Item	Unit of Measurement.	Total Qty.	Year 1	Year 2	Year 3	Year 4	Total Price (Inclusive of all Taxes) (In INR)
1	2	3	4	5	6	7	8	9 = 5+6+7+8
A	Operations Charges							
A.1	Running cost of DG Set	Number	1					
A.2	Electricity Charges	Number	1					
A.3	Water Charges	Number	1					
B	Capacity Building							
B.1	Capacity Building & Training	Number	400					

7.3 General instructions

- a. The Authority or any other government agency shall not have any liability of paying any taxes (including GST)/charges/levies as part of this project. The bidder has to quote their Price duly factoring in all these costs over the project duration.
- b. Bidder should provide all prices as per the prescribed Format under this Annexure.
- c. All the prices are to be entered in Indian Rupees (INR) only
- d. Prices indicated in the schedules shall be inclusive of all taxes, GST, Levies, duties etc. The prices should also specify any recurring charges and four year O&M support cost as per specified Formats.
- e. Authority reserves the right to ask the Bidder to submit proof of payment against any of the taxes, duties, levies indicated.
- f. The Bidder needs to account for all Out of Pocket expenses on account of Boarding, Lodging and other related items.
- g. The Unit Rate as mentioned in the prescribed Formats may be used for the purpose of 'Change Order' for respective items, if any. However, based on the market trends, Authority retains the right to negotiate this rate for future requirement
- h. Bidder shall ensure that the future products to be supplied shall be of latest specifications as per the OEM roadmap.
- i. Bidder should refer Volume II of the RFP for details on the functional requirements of the system and the benchmark minimum specifications for the items mentioned in the Price Formats.
- j. Total cost should be inclusive of all applicable taxes / charges, annual support charges or any other recurring charges such as license fees etc.(for hardware as well as software components) as applicable.
- k. No escalation of prices will be considered during the course of the project implementation and O&M.
- l. The MSI/bidder has to ensure that their Price bid contains reasonable unit rates of CAPEX and OPEX items. LSCL may identify abnormally higher / lower unit rates of line items and seek justifications from bidders on the same. It is recommended that Total Capital Price (CAPEX) quoted in the project should not exceed 50% of Total Price quoted in the price bid. In case the bidder quotes higher figures (more than 50% of Total Price) towards CAPEX, the same shall be restricted to 50% while making payments towards CAPEX. Any value quoted towards CAPEX over and above 50% limit will be paid in equal quarterly instalments during O&M phase along with quarterly payment for each quarter

8 Annexure 4 -Format for EMD

(Either DD or BG from Nationalized / Scheduled Bank on INR 100/- Stamp Paper)

To,

<Name>

<Designation>

<Address>

<Phone Nos.>

<Fax Nos.>

<Email id>

Whereas <<Name of the bidder>> (hereinafter called 'the Master System Integrator') has submitted the bid for Submission of RFP <<RFP Number>> dated <<Date>> for <<Name of the assignment>> (hereinafter called "the Bid") to <<Authority>>.

Know all Men by these presents that we <<... >> having our office at <<Address>> (hereinafter called "the Bank") are bound unto the <<Authority>> (hereinafter called "the Authority") in the sum of Indian Rupees<<Amount in figures>> (Rupees <<Amount in words>> only) for which payment well and truly to be made to the said Authority, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this <<Date>>.

The conditions of this obligation are:

1. If the Bidder having its bid withdrawn during the period of bid validity specified by the Bidder on the Bid Form; or
2. If the Bidder, having been notified of the acceptance of its bid by the Authority during the period of validity of bid
 - (a) Withdraws his participation from the bid during the period of validity of bid document; or
 - (b) Fails or refuses to participate in the subsequent Tender process after having been short listed;

We undertake to pay to the Authority up to the above amount upon receipt of its first written demand, without the Authority having to substantiate its demand, provided that in its demand the Authority will note that the amount claimed by it is due to it owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to <<insert date>> and including <<extra time over and above mandated in the RFP>> from the last date of submission and any demand in respect thereof should reach the Bank not later than the above date.

NOTWITHSTANDING ANYTHING CONTAINED HEREIN:

I. Our liability under this Bank Guarantee shall not exceed Indian Rupees<<Amount in figures>> (Rupees

<<Amount in words>> only)

II. This Bank Guarantee shall be valid up to <<*insert date*>>)

III. It is condition of our liability for payment of the guaranteed amount or any part thereof arising under this Bank Guarantee that we receive a valid written claim or demand for payment under this Bank Guarantee on or before <<insert date>>) failing which our liability under the guarantee will automatically cease.

(Authorized Signatory of the Bank)

Seal:

Date:

9 Annexure 5- Performance Bank Guarantee

[On Appropriate Stamp Paper]

Ref: _____

Date _____

Bank Guarantee No. _____

<Name>

<Designation>

<Address><Ph

one Nos.><Fax

Nos.><Email

id>

Whereas, <<name of the supplier and address>> (hereinafter called “the Master System Integrator”) has undertaken, in pursuance of contract no. <Insert Contract No.> dated. <Date> to provide Implementation services for <<name of the assignment>> to Ludhiana Smart City Limited (hereinafter called “the Authority”)

And whereas it has been stipulated by in the said contract that the bidder shall furnish you with a bank guarantee by a recognized bank for the sum specified therein as security for compliance with its obligations in accordance with the contract;

And whereas we, <Name of Bank> a banking company incorporated and having its head/registered office at <Address of Registered Office> and having one of its office at <Address of Local Office> have agreed to give the supplier such a bank guarantee.

Now, therefore, we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of Indian Rupees<Insert Value> (Rupees <Insert Value in Words> only) and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of Indian Rupees<Insert Value> (Rupees <Insert Value in Words> only) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the bidder before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the Master System Integrator shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This Guarantee shall be valid until <<Insert Date>>)

Notwithstanding anything contained herein:

- I. Our liability under this bank guarantee shall not exceed Indian Rupees<Insert Value> (Rupees <Insert Value in Words> only).
- II. This bank guarantee shall be valid up to <Insert Expiry Date>)

- III. It is condition of our liability for payment of the guaranteed amount or any part thereof arising under this bank guarantee that we receive a valid written claim or demand for payment under this bank guarantee on or before <Insert Expiry Date>) failing which our liability under the guarantee will automatically cease.

Date _____

Place _____

Signature _____

Witness _____

Printed name _____

(Bank's common seal)

10 Annexure 6- Non-Disclosure Agreement

WHEREAS, we the undersigned Bidder, _____, having our principal place of business or registered office at _____, are desirous of bidding for RFP No. <<>> dated <<DD-MM-2018>> **“RFP for selection of Master System Integrator for implementation of Integrated Command and Control Centre and Smart Components in Ludhiana City”** (hereinafter called the said 'RFP') to the “Ludhiana Smart City Limited”, hereinafter referred to as 'Authority'

And,

WHEREAS, the Bidder is aware and confirms that the Authority's business or operations, information, application or software, hardware, business data, architecture schematics, designs, storage media and other information or documents made available by the Authority in the RFP documents during the bidding process and thereafter, or otherwise (confidential information for short) is privileged and strictly confidential and or proprietary to the Authority,

NOW THEREFORE, in consideration of disclosure of confidential information, and in order to ensure the Authority's grant to the Bidder of specific access to Authority's confidential information, property, information systems, network, databases and other data, the Bidder agrees to all of the following conditions.

It is hereby agreed as under:

1. The confidential information to be disclosed by the Authority under this Agreement ("Confidential Information") shall include without limitation, any and all information in written, representational, electronic, verbal or other form relating directly or indirectly to processes, methodologies, algorithms, risk matrices, thresholds, parameters, reports, deliverables, work products, specifications, architecture, project information, security or zoning strategies & policies, related computer programs, systems, trend analysis, risk plans, strategies and information communicated or obtained through meetings, documents, correspondence or inspection of tangible items, facilities or inspection at any site to which access is permitted by the Authority.
2. Confidential Information does not include information which:
 - a. the Bidder knew or had in its possession, prior to disclosure, without limitation on its confidentiality;
 - b. information in the public domain as a matter of law;
 - c. is obtained by the Bidder from a third party without any obligation of confidentiality;
 - d. the Bidder is required to disclose by order of a competent court or regulatory authority;
 - e. Is released from confidentiality with the written consent of the Authority.

The Bidder shall have the burden of proving hereinabove are applicable to the information in the possession of the Bidder.

3. The Bidder agrees to hold in trust any Confidential Information received by the Bidder, as part of the Tendering process or otherwise, and the Bidder shall maintain strict confidentiality in respect of such Confidential Information, and in no event a degree of

confidentiality less than the Bidder uses to protect its own confidential and proprietary information. The Bidder also agrees:

- a. to maintain and use the Confidential Information only for the purposes of bidding for this RFP and thereafter only as expressly permitted herein;
 - b. to only make copies as specifically authorized by the prior written consent of the Authority and with the same confidential or proprietary notices as may be printed or displayed on the original;
 - c. to restrict access and disclosure of Confidential Information to their employees, agents, consortium members and representatives strictly on a "need to know" basis, to maintain confidentiality of the Confidential Information disclosed to them in accordance with this clause; and
 - d. To treat Confidential Information as confidential unless and until Authority expressly notifies the Bidder of release of its obligations in relation to the said Confidential Information.
4. Notwithstanding the foregoing, the Bidder acknowledges that the nature of activities to be performed as part of the Tendering process or thereafter may require the Bidder's personnel to be present on premises of the Authority or may require the Bidder's personnel to have access to software, hardware, computer networks, databases, documents and storage media of the Authority while on or off premises of the Authority. It is understood that it would be impractical for the Authority to monitor all information made available to the Bidder's personnel under such circumstances and to provide notice to the Bidder of the confidentiality of all such information.
 5. Therefore, the Bidder shall disclose or allow access to the Confidential Information only to those personnel of the Bidder who need to know it for the proper performance of their duties in relation to this project, and then only to the extent reasonably necessary. The Bidder will take appropriate steps to ensure that all personnel to whom access to the Confidential Information is given are aware of the Bidder's confidentiality obligation. Further, the Bidder shall procure that all personnel of the Bidder are bound by confidentiality obligation in relation to all proprietary and Confidential Information received by them which is no less onerous than the confidentiality obligation under this agreement.
 6. The Bidder shall establish and maintain appropriate security measures to provide for the safe custody of the Confidential Information and to prevent unauthorized access to it.
 7. The Bidder agrees that upon termination or expiry of this Agreement or at any time during its currency, at the request of the Authority, the Bidder shall promptly deliver to the Authority the Confidential Information and copies thereof in its possession or under its direct or indirect control, and shall destroy all memoranda, notes and other writings prepared by the Bidder or its Affiliates or directors, officers, employees or advisors based on the Confidential Information and promptly certify such destruction.
 8. Confidential Information shall at all times remain the sole and exclusive property of the Authority. Upon completion of the Tendering process and or termination of the contract or at any time during its currency, at the request of the Authority, the Bidder shall promptly deliver to the Authority the Confidential Information and copies thereof in its

possession or under its direct or indirect control, and shall destroy all memoranda, notes and other writings prepared by the Bidder or its Affiliates or directors, officers, employees or advisors based on the Confidential Information within a period of sixty days from the date of receipt of notice, or destroyed, if incapable of return. The destruction shall be witnessed and so recorded, in writing, by an authorized representative of the Authority. Without prejudice to the above the Bidder shall promptly certify to the Authority, due and complete destruction and return. Nothing contained herein shall in any manner impair rights of the Authority in respect of the Confidential Information.

9. In the event that the Bidder hereto becomes legally compelled to disclose any Confidential Information, the Bidder shall give sufficient notice and render best effort assistance to the Authority to enable the Authority to prevent or minimize to the extent possible, such disclosure. Bidder shall not disclose to a third party any Confidential Information or the contents of this RFP without the prior written consent of the Authority. The obligations of this Clause shall be satisfied by handling Confidential Information with the same degree of care, which the Bidder applies to its own similar Confidential Information but in no event less than reasonable care.

For and on behalf of:

(BIDDER)

Authorised Signatory

Office Seal:

Name:

Place:

Designation:

Date:

11 Annexure 7- Format of Agreement between Bidder and their Parent Company / Subsidiary / Sister Concern Company (As the case may be)

(On INR 100.00 Non judicial Stamp Paper and duly notarized)

This agreement made this ___ day of ___ month ___ year by and between M/s. _____ (Fill in the Bidder's full name, constitution and registered office address) hereinafter referred to as bidder on the first part and M/s. _____ (Fill in full name, constitution and registered office address of Parent Company/Subsidiary / Sister Concern Company, as the case may be) hereinafter referred to as "Parent Company/ Subsidiary Company/ Sister Concern Company (Delete whichever not applicable)" of the other part:

WHEREAS

Ludhiana Smart City Limited (hereinafter referred to as LSCL) has invited offers vide their tender No. _____ for _____ and

M/s. _____ (Bidder) intends to bid against the said tender and desires to have technical support of M/s. _____ [Parent Company/ Subsidiary Company/ Sister Concern Company-(Delete whichever not applicable)] and whereas Parent Company/ Subsidiary Company/ Sister Concern Company (Delete whichever not applicable) represents that they have gone through and understood the requirements of subject tender and are capable and committed to provide the services as required by the bidder for successful execution of the contract, if awarded to the bidder.

Now, it is hereby agreed to by and between the parties as follows:

1. M/s. _____ (Bidder) will submit an offer to LSCL for the full scope of work as envisaged in the tender document as a main bidder and liaise with LSCL directly for any clarifications etc. in this context.
2. M/s. _____ (Parent Company/ Subsidiary Company/ Sister Concern Company (Delete whichever not applicable) undertakes to provide technical support and expertise, expert manpower and procurement assistance and project management to support the bidder to discharge its obligations as per the Scope of work of the tender / Contract for which offer has been made by the Parent Company/Subsidiary Company/Sister Concern Company (Delete whichever not applicable) and accepted by the bidder.
2. This agreement will remain valid till validity of bidder's offer to LSCL including extension if any and till satisfactory performance of the contract in the event the contract is awarded by LSCL to the bidder.
3. It is further agreed that for the performance of work during contract period bidder and Parent Company/Subsidiary Company/Sister Concern Company (Delete whichever not applicable) shall be jointly and severally responsible to LSCL for satisfactory execution of the contract.
4. However, the bidder shall have the overall responsibility of satisfactory execution of the contract awarded by LSCL.

In witness whereof the parties hereto have executed this agreement on the date mentioned above.

<p>For and on behalf of _____ (Bidder)</p> <p>Signature: Name: Designation:</p> <p>Witness 1:</p> <p>Signature: Full name: Address:</p> <p>Witness 2:</p> <p>Signature: Full name: Address:</p>	<p>For and on behalf of _____ (Parent/subsidiary/sister concern company)</p> <p>Signature: Name: Designation:</p> <p>Witness 1:</p> <p>Signature: Full name: Address:</p> <p>Witness 2:</p> <p>Signature: Full name: Address:</p>
---	---

Notes:

INSTRUCTIONS FOR FURNISHING PARENT/SUBSIDIARY/SISTER CONCERN COMPANY GUARANTEE

1. Guarantee should be executed on stamp paper of requisite value and notarized.
2. The official(s) executing the guarantee should affix full signature (s) on each page.
3. Resolution passed by Board of Directors of the guarantor company authorizing the signatory (ies) to execute the guarantee, duly certified by the Company Secretary should be furnished along with the Guarantee.
4. Following certificate issued by Company Secretary of the guarantor company should also be enclosed along with the Guarantee.

“Obligation contained in the deed of guarantee No. _____ furnished against tender No. _____ are enforceable against the guarantor company and the same do not, in any way, contravene any law of the country of which the guarantor company is the subject”

12 Annexure 8- Format of Parent Company / subsidiary / Sister Concern Company Guarantee (As the case may be)

(TO BE EXECUTED ON STAMP PAPER OF REQUISITE VALUE AND NOTORISED)

DEED OF GUARANTEE

THIS DEED OF GUARANTEE executed at this day of by M/s (mention complete name) a company duly organized and existing under the laws of (insert jurisdiction/country), having its Registered Office at hereinafter called “the Guarantor” which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successors and permitted assigns.

WHEREAS

- B. Ludhiana Smart City Limited, a statutory body under _____, having its Registered Office at _____, hereinafter called “LSCL” which expression shall unless excluded by or repugnant to the context thereof, be deemed to include its successor and assigns, invited tender number for on
- C. M/s (mention complete name), a company duly organized and existing under the laws of (insert jurisdiction/country), having its Registered Office at (give complete address) hereinafter called “the Company” which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successor and permitted assigns, have, in response to the above mentioned tender invited by LSCL, submitted their bid number to LSCL with one of the condition that the Company shall arrange a guarantee from its parent company guaranteeing due and satisfactory performance of the work covered under the said tender including any change therein as may be deemed appropriate by LSCL at any stage.
- D. The Guarantor represents that they have gone through and understood the requirement of the above said tender and are capable of and committed to provide technical and such other supports as may be required by the Company for successful execution of the same.
- E. The Company and the Guarantor have entered into an agreement dated as per which the Guarantor shall be providing technical and such other supports as may be necessary for performance of the work relating to the said tender.
- F. Accordingly, at the request of the Company and in consideration of and as a requirement for LSCL to enter into agreement(s) with the Company, the Guarantor hereby agrees to give this guarantee and undertakes as follows:
 - 1. The Guarantor (Parent Company / 100% Subsidiary Company/ Sister Concern (Delete whichever not applicable) unconditionally agrees that in case of non-performance by the Company of any of its obligations in any respect, the Guarantor shall, immediately on receipt of notice of demand by LSCL, take up the job without any demur or objection, in continuation and without loss of time and without any cost to LSCL and duly perform the obligations of the Company to the satisfaction of LSCL.

2. The Guarantor agrees that the Guarantee herein contained shall remain valid and enforceable till the satisfactory execution and completion of the work (including discharge of the warranty obligations) awarded to the Company.
3. The Guarantor shall be jointly with the Company and also severally responsible for satisfactory performance of the contract entered between the Company and LSCL.
4. The liability of the Guarantor, under the Guarantee, is limited to the 50% of the annualized contract price entered between the Company and LSCL. This will, however, be in addition to the forfeiture of the Performance Bank Guarantee furnished by the Company.
5. The Guarantor represents that this Guarantee has been issued after due observance of the appropriate laws in force in India. The Guarantor hereby undertakes that the Guarantor shall obtain and maintain in full force and effect all the governmental and other approvals and consents that are necessary and do all other acts and things necessary or desirable in connection therewith or for the due performance of the Guarantor's obligations hereunder.
6. The Guarantor also agrees that this Guarantee shall be governed and construed in accordance with the laws in force in India and subject to the exclusive jurisdiction of the courts of Ludhiana, Punjab.
7. The Guarantor hereby declares and represents that this Guarantee has been given without any undue influence or coercion, and that the Guarantor has fully understood the implications of the same.
8. The Guarantor hereby agrees that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between LSCL and the Bidder Company shall in any way release Guarantor from any liability under this guarantee and Guarantor hereby waive notice of any such change, addition or modification.
9. The Guarantor represents and confirms that the Guarantor has the legal capacity, power and authority to issue this Guarantee and that giving of this Guarantee and the performance and observations of the obligations hereunder do not contravene any existing laws.

For and on behalf of _____ (name of the Parent Company/Subsidiary/Sister Concern company)

Signature: _____

Name: _____

Designation: _____

Common seal of the guarantor company:

Witness 1:

Signature: _____

Full Name: _____

Address: _____

Witness 2:

Signature: _____

Full Name: _____

Address: _____

INSTRUCTIONS FOR FURNISHING PARENT/SUBSIDIARY/SISTER CONCERN COMPANY GUARANTEE

1. Guarantee should be executed on stamp paper of requisite value and notarized.
2. The official(s) executing the guarantee should affix full signature (s) on each page.
3. Resolution passed by Board of Directors of the guarantor company authorizing the signatory (ies) to execute the guarantee, duly certified by the Company Secretary should be furnished along with the Guarantee.
4. Following certificate issued by Company Secretary of the guarantor company should also be enclosed along with the Guarantee.

“Obligation contained in the deed of guarantee No. _____ furnished against tender No. _____ are enforceable against the guarantor company and the same do not, in any way, contravene any law of the country of which the guarantor company is the subject”

13 Annexure 9 - Consortium Agreement

(On INR 100.00 Non judicial Stamp Paper and duly notarized)

THIS JOINT BIDDING AGREEMENT is entered into on this the day of 20...
BETWEEN

1., a company having its registered office at (hereinafter referred to as the **"First Part"** which expression shall, unless repugnant to the context include its successors and permitted assigns)

AND

2., a company having its registered office at (hereinafter referred to as the **"Second Part"** which expression shall, unless repugnant to the context include its successors and permitted assigns).
3., a company having its registered office at (hereinafter referred to as the **"Third Part"** which expression shall, unless repugnant to the context include its successors and permitted assigns).

The above mentioned parties of the FIRST SECOND and THIRD are collectively referred to as the **"Parties"** and each is individually referred to as a **"Party"**

WHEREAS,

Ludhiana Smart City Limited, represented by its Chief Executive Officer and having its offices at 2nd Floor, Office of CEO, Ludhiana Municipal Corporation Office- Zone A, Mata Rani Chowk, Ludhiana, Punjab, INDIA, PIN Code: 141001, (hereinafter referred to as the **"Employer"** which expression shall, unless repugnant to the context or meaning thereof, include its administrators, successors and assigns) has invited applications (the Applications") by its Request for Bids No. dated (the "RFB") for selection of Bidders for construction of the works (the "Works") through Design, Procurement, Build, Operate and Commission and Transfer Contract.

- A. The Parties are interested in jointly Bidding for the Works as members of a JVA and in accordance with the terms and conditions of the RFB document and other Bid documents in respect of the Works, and
- B. It is a necessary condition under the RFB document that the members of the JVA shall enter into a Joint Bidding Agreement and furnish a copy thereof with the Application.
 - a. NOW IT IS HEREBY AGREED as follows:

1. Definitions and Interpretations

In this Agreement, the capitalized terms shall, unless the context otherwise requires, have the meaning ascribed thereto under the RFB.

2. JVA

- 2.1 The Parties do hereby irrevocably constitute a consortium/joint venture (the "JVA") for the purposes of jointly participating in the Bidding Process for the Works. The Parties confirm that all JVA members shall sign the Contract Agreement.
- 2.2 The Parties hereby undertake to participate in the Bidding Process only through this JVA and not individually and/ or through any other consortium constituted for this Works, either directly or indirectly or through any of their associates.

3. Covenants

The Parties hereby undertake that in the event the JVA is declared the selected Bidder and awarded the Contract, the JVA members shall enter into a Contract

Agreement with the Employer and, through its lead partner, undertake to perform all its obligations in compliance with the Contract Agreement for the Works.

4. Role of the Parties

The Parties hereby undertake to perform the roles and responsibilities as described below:

- a. Party of the First Part shall be the Lead member of the JVA and shall have the power of attorney from all Parties for conducting all business for and on behalf of the JVA during the Tendering Process and until the Contract Agreement is entered into with the Employer; Party of the First Part shall be the responsible for works and *(responsibility to be mentioned)*
- b. Party of the Second Part shall be the responsible for works..... *(responsibility to be mentioned)*
- c. Party of the Third Part shall be the responsible for works..... *(responsibility to be mentioned)*

5. Joint and Several Liabilities

The Parties do hereby undertake to be jointly and severally responsible for all obligations and liabilities relating to the Works and in accordance with the terms of the RFB, Bidding Document and the Contract Agreement.

6. Percentage Participation in the JVA

- 6.1 The Parties agree that the proportion of percentage participation in works among the Parties in the JVA shall be as follows: First Party (Lead Member): [should have at-least 51% percentage participation] Second Party: [should have at least 20% percentage participation] Third Party: should have at least 20% percentage participation]
- 6.2 The Parties undertake that they shall collectively hold 100% (hundred per cent) of the percentage participation of the JVA at all times until the Completion of the Project.

7. Representation of the Parties

Each Party represents to the other Parties as of the date of this Agreement that:

- a) Such Party is duly organized, validly existing and in good standing under the laws of its incorporation and has all requisite power and authority to enter into this Agreement;
- b) The execution, delivery and performance by such Party of this Agreement has been authorized by all necessary and appropriate corporate or governmental action and a copy of the extract of the charter documents and board resolution/ power of attorney in favour of the person executing this Agreement for the delegation of power and authority to execute this Agreement on behalf of the JVA Member is annexed to this Agreement, and will not, to the best of its knowledge:
 - i. *require any consent or approval not already obtained;*
 - ii. *violate any Applicable Law presently in effect and having applicability to it;*
 - iii. *violate the memorandum and articles of association, by-laws or other applicable organizational documents thereof;*
 - iv. *violate any clearance, permit, concession, grant, license or other governmental authorization, approval, judgment, order or decree or*

any mortgage agreement, indenture or any other instrument to which such Party is a party or by which such Party or any of its properties or assets are bound or that is otherwise applicable to such Party; or

- v. create or impose any liens, mortgages, pledges, claims, security interests, charges or encumbrances or obligations to create a lien, charge, pledge, security interest, encumbrances or mortgage in or on the property of such Party, except for encumbrances that would not, individually or in the aggregate, have a material adverse effect on the financial condition or prospects or business of such Party so as to prevent such Party from fulfilling its obligations under this Agreement;***
- c) this Agreement is the legal and binding obligation of such Party, enforceable in accordance with its terms against it; and
- d) there is no litigation pending or, to the best of such Party's knowledge, threatened to which it or any of its associates is a party that presently affects or which would have a material adverse effect on the financial condition or prospects or business of such Party in the fulfillment of its obligations under this Agreement.

8. Termination

This Agreement shall be effective from the date hereof and shall continue in full force and effect until the Completion of the Project of the Works is achieved under and in accordance with the Contract Agreement, in case the Contract is awarded to the JVA. However, in case the JVA is either does not get selected for award of the Contract, the Agreement will stand terminated in case the Applicant is not pre-qualified or upon return of the Bid Security by the Employer to the Bidder, as the case may be.

9. Miscellaneous

9.1 This Joint Bidding Agreement shall be governed by laws of India.

9.2 The Parties acknowledge and accept that this Agreement shall not be amended by the Parties without the prior written consent of the Employer.

IN WITNESS WHEREOF THE PARTIES ABOVE NAMED HAVE EXECUTED AND DELIVERED THIS AGREEMENT AS OF THE DATE FIRST ABOVE WRITTEN.

SIGNED, SEALED AND
DELIVERED

SIGNED, SEALED AND
DELIVERED

For and on behalf of

LEAD MEMBER by:

SECOND PART

(Signature)
(Name)
(Designation)
(Address)

(Signature)
(Name)
(Designation)
(Address)

In the presence of:

- 1.
- 2.

Notes:

1. *The mode of the execution of the Joint Bidding Agreement should be in accordance with the procedure, if any, laid down by the Applicable Law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.*
2. *Each Joint Bidding Agreement should attach a copy of the extract of the charter documents and documents such as resolution / power of attorney in favour of the person executing this Agreement for the delegation of power and authority to execute this Agreement on behalf of the Consortium Member.*
3. *In case the bid is signed by an authorized Director / Partner or Proprietor of the Bidder, a certified copy of the appropriate board resolution / document conveying such authorization to client may be enclosed in lieu of the Power of Attorney.*
4. *For a Joint Bidding Agreement executed and issued overseas, the document shall be legalised by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney has been executed. However, the Power of Attorney provided by Applicants from countries that have signed the Hague Legislation Convention 1961 are not required to be legalised by the Indian Embassy if it carries a conforming Apostille certificate.*

14 Annexure 11 - Format for Power of Attorney for Lead bidder of Consortium

[To be executed on non-judicial stamp paper of the appropriate value in accordance with relevant Stamp Act. The stamp paper to be in the name of the company who is issuing the power of attorney]

Whereas _____ has invited RFP response for _____ (Name of the Project)

Whereas, the Members of the Consortium comprising of M/s._____, M/s._____, and M/s._____ (the respective names and addresses of the registered offices to be given) are interested in bidding for the Project and implementing the same in accordance with the terms and conditions contained in the RFP Documents.

Whereas, it is necessary for the members of the Consortium to designate one of them as the lead member with all necessary power and authority to do, for and on behalf of the Consortium, all acts, deeds and things as may be necessary in connection with the Consortium's RFP response for the Project.

NOW THIS POWER OF ATTORNEY WITNESSETH THAT

We, M/s._____ and M/s _____ hereby designate M/s. _____

being one of the members of the Consortium, as the lead member of the Consortium, to do on behalf of the Consortium, all or any of the acts, deeds or things necessary or incidental to the Consortium's RFP response for the Project, including submission of the RFP response, participating in meetings, responding to queries, submission of information or documents and generally to represent the Consortium in all its dealings with Client or any other Government Agency or any person, in connection with the Project until culmination of the process of bidding till the Project Agreement is entered into with Client and thereafter till the expiry of the Project Agreement.

We hereby agree to ratify all acts, deeds and things lawfully done by our said Attorney pursuant to this power of attorney and that all acts, deeds and things done by our aforesaid Attorney shall and shall always be deemed to have been done by us or Consortium.

Dated this the _____ day of _____ 2018

(Signature)

(Name in Block Letter of Executant) *[Seal of Company]*

Witness 1

Witness 2

- The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.*
- Wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a board or shareholders' resolution/ power of attorney in*

favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.

- *In case the bid is signed by an authorized Director / Partner or Proprietor of the Bidder, a certified copy of the appropriate board resolution / document conveying such authorization to client may be enclosed in lieu of the Power of Attorney.*
- *For document executed and issued overseas, the document shall be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney has been executed. However, the Power of Attorney provided by Applicants from countries that have signed the Hague Legislation Convention 1961 are not required to be legalized by the Indian Embassy if it carries a conforming Apostille certificate.*