No. ___1189___ /BSCL/   Date: 9.6.22

REQUEST FOR PROPOSAL (RFP): SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND O&M OF CCTV AND VIDEO MANAGEMENT SYSTEM IN BHUBANESWAR.

M/s. Bhubaneswar Smart City Limited (BSCL), Bhubaneswar invites sealed proposals for "**Supply, Installation, Testing, Commissioning and O&M of CCTV and Video Management System in Bhubaneswar**". *The timeline for completion of supply, Installation, Testing and Commissioning will be 6 months from the date of letter of Intent (LoI) and the O&M would be for 6yrs 6 months.* The details of Terms of Reference (ToR) can be downloaded from the website of BSCL i.e. www.smartcitybhubaneswar.gov.in and Interested agencies may submit their proposals in a sealed cover super-scribing as "**RFP for Supply, Installation, Testing, Commissioning and O&M of CCTV and Video Management System in Bhubaneswar**." with advertisement number and Date to the General Manager (Admin), Bhubaneswar Smart City Limited, 5th Floor, Block-1, BMC Bhawani Mall, Saheed Nagar, Bhubaneswar-751007 through Speed Post / Registered Post / Courier services only, which should reach on or before **5.00 P.M on 27.06.2022** positively and the same will be opened at **3.30 PM on 28.06.2022**. Proposals received after the due date and time shall be rejected. The undersigned reserves the right to reject any or all the tender without assigning any reason thereof. For any queries you reach through email:bbsr.bscl@gmail.com or Telephone:0674- 2548428 / 2540811.

By order of MD and CEO

General Manager (Admin)
Bhubaneswar Smart City Limited

BHUBANESWAR SMART CITY LIMITED (BSCL)

REQUEST FOR PROPOSAL

SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND O&M OF CCTV AND VIDEO MANAGEMENT SYSTEM

RFP No.:1188

Revised RFP Issued on: 09.06.2022

Issued by:
Bhubaneswar Smart City Limited (BSCL)
Block-1, 5th Floor,
BMC-Bhawani Mall, Saheed Nagar,
Bhubaneswar – 751007, Odisha
Phone Number: - 06742548428
Mail Id: - bbsr.bscl@gmail.com
Website: https://www.smartcitybhubaneswar.gov.in/

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DISCLAIMER

The information contained in this **Request for Proposal** document (the "**RFP**") or subsequently provided to Bidder(s), whether verbally or in documentary or any other form, by or on behalf of the **Bhubaneswar Smart City Limited** (herein after referred to as "**BSCL**" or the "**Authority**") or any of its employees or advisors, is provided to Bidder(s) on the terms and conditions set out in this RFP document and such other terms and conditions subject to which such information is provided.

This RFP document is not an agreement and is neither an offer nor invitation by the BSCL to the prospective Bidders or any other person. The purpose of this RFP is to provide interested parties with information that may be useful to them in the formulation of their bids for qualification pursuant to this RFP (the "Bid"). This RFP document does not purport to contain all the information that each Bidder may require. This RFP document may not be appropriate for all persons, and it is not possible for the BSCL and its employees or advisors to consider the objectives, technical expertise, financial situation and particular needs of each party who reads or uses this RFP. The assumptions, assessments, statements and information contained in this RFP, may not be complete, accurate, adequate or correct. Each Bidder should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this RFP and obtain independent advice from appropriate sources.

Information provided in this RFP to the Bidder(s) 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. The BSCL accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

The BSCL its employees and advisors make no representation or warranty and shall have no liability to any person, including any Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFP or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of this RFP and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP or arising in any way for participation in this bid stage. BSCL 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 document.

BSCL may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumption contained in this RFP document.

The issue of this RFP document does not imply that the BSCL is bound to select a Bidder or to appoint the Successful Bidder (Agency), as the case may be, for the Project and the BSCL reserves the right to reject all or any of the Proposals 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 demonstrations or presentations which may be required by the BSCL or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the Bidder and the BSCL 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 or submission of the Bid, regardless of the conduct or outcome of the Bidding Process.

SECTION – 1: INTRODUCTION

1.1. BACKGROUND

1.1.1. Government of Odisha vide Notification No. 4741 dated 23/02/2016 constituted a Special Purpose Vehicle (SPV) company named "Bhubaneswar Smart City Limited" (the "**BSCL**" or "**Authority**") for implementation of Smart City Proposal of Bhubaneswar selected under Smart City Mission programme. Bhubaneswar Smart City Limited (BSCL) is the nodal agency to plan, implement, manage, and operate the Smart City Development Projects in the city.

1.1.2. BSCL under the technological project's scope have installed CCTV cameras in various locations along with VMS in Bhubaneswar city. Further, BSCL has planned to increase the number of CCTV cameras and Video Management System through this RFP. In this reference, BSCL invites the Bid, through this RFP Document, from the interested eligible parties (the "**Bidders**") for supply, installation, testing, commissioning and O&M for a period of 7 years and extension on mutually agreed terms and conditions. The detailed specifications & SLA are placed at Appendix – VI & VII respectively.

Project	Period	No of Cameras	Nature of Work
Supply Installation, Testing, Commissioning and O&M of CCTV and Video management System	6 Months	350	Supply, Installation and Commissioning
Operation and Maintenance of the CCTV and other peripherals in Integration	6 Years and 6 Months		Operation and Maintenance

1.1.3. The Selected Bidder shall enter into the Contract Agreement (the "**Contract Agreement**") with the BSCL in the prescribed format and terms & conditions as provided by the BSCL.

1.1.4. With regards to the Project Site, the CCTV and other related components will be implemented by Successful Bidder (the "**Agency**") for a period of 7 years including O&M period from the date of signing of the Contract Agreement.

1.1.5. The statements and explanations contained in this RFP are intended to provide a proper understanding to the Bidders about the subject matter of this RFP and should not be construed or interpreted as limiting in any way or manner and obligations of the Agency set forth in the Contract Agreement or the BSCL‟s rights to amend, alter, change, supplement or clarify the SoW, the Contract to be awarded pursuant to this RFP or the terms thereof or herein contained. Consequently, any omissions, conflicts or contradictions in the Bidding Documents including this RFP are to be noted, interpreted, and applied appropriately to give effect to this intent, and no claims on that account shall be entertained by BSCL.

1.1.6. BSCL shall receive Bids pursuant to this RFP in accordance with the terms set forth in this RFP and other documents to be provided by BSCL pursuant to this RFP, as modified, altered, amended and clarified from time to time by the BSCL (collectively the "**Bidding Documents**"), and all Bids shall be prepared and submitted in accordance with such terms on or before the date as specified in Clause 1.3 for submission of Bids (the "**Bid Due Date**").

1.2. BRIEF DESCRIPTION OF BIDDING PROCESS

1.2.1. The BSCL has adopted a single Stage bidding process (collectively referred to as the "**Bidding Process**") for selection of the Bidder for award of the Project. The selection process involves technical qualification of interested Bidders in accordance with the provisions of the RFP document. The BSCL shall open the financial bids of the technically qualified Bidders only.

1.2.2. The Bidder shall pay to the BSCL a non-refundable sum of Rs. 11800/- /- (Rupees Eleven Thousand Eight Hundred Only) inclusive of GST as the cost of the RFP document. The remittance shall be made in the form of a Demand Draft in favour of "Bhubaneswar Smart City Limited, payable at Bhubaneswar". The RFP Document can be downloaded from the website of the BSCL **https://www.smartcitybhubaneswar.gov.in/**.

1.2.3. The bid shall be valid for a period of not less than 180 (One Hundred and Eighty) days from the Bid Due Date.

1.2.4. The Bidding Documents include the Request for Proposal (RFP) for the project. Subject to the provisions of Clause 2.9 & 2.10, any Corrigendum or Addenda issued subsequent to this RFP Document and/or the Contract Agreement, but before the Bid Due Date, will be deemed to form part of the Bidding Documents.

1.2.5. An EMD of INR 25,00,000 (Indian Rupees Twenty-Five Lakhs Only) in the form of a demand draft or bank guarantee from any Nationalise Bank in India and drawn in favour of the "**Bhubaneswar Smart City Limited**" and payable at "**Bhubaneswar**", must be submitted along with the Proposal. The Bid shall be summarily rejected if it is not accompanied by the Bid Security.

1.2.6. An Earnest Money Deposit (**EMD**) amount should be in the form of a demand draft or irrevocable, unconditional and on-demand bank guarantee drawn in favour of the Client and payable at Bhubaneswar must be submitted along with the Proposal.

> ➢ The EMD submitted along with the Proposal will remain valid for a period of 30 days beyond validity period of the Proposal, including any extensions thereof.
> ➢ No interest shall be payable by the Client for the sum deposited as EMD.

1.2.7. The EMD of the unsuccessful Bidders will be returned within 1(One) month of signing of the Contract with the successful Bidder. The EMD of the successful Bidder will be returned upon the selected Bidder furnishing the Performance Security. A claim request needs to be submitted by the bidders along with Bank details.

1.3. Forfeiture of EMD:

The EMD shall be forfeited and appropriated by the Client as mutually agreed genuine pre-estimated compensation and damages payable to the Client for the time, cost and effort of the Client, without prejudice to any other right or remedy that may be available to the Client under the RFP or in law under the following conditions:
> ➢ If a Bidder withdraws or modifies its Proposal during the Proposal validity period or any extension agreed by the Bidder thereof.

> ➤ If a Bidder is disqualified in accordance with Clause 2;
> ➤ If the Bidder tries to influence the evaluation process or engages in corrupt, fraudulent, coercive or undesirable practice or restrictive practice as set out in Section 3.

> ➤ If a Bidder is declared the first ranking Bidder and it:
>> i. Withdraws its Proposal during negotiations. However, failure to arrive at a consensus between the Client and the first ranked Bidder shall not be construed as withdrawal of proposal by the first ranked Bidder;
>> ii. fails to furnish the Performance Security in accordance with Clause 25 of the RFP;
>> iii. fails to sign and return, as acknowledgement, the duplicate copy of the letter of award;
>> iv. fails to fulfil any other condition precedent to the execution of the Contract, as specified in the letter of award; or
>> v. fails to execute the Contract.

1.3.1. During, the bid stage, Bidders are invited to examine the Project in greater detail, and to carry out, at their cost, such studies as may be required for submitting their respective bid for award and implementation of the project.

1.3.2. Bids are invited for the project based on BOQ attached to this document of BSCL. The qualification assessment of the Bidder (the "**Successful Bidder**") shall be through a Quality and Cost Based Selection (QCBS) process as defined in the RFP.

1.3.3. Any queries or request for additional information concerning this RFP shall be submitted in writing or by email on **bbsr.bscl@gmail.com** to the **General Manager (Administration), Bhubaneswar Smart City Limited, Block – I, 5th Floor, BMC Bhawani Mall, Saheed Nagar, Bhubaneswar – 751007, Odisha.** No query violating the Schedule of Bidding Process will be responded to or entertained.

1.3.4. the Schedule of Bidding Process will be responded to or entertained.

1.4. SCHEDULE OF BIDDING PROCESS

1.	RFP Name	Supply, Installation, Testing, Commissioning and O&M of CCTV and Video Management System
2.	Mode of Submission	Hard Copy
3.	Tender Document Cost (Non-Refundable)	**Rs. 10,000/- + 18% GST i.e. Rs 11,800/-** to be submitted in the form of Demand Draft issued by any Scheduled Commercial Bank in India in favor of "Bhubaneswar Smart City Limited" payable at Bhubaneswar
4.	Availability of Tender Document on website	From **11.06.2022 to 27.06.2022 up to 17:00** Hours on website https://www.smartcitybhubaneswar.gov.in/
5.	Last date and time for submission of bid (Bid Due Date)	**27.06.2022 up to 17:00 Hours** at the office of BSCL, Bhubaneswar

6.	Date and time of opening of Technical Bid	**28.06.2022** at 15:30 Hours at the office of BSCL
7.	Date and time of opening of Financial Bids	Will be intimated to the Technically qualified bidders
8.	Validity of Bid	180 days of Bid Due Date
9.	Issuance of Letter of Award (LOA)	Will be given on a date and time as intimidated by BSCL to the successful bidder
10.	Submission of Performance Security	Within 30 days from the date of issuance of Letter of Award
11.	Signing of Contract Agreement	Within 45 days from the date of issuance of Letter of Award

Note:

1) If any date specified herein is a holiday, then the next working day will be the applicable date for the proposed event and the time will remain the same.

2) The Schedule indicated above is tentative and BSCL may change any or the entire schedule under intimation to all bidders.

SECTION – 2: INSTRUCTIONS TO BIDDERS

A. GENERAL
2.1. GENERAL TERMS OF BIDDING

2.1.1. No Bidder shall submit more than one Bid for the Project. A Bidder bidding individually shall not be entitled to submit another bid.

2.1.2. Unless the context otherwise requires, the terms not defined in this RFP, but defined in the Request for Proposal document for the Project (the "RFP") shall have the meaning assigned thereto in the RFP.

2.1.3. This RFP is being provided only as preliminary reference document by way of assistance to the Bidders who are expected to carry out their own surveys, investigations and other detailed examination of the project before submitting their Bids. Nothing contained in the RFP shall be binding on the BSCL nor confer any right on the Bidders, and the BSCL shall have no liability whatsoever in relation to or arising out of any or all contents of the RFP.

2.1.4. Notwithstanding anything to the contrary contained in this RFP, the detailed terms specified in the Contract Agreement shall have overriding effect, provided, however, that any conditions or obligations imposed on the Bidder hereunder shall continue to have effect in addition to its obligations under the Contract Agreement.

2.1.5. The financial Bid should be furnished in the format at Appendix – VIII, clearly indicating the amount in both figures and words, in Indian Rupees, and signed by the Bidder's authorized signatory. In the event of any difference between figures and words, the amount indicated in words shall be taken into account. The Technical proposal shall be submitted in the format at Appendix-I to VII.

2.1.6. The Financial Bid shall consist of contract value to be quoted by the Bidder which shall be payable to the BSCL as per the terms and conditions of this RFP and the provisions of the Contract Agreement.

2.1.7. The Bidder shall submit a Performance Security Declaration in accordance with the provisions of this RFP as per format at Appendix–V.

2.1.8. The Bidder should submit a Power of Attorney as per the format at Appendix–II, authorizing the signatory of the Bid to commit the Bidder.

2.1.9. Any condition or qualification or any other stipulation contained in the Bid shall render the Bid liable to rejection as a non-responsive Bid.

2.1.10. The Bid and all communications in relation to or concerning the Bidding Documents shall be in English language. Any printed literature furnished by the Bidder written in another language must be accompanied by its translation in the English language duly authenticated by the Bidder, in which case, for purposes of interpretation of the Bid, the translation shall govern.

2.1.11. The documents including this RFP and all attached documents, provided by the BSCL are and shall remain the property of the BSCL and are transmitted to the Bidders solely for the purpose

of preparation and the submission of a Bid in accordance herewith. Bidders are to treat all information as **strictly confidential** and shall not use it for any purpose other than for preparation and submission of their Bid. The BSCL will not return to the Bidders any Bid, document or any information provided along therewith.

2.1.12. A Bidder shall not have a conflict of interest (the "**Conflict of Interest**") that affects the Bidding Process. Any Bidder found to have a Conflict of Interest shall be disqualified. In the event of disqualification, the BSCL shall be entitled to forfeit and appropriate the Bid Security or Performance Security, as the case may be, as mutually agreed genuine pre-estimated loss and damage likely to be suffered and incurred by the BSCL and not by way of penalty for, inter alia, the time, cost and effort of the BSCL, including consideration of such Bidder's proposal (the "**Damages**"), without prejudice to any other right or remedy that may be available to the BSCL under the Bidding Documents and/ or the Contract Agreement or otherwise. Without limiting the generality of the above, a Bidder shall be deemed to have a Conflict of Interest affecting the Bidding Process, if:

(i) a constituent of such Bidder is also a constituent of another Bidder; or

(ii) such Bidder, its Member or any Associate thereof receives or has received any direct or indirect subsidy, grant, concessional loan or subordinated debt from any other Bidder, its Member or Associate, or has provided any such subsidy, grant, concessional loan or subordinated debt to any other Bidder, its Member or any Associate thereof; or

(iii) such Bidder has the same legal representative for purposes of this Bid as any other

Bidder; or

(iv) such Bidder, or any Associate thereof, has a relationship with another Bidder, or any Associate thereof, directly or through common third party/ parties, that puts either or both of them in a position to have access to each other's information about, or to influence the Bid of either or each other; or

(v) Such Bidder or any Associate thereof has participated as a consultant to the BSCL in the preparation of any documents, design or technical specifications of the Project.

Explanation:

For purposes of this RFP, Associate means, in relation to the Bidder, a person who controls, is controlled by, or is under the common control with such Bidder (the "**Associate**"). As used in this definition, the expression "control" means, with respect to a person which is a company or corporation, the ownership, directly or indirectly, of more than 50% (fifty per cent) of the voting shares of such person, and with respect to a person which is not a company or corporation, the power to direct the management and policies of such person by operation of law

2.1.13. A Bidder shall be liable for disqualification if any legal, financial or technical adviser of the BSCL in relation to the Project is engaged by the Bidder, its Members or any Associate thereof, as the case may be, in any manner for matters related to or incidental to such Project during the Bidding

Process or subsequent to the (i) issue of the LOA or (ii) execution of the Contract Agreement. In the event any such adviser is engaged by the Selected Bidder, after issue of the LOA or execution of the Contract Agreement for matters related or incidental to the Project, then notwithstanding anything to the contrary contained herein or in the LOA or the Contract Agreement and without prejudice to any other right or remedy of the BSCL, including the forfeiture and appropriation of the Performance Security, as the case may be, which the BSCL may have thereunder or otherwise, the LOA or the Contract Agreement, as the case may be, shall be liable to be terminated without the BSCL being liable in any manner whatsoever to the Selected Bidder for the same. For the avoidance of doubt, this disqualification shall not apply where such adviser was engaged by the Bidder, its Member or Associate in the past but its assignment expired or was terminated 6 (six) months prior to the date of issue of RFP for the project. Nor will this disqualification apply where such adviser is engaged after a period of 1 (One) year from the date of signing of Contract Agreement.

2.1.14. This RFP is not transferable.

2.1.15. Any award of agreement pursuant to this RFP shall be subject to the terms of Bidding Documents.

2.1.16. BSCL, its employee and advisors would treat the bids and supporting information submitted by the bidders in a reciprocating confidentiality and would use it for the purpose of this bidding process alone. However, if the information / document submitted by the bidder is needed to be re-produced under any statutory provision, such as Right to Information or litigations, BSCL would do so, with an information to the Bidder and any expenses related to the same would be charged to the bidder.

2.2. ELIGIBILITY OF BIDDERS

2.2.1. Joint Venture (JV)/ Consortium not allowed.

2.2.2. A Bidder should not have a Conflict of Interest.

2.2.3. For determining the eligibility of Bidders, the following shall apply:

SI	Eligibility Requirement	Supporting Documents/ Action Required
1	The bidder shall be a company registered under the Companies Act, 1956/2013 in India. Lead bidder should have operation for at least 5 years in Safe City business) as on published date of RFP.	Copy of Certificate of Incorporation / Registration under Companies Act 1956/2013
2	Bidder should have average annual turnover (TO) of at least Rs. 75 Crores during the last 3 financial years.	Audited and Certified Balance Sheet and Profit/Loss Account of last 3 Financial Years should be enclosed along with CA certificate.
3	Bidder must have positive net worth and should be profit making in each of the last 3 financial years.	Audited and Certified Balance Sheet and Profit/Loss Account of last 3 Financial Years should be enclosed along with CA

SI	Eligibility Requirement	Supporting Documents/ Action Required
		certificate clearly specifying the net worth of the firm
4	Bidder must have experience in Supply Installation, Testing, Commissioning, O&M for Video Management System/Cameras/Analytics of minimum value of Rs. 50 crore and value for Video Management System & Cameras & Analytics should be 05 crores in the same order	Work order and completion certificate from client.
5	Bidder must have experience in supply, installation, Testing, Commissioning & O&M of City IP Surveillance system of at least 500 cameras and its integration in single order	Work order and completion certificate from client.
6	Bidder should have all below certifications a) ISO 9001:2008/ ISO 9001:2015 for Quality Management System or latest b) ISO 20000:2011 for IT Service Management or latest c) ISO 27001:2013 for Information Security Management System or latest	Copies of the valid certificates from authorized agencies
7	Bidder should not debarred/ black-listed by Central / State Government/PSU in India at the time of last date of submission of the bid.	Certificate / affidavit mentioning that the Bidder is not blacklisted by any Ministry of Government of India, by Government of any State in India, any of the Government PSUs. Undertaking by the authorized signatory of Bidder
8	Sole bidder/ All members of consortium (In case of consortium) should have: PAN card GST Registration Number	Copies of the valid certificates from authorized agencies

Technical Qualification

SI	Eligibility Requirement	Marks	Supporting Documents/ Action Required
1	Annual turnover (TO) in each year during the last 3 financial Years of the Sole bidder/Lead bidder (in case of consortium) should have been engaged in Supply, Installation, Testing, Commissioning, and O&M for IT/ITES/ICT system integration services). (a) ≥ 50 Crore - < 70 Crore = 10 marks (b) ≥ 70 Crore - <100 Crore =15 marks	20	CA Certificate specifying the turnover from the specific criteria and Audited Balance Sheets for the last 3 financial years as on 31st Mar 2021.

SI	Eligibility Requirement	Marks	Supporting Documents/ Action Required
	(c) ≥100 Crore = 20 marks		
2	The Sole bidder should have experience in executing projects of Supply, Installation testing, commissioning & maintenance of all types of surveillance Camera's network in Safe City/ Smart City/ City-Wide Projects for State Government/ Central Government/ PSU/ ULB in India during last five financial years (project in Single order). (a) ≥250 Cameras - < 500 Cameras = 10 marks (b) ≥500 Cameras = 15 marks	15	Work order and completion certificate from client.
3	The Sole bidder should have experience in executing projects of Supply, Installation commissioning & maintenance of all types of surveillance Camera's network in Safe City/Smart City/ City-Wide Projects for State Government/ Central Government/ PSU/ ULB in India during last five financial years (project in Single order). (a) ≥30 locations - < 50 locations = 5 marks (b) ≥ 50 locations - < 70 locations = 10 marks (c) ≥70 locations = 15 marks	15	Work order and completion certificate from client.
4	The Sole bidder should have experience in implementation of at least 200 Cameras network in Safe City/Smart City/ City-Wide Projects for State Government/ Central Government/ PSU/ ULB in India during last five financial years (a) ≥1 project - < 2 projects = 5 marks (b) ≥2 projects = 10 marks	10	Work order and completion certificate from client.
6	The Sole bidder should have experience in executing projects of Supply, Installation commissioning & maintenance (O&M) of Networking/ Server/ Storage/ Cyber security components within Data Center/ Control Room in Safe City/ Smart City/ City-Wide Projects for State Government/ Central Government/ PSU/ ULB in India during last five financial years (project in Single order). (a) > 5 crore-10 Marks (b) >10 crore- 15 Marks (c) >20 crore- 20 Marks	20	Work order and completion certificate from client. In case of ongoing projects, Proportionate completion certificate /CA certificate specifying completion.
7	The sole Bidder should have IT Professional as a Key Resource Profile as per below details (Minimum qualifications as per Section) (a) Project Manager – 2.5 marks (b) Tech Leader – 2.5 marks	5	Bidder to submit Project Manager's & Tech Leader name and designation on company letter head certified by HR & CV. Consent letter from Concerned person to be provided.

SI	Eligibility Requirement	Marks	Supporting Documents/ Action Required
8	Understanding of Scope of Work and Detailed Approach & Methodology (a) Understanding of the project and the proposed Architecture to meet the functionalities as given in RFP - **3 Marks** (b) Detailed approach & methodology for project execution and implementation plan with resource deployment plan - **3 Marks** (c) Functional prototype of the requirement given RFP - **3 marks** (d) Identification of major risks & their mitigation plan along with proposed solution for Security and Cyber Threat - **3 Marks** (e) Transition Plan & Exit Management Plan – **3 Marks**	15	Technical Presentation & Documentation
	TOTAL	**100**	

2.2.4. **Short-listing of Bidders**

The Bidders who will score minimum 70 marks out of 100 marks will be considered technically qualified and their proposal will be shortlisted for opening and evaluation for financials. The weightage given to the Technical proposal is 70% for the selection of Bidder under Quality and Cost Based Selection (QCBS) method.

2.2.5. **Evaluation of Financial Proposal**

For financial evaluation, the financial quote indicated in the Financial Proposal of the technically qualified bidder shall be considered. The Financial Proposal with the lowest ETP will receive the maximum score of 100 marks. The score for each other Financial Proposal will be inversely proportional to its ETP and will be computed as follows:

$$Sf = 100 \times Fm / F$$

where:

Sf is the financial score of the Financial Proposal being evaluated
Fm is the ETP of the lowest priced Financial Proposal
F is the ETP of the Financial Proposal under consideration

The weight age given to the financial proposal is 30% under Quality and Cost Based Selection (QCBS) method.

The Client shall determine whether the Financial Proposals are complete, unqualified and unconditional. The cost indicated in the Financial Proposal shall be deemed as final and reflecting the total cost of works. Omissions, if any, in costing any item shall not entitle the Bidder to be compensated and the liability to fulfill its obligations as per the TOR within the total quoted price shall be that of the Bidder.

The Client will correct arithmetical errors during evaluation of Financial Proposals on the following basis:

a) if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;

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; and

c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

If the winning Bidder does not accept the correction of errors, its Proposal shall be disqualified.

2.2.6. Combined and final evaluation

After determining the financial score, the shortlisted Bidders will be given total score which will be determined as under:

Total Score (TS) = Technical Score (ST) x 0.7 + Financial Score (SF) x 0.3

Proposals of the post qualified Bidders during the process of evaluation of the technical bid will finally be ranked according to the total score.

The selected Bidder shall be the first ranked (whose total score as calculated above is the highest). The second ranked Bidder shall be kept in reserve and may be invited for negotiations in case the first ranked Bidder withdraws, or fails to comply with the requirements specified in the RFP document.

2.3. NUMBER OF BIDS AND COST THEREOF

2.3.1. No Bidder shall submit more than one Bid for the Project. A Bidder applying individually shall not be entitled to submit another Bid.

2.3.2. The Bidders shall be responsible for all of the costs associated with the preparation of their Bids and their participation in the Bidding Process. BSCL will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the Bidding Process.

2.4. SITE VISIT AND VERIFICATION OF INFORMATION

2.4.1. Bidders are encouraged to submit their respective Bids after visiting the Project site and ascertaining for themselves the site conditions, access to site, applicable laws and regulations, and any other matter considered relevant by them.

2.4.2. It shall be deemed that by submitting a Bid, the Bidder has:

a) made a complete and careful examination of the Bidding Documents;

b) received all relevant information requested from the BSCL;

c) accepted the risk of inadequacy, error or mistake in the information provided in the Bidding Documents or furnished by or on behalf of the BSCL relating to any of the matters referred to in Clause 2.4.1. above;

d) satisfied itself about all matters, things and information including matters referred to in Clause 2.4.1. hereinabove necessary and required for submitting an informed Bid, execution of the Project in accordance with the Bidding Documents and performance of all of its obligations there under;

e) acknowledged and agreed that inadequacy, lack of completeness or incorrectness of information provided in the Bidding Documents or ignorance of any of the matters referred to in Clause 2.4.1 hereinabove shall not be a basis for any claim for compensation, damages, extension of time for performance of its obligations, loss of profits etc. from the BSCL, or a ground for termination of the Contract Agreement by the Agency;

f) acknowledged that it does not have a Conflict of Interest; and

g) agreed to be bound by the undertakings provided by it under and in terms hereof.

2.4.3. BSCL shall not be liable for any omission, mistake or error in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to this RFP, the Bidding Documents or the Bidding Process, including any error or mistake therein or in any information or data given by the BSCL.

2.5.   VERIFICATION AND DISQUALIFICATION

2.5.1. The BSCL reserves the right to verify all statements, information and documents submitted by the Bidder in response to the RFP or the Bidding Documents and the Bidder shall, when so required by the BSCL, make available all such information, evidence and documents as may be necessary for such verification. Any such verification or lack of such verification, by the BSCL shall not relieve the Bidder of its obligations or liabilities hereunder nor will it affect any rights of the BSCL thereunder.

2.5.2. The BSCL reserves the right to reject any Bid, if:

a) at any time, a material misrepresentation is made or uncovered, or

b) the Bidder does not provide, within the time specified by the BSCL, the supplemental information sought by the BSCL for evaluation of the Bid.

2.5.3. In case it is found during the evaluation or at any time before signing of the Contract Agreement or after its execution and during the period of subsistence thereof, including the Contract thereby granted by the BSCL, that one or more of the pre-qualification conditions have not been met by the Bidder, or the Bidder has made material misrepresentation or has given any materially incorrect or false information, the Bidder shall be disqualified forthwith if not yet appointed as the Agency either by issue of the LOA or entering into of the Contract Agreement, and if the Successful Bidder has already been issued the LOA or has entered into the Contract Agreement, as the case may be, the same shall, notwithstanding anything to the contrary

contained therein or in this RFP, be liable to be terminated, by a communication in writing by the BSCL to the Successful Bidder or the Agency, as the case may be, without the BSCL being liable in any manner whatsoever to the Successful Bidder or Agency. In such an event, the BSCL shall be entitled to forfeit and appropriate the Performance Security, as the case may be, as Damages, without prejudice to any other right or remedy that may be available to the BSCL under the Bidding Documents and/ or the Contract Agreement, or otherwise.

B. DOCUMENTS

2.6. CONTENTS OF THE RFP

2.6.1. This RFP comprises Disclaimer, Glossary set forth hereinabove, the contents as listed below, and will additionally include any Addenda issued in accordance with Clause 2.10.

Sections

Section – 1:   Introduction
Section – 2:   Instructions to Bidders
Section – 3:   Evaluation of Bids
Section – 4:   Fraud and Corrupt Practices
Section – 5:   Pre-bid Conference
Section – 6:   Miscellaneous
Section – 7:   Project Details and Conditions

Appendices

I.   Letter Comprising the Bid
        Annex – I: Details of Bidder
        Annex – II: Technical Capacity of Bidder
        Annex – III: Financial Capacity of Bidder
        Annex – IV: Statement of Legal Capacity
II.   Power of Attorney for Signing of Bid
III.   Affidavit
IV.   Undertaking from the Bidder
V.   Bank Guarantee Form
VI.   Detailed Technical Specification
VII.   Service Level Agreement
VIII.   Financial Bid Form

2.7. CLARIFICATIONS

2.7.1. Bidders requiring any clarification on the RFP may notify the BSCL in writing or by email. They should send in their queries before the date mentioned in the Schedule of Bidding Process specified in Clause 1.3. BSCL shall endeavor to respond to the queries within the period specified therein, but no later than 15 (fifteen) days prior to the Bid Due Date. All the clarifications will be published online on the website www.smartcitybhubaneswar.gov.in without identifying the source of queries.

The queries must be submitted in the following format only:

RFP Name:			
Subject: Request for Clarification			
Name and Address of the Organization submitting query:			
Name and Position of Person submitting query:			
Contact details of the Organization / Authorized Representative: Tel: Mobile: Fax: Email:			
S.No.	RFP Clause No. / Page No.	Content of RFP requiring clarification	Points of clarification required
1.			
2.			
3.			

2.7.2. The BSCL shall endeavor to respond to the questions raised or clarifications sought by the Bidders. However, the BSCL reserves the right not to respond to any question or provide any clarification, in its sole discretion, and nothing in this clause shall be taken or read as compelling or requiring the BSCL to respond to any question or to provide any clarification.

2.7.3. The BSCL may also on its own motion, if deemed necessary, issue interpretations and clarifications to all Bidders. All clarifications and interpretations issued by the BSCL shall be deemed to be part of the Bidding Documents. Verbal clarifications and information given by the BSCL or its employees or representatives shall not in any way or manner be binding on the BSCL.

2.8. AMENDMENT OF RFP
2.8.1. At any time prior to the Bid Due Date, the BSCL may, for any reason, whether at its own initiative or in response to clarifications requested by any Bidder, modify the RFP by the issuance of Addendum or a Corrigendum.

2.8.2. Any Addendum or a Corrigendum thus issued will be a part of the RFP and shall be published online on the BSCL website www.smartcitybhubaneswar.gov.in. BSCL will assume no responsibility for receipt of the Addendum and Corrigendum.

2.8.3. In order to accord the Bidders a reasonable time for taking an Addendum or a Corrigendum into account, or for any other reason, the BSCL may, in its sole discretion, extend the Bid Due Date.

C. PREPARATION AND SUBMISSION OF BIDS
2.9. FORMAT AND SIGNING OF BID
2.9.1. The Bidder shall provide all the information sought under this RFP. The BSCL will evaluate only those Bids that are received in the required formats and complete in all respects.

2.9.2. The Bid shall be typed or written in indelible ink and signed by the authorized signatory of the Bidder who shall also initial each page, in blue ink. In case of printed and published documents,

only the cover shall be initialed. All the alterations, omissions, additions or any other amendments made to the Bid shall be initialed by the Authorized signatory of the bidder.

2.9.3. The language of the bid and related documents and correspondence shall be in English.

2.9.4. The currency for the purpose of the Bid shall be Indian Rupees.

2.9.5. While preparing the Proposals, the Bidders are expected to examine the RFP document in detail. Material deficiencies in providing the information requested may result in rejection of a proposal.

2.9.6. The pages of each part of the Bid shall be clearly numbered and stamped and the contents duly indexed. The Bid should not include any loose papers other than Tender Document Cost.

2.10. SEALING AND MARKING OF BID

2.10.1. The Bidder Proposal will consist of three (3) parts:

a) **Envelope – 1: "Tender Document Cost"** of the required value and in approved format. If the Tender Document cost is found proper, then only technical, and financial proposal will be entertained.

b) **Envelope – 2: "Technical Proposal"** shall submit in the format, together with the documents specified below:

   i. Appendix – I: Letter comprising the bid along with Annexes and supporting documents
   ii. Appendix – II: Power of Attorney for signing the Bid
   iii. Appendix – III: Affidavit
   iv. Appendix – IV: Undertaking
   v. Appendix – V: Bank Guarantee Form
   vi. Appendix – VI: Detailed Technical Specification
   vii. Appendix – VII: Service Level Agreement

c) **Envelope – 3: "Financial Proposal"** in the format as provided in Appendix – VI of the RFP documents.

2.10.2. All the three envelopes should be sealed and marked separately. If the Financial Proposal is enclosed in the envelope marked 'Technical Proposal', and vice versa, or is not sealed, the Proposal will be rejected.

2.10.3. The three envelopes containing the Tender Document Cost (Envelope 1), Technical Proposal (Envelope 2) and Financial Proposal (Envelope 3) shall be put together in an outer envelope.

2.10.4. This outer envelope shall be properly sealed and signed, and be clearly labeled with:

   i. Title of the Project
   ii. RFP No.
   iii. Deadline for Submission (Bid Due Date)
   iv. Name and Address of the Bidder
   v. On outer envelope containing three envelopes: 'DO NOT OPEN EXCEPT IN THE PRESENCE OF THE EVALUATION COMMITTEE.

vi. On inner envelopes containing the Technical proposal: DO NOT OPEN BEFORE 15:30 Hours on …/…/2022 and;

vii. On inner envelopes containing the Financial Proposal: 'DO NOT OPEN UNTIL THE OPENING OF FINANCIAL PROPOSALS'

2.10.5. If the envelope is not sealed and marked as instructed above, the BSCL assumes no responsibility for the misplacement or premature opening of the contents of the Bid and consequent losses, if any, suffered by the Bidder.

2.11. BID DUE DATE

2.11.1. The Bids in the prescribed form as mentioned above must be delivered and received at the address mentioned below on or before the scheduled date and time of submission of bid as stated in the schedule of bidding process. Bids submitted by fax transmission /e-mail shall not be accepted.

General Manager (Administration)
Bhubaneswar Smart City Limited (BSCL)
Block-1, 5th Floor,
BMC-Bhawani Mall, Saheed Nagar,
Bhubaneswar – 751007, Odisha

2.11.2. Proposals received without Tender Document Cost and EMD will be rejected.

2.11.3. BSCL may, in exceptional circumstances and its sole discretion, extend the Bid Due Date by issuing an Addendum uniformly for all bidders only on its website BSCL :: Bhubaneswar Smart City Limited (smartcitybhubaneswar.gov.in).

2.12. LATE BIDS

Bids received by the BSCL after the specified time on the Bid Due Date shall not be eligible for consideration and shall be summarily rejected.

2.13. CONTENTS OF THE FINANCIAL BID

2.13.1. The Financial Bid shall be furnished in the format at Appendix – VIII and shall consist of value to be quoted by the Bidder in the financial format.

Contract Value = Capital Expenditure (CAPEX) + Operation & Maintenance (O&M) cost

2.13.2. The project will be awarded to the Bidder on the basis of QCBS (70:30) for supply, installation, testing, commissioning and operation & maintenance of CCTV with VMS to the BSCL.

2.13.3. The opening of Bids and acceptance thereof shall be substantially in accordance with this RFP.

2.14. MODIFICATIONS/ SUBSTITUTION/ WITHDRAWAL OF BID

2.14.1. The Bidder may modify, substitute or withdraw its Bid after submission, provided that written notice of the modification, substitution or withdrawal is received by the BSCL prior to Bid Due Date. No Bid shall be modified, substituted or withdrawn by the Bidder on or after the Bid Due Date.

2.14.2. Any alteration/ modification in the Bid or additional information supplied subsequent to the Bid Due Date, unless the same has been expressly sought for by the BSCL, shall be disregarded.

2.14.3. The modification, substitution or withdrawal notice shall be prepared, sealed, marked, and delivered to the BSCL with the envelopes being additionally marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL", as appropriate.

2.15. RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS

2.15.1. Notwithstanding anything contained in this RFP, the BSCL reserves the right to accept or reject any Bid and to annul the Bidding Process and reject all Bids, at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons therefore. In the event that the BSCL rejects or annuls all the Bids, it may, in its discretion, invite all eligible Bidders to submit fresh Bids hereunder.

2.15.2. BSCL reserves the right to reject any Bid and/ or Tender if:

a) at any time, a material misrepresentation is made or uncovered, or

b) the Bidder does not provide, within the time specified by the BSCL, the supplemental information sought by the BSCL for evaluation of the Bid.

2.15.3. In case it is found during the evaluation or at any time before signing of the Contract Agreement or after its execution and during the period of subsistence thereof, including the contract thereby granted by the BSCL, that one or more of the pre-qualification conditions have not been met by the Bidder, or the Bidder has made material misrepresentation or has given any materially incorrect or false information, the Bidder shall be disqualified forthwith if not yet appointed as the Agency either by issue of the LOA or entering into of the Contract Agreement, and if the Bidder/SPV has already been issued the LOA or has entered into the Contract Agreement, as the case may be, the same shall, notwithstanding anything to the contrary contained therein or in this RFP, be liable to be terminated, by a communication in writing by the BSCL to the Bidder, without the BSCL being liable in any manner whatsoever to the Bidder and without prejudice to any other right or remedy which the BSCL may have under this RFP, the Bidding Documents, the Contract Agreement or under applicable law.

2.15.4. The BSCL reserves the right to verify all statements, information and documents submitted

by the Bidder in response to the RFP. Any such verification or lack of such verification by the BSCL shall not relieve the Bidder of its obligations or liabilities hereunder nor will it affect any rights of the BSCL there under.

2.16. VALIDITY OF BIDS

The bids shall be valid for a period of **180 (One Hundred and Eighty) days** from the Bid Due Date.

In exceptional circumstances, prior to expiry of the original bid validity period, the BSCL may request the bidders to extend the period of validity for a specified additional period. The request and the responses thereto shall be made in writing.

2.17. CONFIDENTIALITY

Information relating to the examination, clarification, evaluation and recommendation for the Bidders shall not be disclosed to any person who is not officially concerned with the process or is not a retained professional advisor advising the BSCL in relation to or matters arising out of, or concerning the Bidding Process. The BSCL will treat all information, submitted as part of the Bid, in confidence and would require all those who have access to such material to treat the same in confidence. The BSCL may not divulge any such information unless it is ordered to do so by any Statutory Entity that has the power under law to require its disclosure or is to enforce or assert any right or privilege of the statutory entity and/ or the BSCL.

2.18. CORRESPONDENCE WITH THE BIDDER

The BSCL shall not entertain any correspondence with any Bidder in relation to acceptance or rejection of any Bid.

2.19. ACKNOWLEDGEMENT BY THE BIDDER

2.19.1. It would be deemed that by submitting the Bid, the Bidder has:

 a) Made a complete and careful examination of the RFP document;

 b) Received all relevant information requested from the BSCL;

 c) Accepted the risk of inadequacy, error or mistake in the information provided in the RFP or furnished by or on behalf of the BSCL relating to any of the matters referred to in Clause 2.4 above;

 d) agreed to be bound by the undertakings provided by it under and in terms hereof; and

 e) Independently verified all information received from the BSCL.

2.19.2. The BSCL shall not be liable for any omission, mistake or error in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to the RFP or the Bidding Process, including any error or mistake therein or in any information or data given by the BSCL.

2.19.3. The BSCL shall not be liable for any mistake or error on the part of the Bidder in respect of the above.

2.20. INTEREST FREE SECURITY DEPOSIT

The selected bidder shall, for the performance of its obligations as defined hereunder shall prior to the date of execution of agreement, provide to BSCL, an interest free irrevocable and unconditional guarantee from a Bank for a sum equivalent to 10 percent of the contract value (the "Security Deposit / Performance Guarantee/ Performance Security") issued in favour of Bhubaneswar Smart City Limited drawn from any Nationalized Banks in India.

2.20.1. The security deposit shall remain valid for period of 7 years (beyond 6 months from the contract's expiry period).

2.20.2. The Client shall not make a claim under the Performance Security, except for amounts to which the Client is entitled under the Contract in the event of:

    i) failure by the Supplier to extend the validity of the Performance Security on extension of the validity of the contract, in which event the Client may claim the full amount of the Performance Security,

    ii) failure by the Supplier to pay the Client an amount due, as either agreed or determined pursuant to the dispute resolution process specified in the Contract, within forty-two (42) days after determination of the dispute;

    iii) failure by the Supplier to pay any damages due to the Client under the Contract;

    iv) failure by the Supplier to pay any amounts that are due to the Client on termination of the Contract;

    v) the Supplier engaging in any corrupt, fraudulent, coercive, collusive, undesirable or restrictive practice.

2.20.3. If the Performance Security is or becomes invalid for any reason during the term of the Contract, the Supplier shall immediately notify the Client and provide the Client with a replacement Performance Security within five (5) days of the earlier Performance Security becoming invalid.

2.20.4. If the Supplier fails to extend the Performance Security, the Client shall be entitled to draw on and claim the un-drawn amount thereunder, provided that the amount so received shall be treated as a cash security and to the extent that there are no outstanding claims, shall be released upon submission of a new Performance Security acceptable to the Client.

2.20.5. On completion of the contractual obligations under the Contract by the Supplier, the Client shall return the Performance Security within Sixty days of the last payment made to the Supplier under the Contract.

2.20.6. Upon the BSCL being of the view that the selected bidder has committed any breach or default of this Agreement, BSCL shall, without prejudice to its other rights and remedies hereunder or in law, be entitled to encash and appropriate the relevant amounts from the Security Deposit as damages for such breach or default. Upon such encashment and appropriation from the Security Deposit, the selected bidder shall, within 30 (thirty) days thereof, replenish, in case of partial appropriation, to its original level the Security Deposit, and in case of appropriation of the entire Security Deposit provide a fresh Security Deposit, as the case may be, and the selected bidder shall, within the time so granted, replenish or furnish fresh Security Deposit as aforesaid failing which BSCL shall be entitled to terminate this Agreement and forfeit the remaining amounts of the Security Deposit, if any.

2.20.7. The said Security Deposit shall be returned by BSCL after the expiry of the Contract Period subject to fulfilment of all requirements by the selected bidder, to the satisfaction of BSCL and further subject to adjustment for all damages suffered by BSCL.

SECTION – 3: EVALUATION OF BIDS

3.1.   OPENING OF BIDS

3.1.1.   The bids as received shall be opened by the BSCL at the date and time as mentioned in Schedule of Bidding Process, in the presence of bidders who choose to be present. However, BSCL reserves the right to change the time of opening of bid in case of any exigency.

3.1.2.   On opening of the main envelope, it will be checked if it contains the following documents:

- Tender Document Cost (Envelope 1)

- Technical Proposal (Envelope 2)

- Financial Proposal (Envelope 3)

3.1.3.   The Envelope 1 will be opened first and will be checked for its requisite value and format.

3.1.4.   In case the Tender Document Cost found to be in acceptable form, then only the Qualification Proposals shall be considered and processed further.

3.1.5.   If the Envelope 1 do not contain the Tender Document Cost, or not of required value or in acceptable form, the proposals submitted will be rejected.

3.1.6.   All proposals containing the Envelope 1 in requisite and acceptable form, their Technical Proposals (Envelope 2) shall be opened one at a time and the following read out and recorded: the name of the Bidder; and any other details as the BSCL may consider appropriate.

3.1.7.   Only Technical Proposals which are read out and recorded at Bid opening stage shall be considered for evaluation. No Proposal shall be rejected at the opening of Technical Proposals except for Late Bids.

3.1.8.   A list of the Bidders or their representatives attending the opening of Bids shall be prepared and their signatures shall be obtained on the same (no signatures shall be obtained if the Bid Opening is done through Video Conferencing).

3.1.9.   The Financial proposal shall not be opened on that day and shall be kept separately in the safe custody of the BSCL to be opened and evaluated later on as per the procedure detailed herein. The BSCL shall open Financial Bids of only those Bidders who meet the eligibility criteria specified in this RFP at such date and time as intimated by the BSCL.

3.2.   TEST OF RESPONSIVENESS

3.2.1.   Prior to evaluation of bids, BSCL shall determine whether the bid submitted by each Bidder is substantially responsive to the requirements of the RFP.

3.2.2.   A bid shall be considered responsive only if:

a)   The bid is received by the Bid Due Date including any extension thereof;

b)   The bid is signed, sealed and marked;

c) The bid is accompanied with the Tender Document Cost;

d) The bid is accompanied with EMD;

e) It is accompanied by the valid Power of Attorney;

f) It contains all the information (complete in all respects) as requested in this RFP and/ or Bidding Documents (in formats same as those specified);

g) Each page of the Bid document submitted is signed and sealed by the authorized signatory of the Bidder.

h) It does not contain any condition or qualification; and

i) It is not non-responsive in terms hereof.

3.2.3. The BSCL reserves the right to reject any bid which is non-responsive and no request for alteration, modification, substitution or withdrawal shall be entertained by the BSCL in respect of such Bid.

3.3. EVALUATION OF BIDS

3.3.1. Evaluation of Technical Proposal

3.3.1.1. BSCL constituted "Technical Evaluation Committee" will be responsible for evaluation and ranking of proposals received based on the responsiveness of the Bidder to the terms & conditions using the eligibility criteria and points system as specified in the RFP.

3.3.1.2. Each Technical Proposal will receive a technical score **(ST)**. A Proposal shall be rejected if it does not achieve the minimum technical mark of 70 from the maximum of 100 points.

3.3.1.3. After the technical evaluation is completed, BSCL will notify Bidders whose Proposals did not meet the minimum qualifying technical mark or Bidders who's Technical Proposals were considered non-responsive to the RFP requirements, indicating that their Financial Proposals will be returned unopened after completion of the selection process.

3.3.1.4. BSCL will simultaneously notify the Bidders whose Technical Proposals received a minimum qualifying mark or higher, indicating the date, time, and location for opening of Financial Proposals. (Bidders' attendance at the opening of Financial Proposals is optional).

3.3.1.5. If any information furnished by the Bidder is found to be incomplete, or contained in formats other than those specified herein, the BSCL may, in its sole discretion, seek clarifications/ information in writing from any Bidder regarding its Bid. Any clarification submitted by a Bidder with regard to its Bid that is not in response to a request by BSCL shall not be considered.

3.3.1.6. In the event that a Bidder claims credit for an Eligible Project, and such claim is determined by the BSCL as incorrect or erroneous, the BSCL shall reject such claim and exclude the same from evaluation. Where any information is found to be patently false or amounting to material

misrepresentation, the BSCL reserves the right to reject the Bid in accordance with the provisions of RFP.

3.3.1.7. Bidders are advised that qualification of Bidders will be entirely at the discretion of BSCL. Bidders will be deemed to have understood and agreed that no explanation or justification on any aspect of the Bidding Process or selection will be given.

3.3.2. The BSCL reserves the right not to proceed with the Bidding Process at any time without notice or liability and to reject any Bid without assigning any reasons.

3.3.3. **Evaluation of Financial Proposal**

3.3.3.1. The Client will open Envelope-3 **"Financial Bid"** (in the presence of the Bidders' representatives who choose to attend), for the Bidders who pass the evaluation of Technical Bid on the date and time as intimated to the qualified technical bidders.

3.3.3.2. The bidders or their authorized representatives who are present to witness the Financial Bid opening shall sign an attendance sheet / register evidencing their attendance as a witness to the Financial Bid opening process. In the event of the specified date of Financial Bid opening being declared a holiday, the Financial Bids will be opened on the next working day at the same time and place or on any other day/time, as intimated by the BSCL.

3.3.3.3. The score for each Financial Proposal will be carefully scrutinized and an Estimated Total Price (ETP) will be determined. The Financial Proposal with the lowest ETP will receive the maximum score of 100 marks. The score for each other Financial Proposal will be inversely proportional to its ETP and will be computed as follows:

$$SF = 100 \times FM / F$$

where:

SF is the financial score of the Financial Proposal being evaluated

FM is the ETP of the lowest priced Financial Proposal

F is the ETP of the Financial Proposal under consideration

3.3.4. The Bidder shall specify the value in the Financial Bid in both numeric and alphabetical manner in the format provided for such Financial Bid in this RFP. For avoidance of doubt, it is clarified that in the event of discrepancy in the quoted contract value in numeric and alphabetical manner, the contract value quoted in alphabetical manner shall be considered.

3.3.5. The qualification assessment of the Bidder would be through a Quality and Cost Based Selection (QCBS) process as described in this RFP document.

3.4. SELECTION OF BIDDER

3.4.1. Following completion of evaluation of Technical and Financial Proposals, final ranking of the Proposals will be determined. This will be done by applying Quality and Cost Based Selection

(QCBS) method in which the Technical and Financial score of each evaluated proposal is multiplied by a weight age of 0.70 (or Seventy percent) and 0.30 (or Thirty percent) respectively using following formula:

Total Score (TS) = Technical Score (ST) x 0.7 + Financial Score (SF) x 0.3

3.4.2. The Technical and Financial scores shall be added and the relevant combined total score **(TS)** for each Bidder is determined. The highest ranked Bidder based on combined total score **(TS)** shall then be declared as the **Successful Bidder**.

3.4.3. After selection, a Letter of Award (the **"LOA"**) shall be issued by the BSCL to the Successful Bidder and the Successful Bidder shall, within 7 (seven) days of the receipt of the LOA, sign and return the duplicate copy of the LOA in acknowledgement thereof.

3.4.4. After acknowledgement of the LOA as aforesaid by the Successful Bidder, the Interest free Security Deposit to be submitted within 30 days from the date of issue of LOA and the Contract Agreement shall be executed between BSCL and the Successful Bidder within 45 days from the date of issue of LOA. Payment of stamp duty on agreement, if any, to be executed in pursuance of this bid shall be borne by successful bidder.

3.4.5. The Successful Bidder shall not be entitled to seek any deviation, modification, or amendment in the Contract Agreement.

3.5.   CONTACTS DURING BID EVALUATION

Bids shall be deemed to be under consideration immediately after they are opened and until such time the BSCL makes official intimation of award/ rejection to the Bidders. While the Bids are under consideration, Bidders and/ or their representatives or other interested parties are advised to refrain from contacting by any means, the BSCL and/ or their employees/ representatives on matters related to the Bids under consideration.

SECTION – 4: FRAUD AND CORRUPT PRACTICES

4.1. The Bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Bidding Process and subsequent to the issue of LOA and during the subsistence of Contract Agreement. Notwithstanding anything to the contrary contained herein, or in the LOA, or the Contract Agreement, the BSCL may reject a Bid, withdraw the LOA or terminate the Contract Agreement, as the case may be, if it determines that the Bidder or Agency, as the case may be, has directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bidding Process. In such an event, the BSCL shall be entitled to forfeit and appropriate the Bid Security or Performance Security, as the case may be, as Damages without prejudice to any other right or remedy that may be available to the BSCL under the Bidding Documents and/ or the Contract Agreement, or otherwise.

4.2. Without prejudice to the rights of the BSCL under Clause 4.1 hereinabove and the rights and remedies which the BSCL may have under the LOA or the Contract Agreement, or otherwise if a Bidder or Agency, as the case may be, is found by the BSCL to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bidding Process, or after the issue of the LOA or the execution of the Contract Agreement, such Bidder or Agency shall not be eligible to participate in any tender or RFP issued by the BSCL and/or the Authority during a period of 2 (two) years from the date such Bidder or Agency, as the case may be, is found by the BSCL to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practices, as the case may be.

4.3. For the purposes of this Clause 4, the following terms shall have the meaning hereinafter respectively assigned to them:

    a) **"corrupt practice"** means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bidding Process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the BSCL who is or has been associated in any manner, directly or indirectly, with the Bidding Process or the LOA or has dealt with matters concerning the Contract Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the BSCL, shall be deemed to constitute influencing the actions of a person connected with the Bidding Process); or (ii) save and except as permitted under the RFP document, engaging in any manner whatsoever, whether during the Bidding Process or after the issue of the LOA or after the execution of the Contract Agreement, as the case may be, any person in respect of any matter relating to the Project or the LOA or the Contract Agreement, who at any time has been or is a legal, financial or technical adviser of the BSCL in relation to any matter concerning the Project;

b) "**fraudulent practice**" means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process;

c) "**coercive practice**" means impairing or harming or threatening to impair or harm, directly or indirectly, any person or property to influence any person's participation or action in the Bidding Process;

d) "**undesirable practice**" means (i) establishing contact with any person connected with or employed or engaged by the BSCL with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bidding Process; or (ii) having a Conflict of Interest; and

e) "**restrictive practice**" means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Bidding Process.

SECTION – 5: PRE-BID CONFERENCE

4.1. Pre-Bid conference of the Bidders shall be convened at the designated date & time as mentioned in the Schedule of Bidding Process either through online mode through Video Conference or physically at the office of BSCL depending upon the situation of Covid-19 pandemic in Bhubaneswar. The address for physical holding of Pre-bid Conference is as follows:

Bhubaneswar Smart City Limited,

Block – 1, 5th Floor,

BMC Bhawani Mall, Saheed Nagar,

Bhubaneswar – 751007, Odisha

A maximum of two representatives of each Bidder shall be allowed to participate on production of authority letter from the Bidder.

4.2. During the course of Pre-Bid conference, the Bidders will be free to seek clarifications and make suggestions for consideration of the BSCL. BSCL shall endeavor to provide clarifications and such further information as it may, in its sole discretion, consider appropriate for facilitating a fair, transparent and competitive Bidding Process.

SECTION – 6: MISCELLANEOUS

1.1. The Bidding Process shall be governed by, and construed in accordance with, the laws of India and the Courts at Bhubaneswar, Odisha shall have exclusive jurisdiction over all disputes arising under, pursuant to and / or in connection with the Bidding Process.

1.2. The BSCL, in its discretion and without incurring any or liability, reserves the right, at any time, to:

a) suspend and/ or cancel the Bidding Process and/ or amend and/ or supplement the Bidding Process or modify the dates other terms conditions relating thereto;

b) consult with any Bidder in order to receive clarification or further information;

c) retain any information and/ or evidence submitted to the BSCL by, on behalf of, and / or in relation to any Bidder; and / or

d) Independently verify, disqualify, reject and/ or accept any and all submissions or other information and/ or evidence submitted by or on behalf of any Bidder.

1.3.   It shall be deemed that by submitting the Bid, the Bidder agrees and releases the BSCL, its employees, agents and advisers, irrevocably, unconditionally, fully and finally from any and all liability for claims, losses, damages, costs, expenses or liabilities in any way related to or arising from the exercise of any rights and/ or performance of any obligations hereunder, pursuant hereto and/ or in connection with the Bidding process and waives any and all rights and/ or claims it may have in this respect, whether actual or contingent, whether present or in future.

SECTION – 7: PROJECT DETAILS AND CONDITIONS

7.1.   PROJECT DETAILS

7.1.1. OVERVIEW

7.1.1.1. BSCL intends to augment CCTV cameras along with the related components in Bhubaneswar city and to be monitored from BSCL ICOMC (Bhubaneswar Smart City Limited Intelligent City Operation and Management Center) .

The scope is consisting of Supply, Installation, Testing, Commissioning and Operation & Maintenance of the following components:

- Fixed Camera

- PTZ Camera

- PTZ camera Joystick

- Network video recorder (NVR)

- Camera Accessories (Power supplies, cable, connectors, and associated accessories for an integrated system

- Video Management System

- Communication network related to the scope

And other details mentioned in the BOQ of capital expenditure and O&M.

- All the cameras must be IP based.

- Cameras shall have an integral receiver/driver that shall be capable of controlling pan-tilt, zoom and focus locally and remotely from the ICOMC.

- All cameras shall support real-time video content analysis.

Key business requirements of the BSCL for CCTV and Video management System with other components are mentioned in this RFP.

7.2. RIGHT TO SUB-CONTRACT
The selected bidder shall have no right to sub-contract the work to any other third party.

7.3. DURATION OF CONTRACT PERIOD
7.3.1. The duration of the contract period as prescribed in this RFP will be for the period of 7 Years for supply, installation, testing and commissioning and O&M from the date of signing of Contract Agreement with an extension based on mutually agreed terms and conditions.

7.3.2. Till the signing of the Contract Agreement, the LOA shall form a binding contractual agreement between BSCL and the Successful Bidder as per terms of this RFP.

7.4. PAYMENTS SCHEDULE

SN	Milestones	Capex	Opex
1	**Project Plan**	2%	NA
2	**Design**	3%	
3	**Supply of equipment**	30%	
4	**Installation completion**	20%	
5	**System Acceptance**	5%	
6	**Go-live and Commissioning**		
	- 90% of the system	7%	
	- 100% of the system	3%	
7	**Integration with ICOMC**		
	- 90% of system	7%	
	- 100% of the system	3%	
8	Go-live at ICOMC	5%	
9	**AMC period**	15% (Quarterly payment for 6 Years and 6 Months)	100% quarterly payment for 6 years based on quoted AMC for that particular year.

7.5. STATUTORY OBLIGATIONS AND CLEARANCES
7.5.1. If during the Contract Period any loss of property and/or life takes place, the loss and account of the same shall be borne entirely by the Agency and the BSCL shall not be liable for any such claims. The Agency shall be responsible for the payments arising out of any third-party claims. The Agency is advised to procure insurance for meeting such liabilities at his own cost.

7.5.2. Agency shall indemnify BSCL from/ against any claims made or damages suffered by BSCL by reason of any default on the part of the bidder in the due observance and performance of the provisions of any law which may be related to the purpose of the contract agreement and to the area in which premises are located.

7.5.3. Agency shall operate the implementation work without disturbing the natural surroundings and ensuring that the local flora and fauna are not disturbed.

7.5.4. Agency shall not be allowed to implement the work in a manner that violates the regulatory and policy framework encompassing in India comprises a number of statutes, rules, regulations, guidelines, etc. laid down by the Government of India. If it is found that the Agency is violating the same, then the contract agreement shall stand cancelled without further reference to the arbitrator.

7.5.5. BSCL will not be responsible for any accident / theft etc. involving any personnel / asset of the Agency while on work. The Agency itself would be responsible for such accident / incident and for any kind of compensation to any worker/employee for such accident. The Agency is advised to have its personnel and assets insured under suitable insurance schemes at its own cost.

7.5.6. Obligation for adhering to statutory norms and regulations laid down by any Statutory Body of Central/State Government in connection with installation and operating of CCTV and Video Management System shall be vested in the Agency.

7.5.7. Any type of statutory taxes applicable on services under this RFP and contract agreement (either in force at present or may be applicable in future by a competent order/notification) will be borne by the Agency and the BSCL would not make any payment on this account. In case, the Agency fails to comply with any statutory/ taxation liability under appropriate law, and as a result thereof the BSCL is put to any loss/obligation, monetary or otherwise, the BSCL will deduct the same from the Security Deposit of the Agency, to the extent of the loss or obligation in monetary terms.

APPENDIX - I: LETTER COMPRISING THE BID

(On the letterhead of the Bidder)

Ref.:   Dated:

To

General Manager (Administration)
Bhubaneswar Smart City Limited (BSCL)
Block-1, 5th Floor,
BMC-Bhawani Mall, Saheed Nagar,
Bhubaneswar – 751007, Odisha

Sub: <u>RFP FOR SUPPLY INSTALLATION, TESTING, COMMISSIONING AND O&M OF CCTV AND VIDEO MANAGEMENT SYSTEM</u>

Dear Sir,

   With reference to your RFP document dated _____, I/we, having examined the RFP document and understood its contents, hereby submit my/our Bid for Qualification for the aforesaid project. The Bid is unconditional and unqualified.

2. I/ We acknowledge that the BSCL will be relying on the information provided in the Bid and the documents accompanying the Bid for selection of the Bidders for the aforesaid project, and we certify that all information provided therein is true and correct; nothing has been omitted which renders such information misleading; and all documents accompanying such Bid are true copies of their respective originals.

3. This statement is made for the express purpose of qualifying as a Bidder for the aforesaid Project.

4. I/We shall make available to the BSCL any additional information it may find necessary or require supplementing or authenticate the Bid.

5. I/ We acknowledge the right of the BSCL to reject our Bid without assigning any reason or otherwise and hereby waive, to the fullest extent permitted by applicable law, our right to challenge the same on any account whatsoever.

6. I/We certify that in the last three years, we have neither failed to perform on any contract, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award, nor been expelled from any project or contract by any public authority nor have had any contract terminated by any public authority for breach on our part.

7. I/We declare that:

a) I/We have examined and have no reservations to the Bidding Documents, including any Addendum issued by the BSCL; and

b) I/We do not have any conflict of interest;

c) I/We have not directly or indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as defined in Section - 4 of the RFP document, in respect of any tender or request for proposal issued by or any agreement entered into with the BSCL or any other public sector enterprise or any government, Central or State;

d) I/We hereby certify that we have taken steps to ensure that in conformity with the provisions of Section - 4 of the RFP document, no person acting for us or on our behalf has engaged or will engage in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice; and

e) The undertakings given by us along with the application in response to the RFP are true and correct as on the Bid Due Date and I/We shall continue to abide by them.

8. I/We understand that you may cancel the Bidding Process at any time and that you are neither bound to accept any Bid that you may receive nor to invite the Bidders to Bid for the Project, without incurring any liability to the Bidders, in accordance with the RFP document.

9. I/We believe that we satisfy the Turnover criteria and meet all the requirements as specified in the RFP document.

10. I/We declare that we are applying individually for this tender.

11. I/ We certify that in regard to matters other than security and integrity of the country, we have not been convicted by a Court of Law or indicted or adverse orders passed by a regulatory authority which could cast a doubt on our ability to undertake the Project or which relates to a grave offence that outrages the moral sense of the community.

12. I/ We further certify that in regard to matters relating to security and integrity of the country, we have not been charge-sheeted by any agency of the Government or convicted by a Court of Law.

13. I/ We further certify that no investigation by a regulatory authority is pending either against us/ or against our Associates or against our CEO or any of our directors/ managers/ employees.

14. I/We undertake that in case due to any change in facts or circumstances during the Bidding Process, we are attracted by the provisions of disqualification in terms of the provisions of this RFP, we shall intimate the BSCL of the same immediately.

15. The Statement of Legal Capacity as per format provided at Annex-IV in Appendix-I of the RFP document, and duly signed, is enclosed. The power of attorney for signing of Bid as per format provided at Appendix II is also enclosed.

16. I/We, hereby irrevocably waive any right or remedy which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by the BSCL in connection with the selection of Bidders, or in connection with the Bidding Process itself, in respect of the above-mentioned Project and the terms and implementation thereof.

17. In the event of our being declared as the Selected Bidder, I/we agree to enter into a Contract Agreement in accordance with the form which shall be provided by BSCL. We agree not to seek any changes in the aforesaid form and agree to abide by the same.

18. I/ We have studied all the Bidding Documents carefully and also surveyed the project site. We understand that except to the extent as expressly set forth in the Contract Agreement, we shall have no claim, right or title arising out of any documents or information provided to us by BSCL or in respect of any matter arising out of or relating to the Bidding Process including the award of Contract.

19. I/ We agree and understand that the Bid is subject to the provisions of the Bidding Documents. In no case, I/we shall have any claim or right of whatsoever nature if the Project is not awarded to me/us or our Bid is not opened or rejected.

20. I/ We agree to pay the Contract value along with any applicable taxes thereon, in accordance with the terms of the Bidding Documents.

21. I/ We shall keep this offer valid for 180 (one hundred and eighty) days from the Bid Due Date specified in the RFP.

22. I/we agree and undertake to abide by all the terms and conditions of the RFP document.

In witness thereof, I/We submit this Bid under and in accordance with the terms of the RFP Document.

Yours faithfully,

Date: (Signature, Name and designation of the Authorized Signatory)
Place: Name and seal of the Bidder/ Lead Member

APPENDIX - I

ANNEX - I: DETAILS OF BIDDER

1.	Name of the Bidder Firm:	
2.	Registered Office Address of the Bidder Firm:	
3.	Legal status (Company / Partnership Firm / Proprietary Firm, etc.)	
4.	Country & Year of Incorporation:	
5.	Principle place of business:	
6.	Brief description of the bidder including details of its main lines of business and proposed role and responsibility in this Project:	
7.	Name, designation and Mobile Phone No. of the Authorized Representative of the Bidder to whom all references shall be made:	
8.	PAN Card No.	
9.	GST No.	

For the Bidder, state the following information:

SN	Statement	(Y/N)
(i)	Has the Bidder or any member of the consortium ever been penalized by any Government Department / Organization / PSU for poor quality of work or breach of contract?	
(ii)	Has the Bidder or any member of the consortium ever failed to complete any work awarded to it by any Government Department / Organization / PSU?	
(iii)	Has the Bidder or any member of the consortium ever been blacklisted by any Central / State government department / public sector undertaking / other government entities or local body	

Note: If answer to any statements at (i) to (iii) is yes, the Bidder is not eligible for this assignment.

(Signature, name and designation of the authorized signatory)
For and on behalf of ………………..

APPENDIX – I

ANNEX – II: TECHNICAL CAPACITY OF THE BIDDER

II A: <u>Abstract of Bidder Experience</u>

SN	Name of Project	Name of Client with Address and Contact No.	Date of Award of Contract / Assignment	Date of Completion of Assignment	Estimated Value of Contract (in Rs.Crore)	Attachments (Contract Agreement/ Work Order / Completion Certificates)
(1)	(2)	(3)	(4)	(5)	(6)	(7)

Note:

(i) The bidder should provide details of only those projects that have been undertaken by it under its own name.

(ii) The names and chronology of Eligible projects included here should conform to project-wise details submitted in form II B.

(iii) The bidder may attach separate sheets to provide brief particulars of other relevant experience of the bidder.

(Signature, name and designation of the authorized signatory)
For and on behalf of ………………..

II B: __Details of Bidder Experience__

[*The following information should be provided in the format below for each reference assignment for which your firm was legally contracted by the Client stated below for each assignment*]

Assignment name:	Estimated Value of Contract (in Rs. Crore):
Name & Address of Client:	
Country:	Location within country:
Period of Contract:	Details of services undertaken:
Start date (month/year): Completion date (month/year):	Approx. value of the services provided by your firm under the contract (in Rs):
Name of Joint Venture or Association Firms, if any for the assignment:	Number of professional staff-months provided by the Joint Venture or Associated Firm:
Name of Senior Staff (Project Director/Coordinator, Team Leader) involved and functions performed:	
Narrative description of Project:	

__(Certificate from Client regarding experience should be furnished)__*

(Signature, name and designation of the authorized signatory)

For and on behalf of ………………..

APPENDIX - I

ANNEX – III: FINANCIAL CAPACITY OF THE BIDDER

Name of the Bidder:………………………………………………….

1.   **Net Worth**

Financial Year	Net Worth (In Rs Crore)

2.   **Annual Turnover**

S.No.	Financial Year	Annual Turnover (In Rs Crore)
1		
2		
3		

3.   **Name and Address of the Bidder's Bankers**

(Signature, name and designation of the authorized signatory)

For and on behalf of_____

Signature & Stamp of Statutory Auditor/ Chartered Accountant

Membership No.

Regn. No. of the Statutory Auditor/ CA's firm:

Instructions:

1. Along with the above format in a separate sheet on the letterhead of the Statutory Auditor/ Chartered Accountant's Firm, duly signed Certified copies of ITR, Balance sheet and Profit & Loss Account statements are to be enclosed.

APPENDIX - I

ANNEX – IV: STATEMENT OF LEGAL CAPACITY
(On the Letter head of the Bidder)

Ref.   Date:

To,

General Manager (Administration)
Bhubaneswar Smart City Limited (BSCL)
Block – I, 5th Floor,
BMC Bhawani Mall, Saheed Nagar,
Bhubaneswar – 751007, Odisha

Sub: <u>RFP FOR SUPPLY INSTALLATION, TESTING, COMMISSIONING AND O&M OF CCTV AND VIDEO MANAGEMENT SYSTEM</u>

Sir,

We hereby confirm that we satisfy the terms and conditions laid out in the RFP document.

We have agreed that ……………….. (insert individual's name) will act as our representative and has been duly authorized to submit the RFP. Further, the authorized signatory is vested with requisite powers to furnish such letter and authenticate the same.

Yours faithfully,

(Signature, name and designation of the authorized signatory)
For and on behalf of………………………………

APPENDIX – II: POWER OF ATTORNEY FOR SIGNING OF BID

(On Rs 100/- Stamp Paper 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 …………………………………..(Address), 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 bid for the project "Supply Installation, Testing, Commissioning and O&M of CCTV and Video Management System" (the "**Project**") proposed or being developed by the Bhubaneswar Smart City Limited (the "**BSCL**") including but not limited to signing and submission of all applications, bids and other documents and writings, participate in pre-bids and other conferences and providing information / responses to BSCL, representing us in all matters before the BSCL, signing and execution of all contracts including the Contract Agreement and undertakings consequent to acceptance of our bid, and generally dealing with BSCL 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 entering into the Contract Agreement with the BSCL.

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 ………, 20...

<div align="right">

For……………………………..

(Signature)

(Name, Designation and Address)

</div>

Witnesses:

  1.
  2.

<div align="right">

(Notarized)

</div>

Accepted

…………….
(Signature)

(Name, designation 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.*

- *For a Power of Attorney executed and issued overseas, the document will also have to be legalised by the Indian Embassy and notarised in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders 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 Appostille certificate.*

APPENDIX – III: AFFIDAVIT

(On Rs 100/- Stamp Paper duly notarized)

I, ………………. S/o ………….., resident of ………………., the ……………...(insert designation) of the ………………..(insert name of the bidder), do solemnly affirm and state as follows :

1. That I am the authorized signatory of …………..(insert name of company) (hereinafter referred to as "Bidder") and I am duly authorized by the Board of Directors of the Bidder to swear and depose this Affidavit on behalf of the Bidder.

2. That I have submitted information with respect to our eligibility for Bhubaneswar Smart City Limited (hereinafter referred to as "BSCL") for Supply Installation, Testing, Commissioning and O&M of CCTV and Video Management System) (hereinafter referred to as "Project"), after going through the Request For Proposal ('RFP') document and I further state that all the said information submitted by us are accurate, true and correct and is based on our records available with us.

3. That I hereby affirm to furnish any information, which may be requested and as may be deemed necessary by BSCL to verify our credentials/information provided by us under this tender.

4. That if at any point of time including the Agreement Period, BSCL requests any further/additional information regarding our financial and/or technical capabilities, or any other relevant information, I shall promptly and immediately make available such information accurately and correctly to the satisfaction of BSCL.

5. That I fully acknowledge and understand that furnishing of any false or misleading information by us in our RFP shall entitle us to be disqualified from the bidding process for the Project. The costs and risks for such disqualification shall be entirely borne by us.

6. I state that all the terms and conditions of the Request for Proposal (RFP) Document have been duly complied with.

DEPONENT

VERIFICATION: -

I, the above-named deponent, do verify that the contents of paragraphs 1 to 6 of this affidavit are true and correct to my knowledge. No part of it is false and nothing material has been concealed.

Verified at ………………………., on this ……………………. day of …………………… 2022

DEPONENT

APPENDIX – IV: UNDERTAKING FROM THE BIDDER

(On the letter head of the Bidder)

To,

General Manager (Administration)
Bhubaneswar Smart City Limited (BSCL)
Block – I, 5th Floor,
BMC Bhawani Mall, Saheed Nagar,
Bhubaneswar – 751007, Odisha

Sub: <u>RFP for Supply Installation, Testing, Commissioning and O&M of CCTV and Video Management System</u>

Dear Sir,

We do hereby undertake that our company is not blacklisted/ debarred by any of the Central & State Governments or Public Sector Undertakings or other Government Authorities or Local Body in India as on the date of the submission of the RFP.

Also, none of the work has been rescinded / terminated by any Central or State Govt. Department / Public Sector Undertaking / Other Govt. entity or local body after award of contract to us during last 3 years due to our non-performance.

We further confirm that we are aware that our Proposal for the captioned Project would be liable for rejection in case any material misrepresentation is made or discovered regarding the requirements of this RFP at any stage of the Bidding Process or thereafter during the agreement period.

Dated this ……………………..Day of …………………., 20_

(Signature, name and designation of the authorized signatory)
For and on behalf of………………………………

APPENDIX - V:
FORM OF PERFORMANCE SECURITY

(On letter head of the Bidder)

[*On Appropriate Stamp Paper*]

Bank Guarantee No. [ ]

To

General Manager (Administration)
Bhubaneswar Smart City Limited
Block – 1, 5th Floor,
BMC Bhawani Mall, Saheed Nagar
Bhubaneswar, Odisha

WHEREAS …………………. (*supplier*), a company incorporated under the Company Act, ……… with its principal office at …………………………………… (hereinafter called "the supplier") has undertaken, in pursuance of contract no. ……………………………… dated ………… Supply Installation, Testing, Commissioning and O&M of CCTV and Video Management System in the City of Bhubaneswar as a part of the pan-city smart solutions, which involve the use of technology, information and data to improve the traffic infrastructure and services within the city of Bhubaneswar (the Project), as a part of the implementation of Smart Cities Mission in Bhubaneswar (herein after called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the Supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we 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 Firm, up to a total of Rs. ………………. /- (INR ………………… …………………... 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 Rs. ………………../- (INR ………………… …………………... 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 supplier 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 thereunder or of any of the contract documents which may be made between you and the supplier 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 the …. day of …………….

Our _____ branch _____*(Name & Address of the _____*branch) is liable to pay the guaranteed amount depending on the filing of claim and any part thereof under this Bank Guarantee only and only if you serve upon us at our _____* branch a written claim or demand and received by us at our_____* branch on or before Dt. ……………. otherwise bank shall be discharged of all liabilities under this guarantee thereafter.
…………………………………………..

(Signature of the authorized officer of the Bank)
………………………………………………………………………
Name and designation of the officer
…………………………………………………………………………..
…………………………………………………………………………..
Seal, name & address of the Bank and address of the Branch

*Preferably at the headquarters of the authority competent to sanction the expenditure for purchase of goods/ services.

APPENDIX – VI: DETAILED TECHNICAL SPECIFICATION

A. Video Management System

	Video Management System- Network Video Recorder & Recording Schedules	Compliance (Yes/No.)
1	The Network Video Recorder (NVR) will be connected via a Gigabit Ethernet network.	
2	The NVRs/Windows tools shall have a self-diagnostic feature including disk status, CPU usage and network status.	
3	The NVRs shall be support interface using 10/100/1000BaseTX. It shall support a total throughput of at least 512 Mbps.	
4	The NVR shall be powered using 100-240VAC/50Hz.	
5	Each NVR unit shall be maximum of 2U height.	
6	The NVR shall support Linux or Windows platform.	
7	The NVR shall be capable of digitally sign exported video to ensure chain of trust.	
8	The NVR shall have failover and redundancy built in with seamless playback without manual intervention.	
9	The NVR shall support a minimum of 200 recorded video streams and 20 playback streams with minimum playback of 400 Mbps.	
10	VMS shall be sized to provide minimum 30 days storage assuming recording of 24hrs a day, 7 days a week and 30 days a month at 4 CIF resolution. All NVRs shall be provided in an N+N configuration.	
11	The storage solution proposed is that the video feeds would be available for 30 days. After 30 days, the video feeds would be overwritten or archived unless it is flagged or marked by the Police or BSCL for investigation or any other purpose. The video feeds of all relevant cameras capturing the incident in question would be stored until the Police or BSCL deem it good for deletion.	
12	For incidents that are flagged by the Police, BSCL or any court order, the video of the relevant portion from all relevant cameras should be stored/archived separately for investigation purposes and a committee at Authority can decide when this video feed can be deleted.	
13	The system shall support H.264 or better, MPEG-4 and MJPEG compression formats for all IP cameras connected to the system.	
14	The system should not limit amount of storage to be allocated for each connected device.	
15	The system shall allow for the frame rate, bit rate and resolution of each camera to be configured independently for recording.	
16	The system shall allow the user to configure groups of cameras with the same frame rate, bit rate and resolution for efficient set-up of multiple cameras simultaneously	
17	The Recording Servers / System, once configured, shall run independently of the Video Management system and continue to operate in the event that the Management system is off-line.	

18	Archiving shall allow the duration of the camera's recordings to exceed the camera's default database capacity. Archives shall be located on either the recording server or on a connected network drive. If the storage area on a network drive becomes unavailable for recording the system should have the ability to trigger actions such as the automatic sending of email alerts to necessary personnel.	
19	Bandwidth optimization - The Recording Server / System shall offer different codec (H.264, MJPEG, MPEG-4, etc.) and frame rate (CIF, 4CIF, QCIF, 2MP) options for managing the bandwidth utilization for live viewing on the Client systems.	
20	From the Client systems, the user shall have the option of having video images continually streamed or only updated on motion to conserve bandwidth between the Client systems and the Recording Server.	
21	The Recording Server / System shall support Camera devices from various manufacturers.	
22	The Recording Server / System shall support the PTZ protocols of the supported devices listed by the camera OEMs.	
23	Failover Support - The system shall support automatic failover for Recording Servers. This functionality shall be accomplished by Failover Server as a standby unit that shall take over in the event that one of a group of designated Recording Servers fails. Recordings shall be synchronized back to the original Recording Server once it is back online. The system shall support multiple Failover Servers for a group of Recording Servers.	
24	SNMP Support - The system shall support Simple Network Management Protocol (SNMP) in order for third-party software systems to monitor and configure the system. The system shall act as an SNMP agent which can generate an SNMP trap as a result of rule activation in addition to other existing rule actions.	
	Video Management System-Functional Requirements	
25	VMS shall have in-built capabilities of recording video streams directly from IP based cameras installed at field.	
26	VMS shall be ONVIF compliant.	
27	VMS shall be capable of reviewing video streams on-demand using the supplied central software.	
28	VMS shall be capable of storing all alarms generated as part of the CCTV surveillance system.	
29	VMS shall be capable of supporting all recording of camera analytics.	
30	VMS shall be network enabled for remote access, viewing, management and status monitoring. User Name and Password protection is required for access. The system must provide for remote administrator management of user names, passwords and management of definable end user rights.	
31	A network user/client interface software shall be supplied at no cost to BSCL. The functional requirements of this client interface software will be reviewed and approved by BSCL or their designate.	
32	VMS Unit(s) shall provide fully configurable recording options to include, but not limited to: • Full record • Record on motion only • Variable frame rate • Variable resolution • Change of recording configurations on receipt of an alarm globally and/or per camera	

33	The system shall support the use of separate networks, VLANs or switches for connecting the cameras to the recording servers to provide physical network separation from the clients and facilitate the use of static IP addresses for the devices.	
34	Normal state (non-alarm) recording configuration to provide for "Detection" and as follows: • Resolution HD • Normal Frame rate of 25 FPS	
35	Alarm state recording configuration to provide for "Recognition" and as follows: • Resolution of HD • Frame rate of 25 FPS	
36	Central software application to be installed at the ICOMC shall be able to run on any PC based on standard operating systems.	
37	Video Management System (VMS) shall be non-proprietary and open-ended to support integration with ICOMC platform.	
38	Central Application Server shall allow user to view live video stream.	
39	Software shall consist of a single client application and the client software shall not be dependent on, require any connection to, a central management or configuration server for security reasons.	
40	The system shall support a distributed architecture with no single point of failure.	
41	Video shall normally stream direct from recording server to client due to security reason	
42	A client or any other operator shall ask "permission" to connect to a camera	
43	There shall be no single management server. System management shall be distributed throughout the system	
44	Recording failover shall be standard without need for additional license and/or hardware.	
45	It should be possible to record to multiple recorders at the same time.	
46	Client workstations must remain "connected" to all recording devices simultaneously.	
47	VMS/Camera shall allow the overlay of time and date and site information on live video panes, either on all panes, or selected pane only.	
48	VMS shall allow users to view live video and review recorded video at the same time	
49	VMS shall be ONVIF compliant.	
50	Users shall be able to display any camera view (virtual preset).	
51	VMS shall allow users to review the hidden/privacy zone in live video, if the user has the appropriate permission.	
52	Administrators shall be able to configure hidden/privacy zone on cameras	
53	VMS shall allow the display of analytics on video	
54	Users shall be able to take a snapshot of one image or all images currently displayed and save as a bitmap or JPEG image to a configurable location. This should include zoomed images	
55	Users shall be able to print a snapshot of an image displayed in a video pane direct on a printer (colour or grayscale, depending on printer).	
56	Users shall be able to replay currently viewed live video by a single mouse click for replays from 10, 15 or 30 seconds before current time or from alarm time.	

57	In the event of the video connection failing, the Video Management System shall display a clear error message.	
58	Option to view Surrounding Cameras: the system shall enable the operators to configure camera feed and based on group/ sub-group details, it's surrounding camera should be automatically displayed on separate pane based on alarms	
59	Live Video on Digital Monitors: The Video Management System shall be able to display camera information in the On Screen Display (OSD) of a monitor: Ø Camera name Ø Date and time	
60	PTZ Control: · All PTZ control shall be user-restricted. · Users shall be able to simultaneously pan and tilt a PTZ camera displayed in a video pane in any direction and at varying speed by moving the PC mouse on the video pane. · Users shall be able to zoom a PTZ camera in or out using the PC mouse. · Users shall be able to simultaneously pan, tilt and zoom a PTZ camera displayed in a video pane or monitor using a joy stick on one of the supported CCTV keyboards. · Users shall be able to adjust the focus of a PTZ camera using the on screen PTZ controls or a CCTV keyboard: Ø Focus near Ø Focus far Ø Auto-focus · Users shall be able to adjust the iris of a PTZ camera using Close-Auto-iris. · Users shall be able to move a PTZ camera to a preset position using the on screen PTZ controls or a CCTV keyboard. · Users shall be able to perform a custom command on a PTZ camera using the on screen PTZ controls (e.g. operate wipers.). · Users shall be able to enter the menu on a PTZ camera using the on screen PTZ controls or a CCTV keyboard (menu options navigated using pan and tilt.). · Users shall be able to hold onto connections to PTZ cameras to prevent other users taking control if not moved (overrides the 5 second timeout.). · Users shall be able to take control of a PTZ camera if user has a higher priority than the user currently moving it(overrides PTZ hold.). · Inform user when can't take control of a PTZ camera because another user with a higher priority is controlling it. · Users shall be able to show or hide the on screen PTZ controls. · The Video Management System shall support the following for cameras using the ONVIF interface or Camera Gateway: Ø Pan, tilt and zoom control with mouse and joystick Ø Go to preset Set preset	

61	Timeline and Calendar: • Users shall be able to view the recorded video footage for a camera along a timeline. They shall be able to expand and contract the timeline to show a larger or smaller time range and to scroll the timeline backwards and forwards to show different time periods. • Users shall be able to use the mouse wheel to both scroll and expand/contract the timeline. • For a camera, users shall be able to see summary information about how much recording footage is available from which NVR. • Users shall be able to change the playback NVR associated with a camera. • The Video Management System shall provide onebutton click controls to go to the beginning or the end of available recording footage. • The Video Management System shall provide a calendar control to allow navigation to any year / month /day in the recording library. • The Video Management System shall provide a go to "today" control for getting current recording footage. • The Video Management System shall provide a go to"hour / minute / second" control. • The Video Management System shall display alarms related to the selected camera along the timeline including summary counts of the number of alarms in each time period. Ø The Video Management System shall display video bookmarks along the timeline. Bookmarks can either be those from a selected camera or from current bookmark query as displayed in the bookmark list.	
62	Playback on PC Screen or Video Wall: · The Video Management System shall play back video recorded in MJPEG, MPEG4 and H.264 formats. · The Video Management System shall replay footage in same video pane, or navigate to recorded video panes. · The Video Management System shall play back video from up to 25 cameras at once in a single video window. · The Video Management System shall play back each camera separately or synchronize to playback from the same time. · The Video Management System shall display time and date information on recorded video panes, either on all video panes, or on the selected pane only. This should be able to be set independently of the settings for live video panes. · The Video Management System shall play back video using the following standard VCR operations: Ø Play-pause-fast forward at different speeds. Ø Rewind at different speeds. Ø Single frame forward-single frame back. · Users shall be able to move playback to a different time either using the timeline or entering a specific date and time. · Users shall be able to move playback to the time of the next alarm or bookmark or motion over threshold. · Users shall be able to digitally zoom up to 10x and scroll replayed video. · Users shall be able to display analytics on video. · Users shall be able to take a snapshot of one image or all images currently displayed and save as a bitmap or JPEG image to a configurable location. This should include zoomed images. ·Users shall be able to print a snapshot of an image displayed in a video pane direct to a printer (colour or grayscale, depending on printer.).	

63	Motion Search: · Users shall be able to find motion in recorded footage from a selected time and display a motion profile on the timeline. · Users shall be able to configure a region of interest for motion search. The Video Management System shall support the following options for motion search: Ø General motion search – for motion in any direction	
64	Timeline and Calendar: • Users shall be able to view the recorded video footage for a camera along a timeline. They shall be able to expand and contract the timeline to show a larger or smaller time range and to scroll the timeline backwards and forwards to show different time periods. • For a camera, users shall be able to see summary information about how much recording footage is available from which NVR. • Users shall be able to change the playback NVR associated with a camera. • The Video Management System shall provide onebutton click controls to go to the beginning or the end of available recording footage. • The Video Management System shall provide a calendar control to allow navigation to any year / month /day in the recording library. • The Video Management System shall provide a go to "hour / minute / second" control. • The Video Management System shall display alarms related to the selected camera along the timeline including summary counts of the number of alarms in each time period. • The Video Management System shall display video bookmarks along the timeline. Bookmarks can either be those from a selected camera or from current bookmark query as displayed in the bookmark list.	
65	Playback on PC Screen or Video Wall: • The Video Management System shall play back video recorded in MJPEG, MPEG4 and H.264 formats. • The Video Management System shall replay footage in same video pane, or navigate to recorded video panes The Video Management System shall play back video from up to 25 cameras at once in a single video window. • The Video Management System shall play back each camera separately or synchronize to playback from the same time. • The Video Management System shall display time and date information on recorded video panes, either on all video panes, or on the selected pane only. This should be able to be set independently of the settings for live video panes. • The Video Management System shall play back video using the following standard VCR operations: Ø Play-pause-fast forward at different speeds. Ø Rewind at different speeds. Ø Single frame forward-single frame back. • The Video Management System shall provide a jog shuttle speed control for fast forward and rewind. • Users shall be able to move playback to a different time either using the timeline or entering a specific date and time. • Users shall be able to move playback to the time of the next alarm, bookmark or motion over threshold. • Users shall be able to move playback to the time of the previous alarm, bookmark or motion over threshold. • Users shall be able to digitally zoom up to 1000% and scroll replayed video.	

	• Users shall be able to remove interlacing artefacts from video. • Users shall be able to display analytics levels on video. • Users shall be able to take a snapshot of one image or all images currently displayed and save as a bitmap or JPEG image to a configurable location. This should include zoomed images. • Users shall be able to print a snapshot of an image displayed in a video pane direct to a printer (colour or grayscale, depending on printer.).	
66	a. Users shall have the ability to produce a simple easy to view video summary of an incident. b. Users shall have the ability to export all video associated with this summary c. All video in this export should be fully watermarked	
67	Playback on Monitors: • Users shall be able to play back recorded video on monitor from a selected time. • The Video Management System shall support basic play back operations on an analog monitor: • Play. • Pause	
68	• Users shall be able to start an instant recording from live video viewed in a video pane. They shall have the option to start recording video.	
69	Users shall be able to configure the recording schedule for cameras on NVRs. Recording can be configured to be: • 24/7 • Timed (from minute to weekly schedules) • On alarm or event	
70	• Users shall be able to specify the transport protocol to be used for recording (TCP, UDP, and Multicast.).	
71	Users shall be able to specify whether the recording should be protected when an alarm or event occurs (from a specified time before the alarm / event.).	
72	Users with appropriate permissions shall be able to enable or disable recordings temporarily	
73	Users shall be able to delete recording schedules.	
74	Users shall be able to copy recording schedules from one camera to other cameras on the same or another NVR.	
75	The Video Management System shall support digital signing on exported clips.	
76	Users shall be able to find recordings within a specified time period.	
77	The Video Management System shall display a warning message, if an NVR is unable to retain the number of days recording for which it was configured	
78	The Video Management System shall automatically failover when a primary NVR is down.	
79	In addition, users shall have the option to manually failover, for example to allow for routine maintenance of a primary NVR.	
80	Users shall have the option to manually fail back to a primary NVR, with the option to restore the recording configuration from the failover NVR to the primary.	
81	The Video Management System shall support binary inputs on IP Cameras, encoders, decoders and alarm panels.	

82	The Video Management System shall support alarm inputs from 3rd party systems.	
83	Users shall be able to sort the alarm information in various ways by clicking on column headings.	
84	The Video Management System shall support to configure alarm such that alarms are only generated on specific events.	
85	Users shall be able to configure the time schedule for each camera –different start and end times for each camera shall be supported.	
86	Users shall be able to define specific dates and times within time schedules so that exceptions for holidays etc. can be specified.	
87	The Video Management System shall enable the same time schedule to be applied to multiple cameras.	
88	Users shall have the option of restoring the previous view after an alarm has been cleared.	
89	Users shall be able to manually configure alarms.	
90	Users shall be able to specify a priority for each alarm camera.	
91	The Video Management System shall allow alarms to be configured to require text from a user at the point of acknowledging.and at the point of clearing.	
92	The Video Management System shall allow operator to see instruction/procedure document (.html, text or URL) for an alarm. Operator may pull this procedure document when an alarm is triggered.	
93	Users shall be able to configure the actions that should be performed when an alarm occurs: · Show video from camera, camera view or salvo in specified monitors · Stop video when alarm cleared · Move camera to preset position · Send email to multiple recipients, with option to include snapshots · Perform a relay action automatically · Start recording one or more camera – records for specified duration Auto-protect recording from a specified duration before the alarm	
94	The Video Management System shall support the following for 3rd Party cameras through native protocols and / or ONVIF: · Motion detection events · Record on motion · Video loss · Network loss Change video quality on event, including frame rate, resolution and bitrate	
95	The Video Management System shall have permissions to determine which users or user groups get access to which alarm groups and which windows are used to display alarm video.	
96	Users shall be able to configure any of the available viewing panes or analog monitors as a spot monitor for viewing significant live footage.	
97	The Video Management System shall alert new alarms with flashing icon and optionally a sound.	

98	The Video Management System shall automatically perform the actions configured for the alarm zone or detector: · Show video from camera, camera view or salvo in specified video panes or monitors · Move camera to preset position · Stop video when alarm cleared · Perform a relay action · Start recording one or more cameras Auto-protect recording from a specified duration before the alarm	
99	When an alarm happens, the Video Management System shall be able to show live video from a camera on one pane and beside it show a looped replay / sequencing from just before the alarm to just after or as alternative, live to playback switching shall be supported.	
100	The users shall be able to display a map showing the location of the alarm.	
101	Users shall be able to view pending alarms in a list ordered by priority and time.	
102	Users shall be able to filter the alarm list to show alarms only from specific areas (sites and zones.).	
103	The Video Management System/Smart City Platform shall be able to display alarm procedure document for the alarm.	
104	The Video Management System/Smart City Platform shall allow users to acknowledge alarms, entering alarm response text as required	
105	The Video Management System/Smart City Platform shall allow users to update the alarm response text at any time before the alarm is cleared. : Ready. Earlier written alarm response text should remain intact.	
106	The Video Management System/Smart City Platform shall allow users to clear alarms, entering alarm response text as required.	
107	Users shall be able to find historical alarms matching specified criteria: · Alarm type: · Alarm state (new, acknowledged, cleared)Alarm, ACK, OK · From site(s): Location · From alarm zones(s): Area · User(s) who acknowledged or cleared: *?* Time range	
108	The Video Management System/Smart City Platform shall be able to escalate alarms to other user groups if the alarm is not acknowledged within a pre-defined time period.	
109	Users shall be able to produce reports of historical alarms and events and export to RTF or CSV formats.	
110	Users shall be able to view live or recorded video associated with the alarm.	
111	The Video Management System shall ensure that alarms are held on an alarm server, not on a user's PC.	

112	The Video Management System (VMS) shall support integration with external data sources.	
113	The VMS shall support up to 1 external data record every second	
114	The VMS shall support up to 2 million data records	
115	The VMS shall allow for the association of data records with video data.	
116	Integration shall be available via a freely available open interface. The interface shall be via a software development kit.	
117	Users shall be able to configure relay actions using binary outputs on IP Cameras, encoders and decoders.	
118	Users shall be able to configure relay actions using external outputs to 3rd party systems.	
119	The relay activation shall be triggered based on the event detected at field.	
120	The Video Management System shall support latched relay outputs.	
121	Users shall be able to associate relay actions with specific cameras so that the actions are readily available when video is displayed from that camera.	
122	The Video Management System shall perform relay actions on alarm and event.	
123	The Video Management System shall automatically check for devices not on the network and notify users when not available.	
124	It shall be possible to define the users who get notified, if devices become unavailable.	
125	The Video Management System shall scan for devices using any combination of IP broadcast addresses, individual IP addresses or ranges of IP addresses.	
126	Users shall be able to turn off scanning of devices.	
127	The Video Management System/NMS shall notify users when device times are not synchronized with the viewing PC (more than 60 seconds out).	
128	The Video Management System shall notify users of problems with NVRs. The notifications will be those supported by each NVR.	
129	Users shall be able to view the current status of an NVR with visual indicators showing whether each item is OK or indicates problems: · Total disk space · Minimum free disk space · Used disk space (total – free) · Percentage space used (used disk space / total disk space) Any additional features supported by the NVR.	

130	Users shall be able to view reports for NVR/VMS and display the following information: · Start time of first recording · End time of last recording · Total size of all recording Total duration of all recordings	
131	The Video Management System shall provide a support information tool, which gathers together log files and site database into a zip file.	
132	Users shall be able to configure named user groups. A group can be granted administrator rights: · Full (can configure everything) · Restricted (can configure everything except users and groups) No configuration rights (limited user functions only)	
133	The Video Management System shall be able to hide administration options from normal users. The user interface shall be cleanly split into administrative functions and operational functions. Users who do not have administrative rights shall get a much simpler interface so that they are not confused by visible but disabled features.	
134	Users shall be able to configure named user accounts and allocate them to user groups.	
135	Users shall be able to enable and disable user accounts	
136	Users shall be able to set-up a user to use either machine OS standard authentication or a password when he logs into the Video Management System.	
137	Users shall be able to limit the total number of video streams (live or recorded) that can be displayed at once on monitor.	
138	• Users shall be able to allocate each user group or user a priority that is used when controlling PTZ cameras.	
139	Users shall be able to grant global permissions to user groups or users (global permissions do not apply to specific objects such as cameras): PTZ hold (allows a user to keep control of a PTZ camera when not moving it)	
140	**Access any object in the system (sites, cameras, monitors, salvos, alarm zones, detectors and relays.) For each object access can be limited by function:** **· List – see object in the user interface** **· View – view video from cameras, sequences, salvos and guard tours** ** Playback recording from a camera or salvo** **· Record – make an instant recording of a camera** **· Export video clips or take snapshots from a camera** **· Control a PTZ camera** **· Display video on a monitor or video wall or activate a relay** **· Respond to alarms from an alarm zone** **· Set and unset an alarm** **Configure presets and access the camera menus**	

141	Users shall be able to reset access permissions on individual objects to use the access permissions.	
142	Users shall be able to configure application settings specific to each PC, including: · Enable or disable scheduled tasks · Location for snapshot images · Format of snapshot image (bitmap or JPEG) · Folder for snapshot image · Replay incident in live or Playback view · Use software or hardware assisted video renderer · Enable or disable use of a CCTV keyboard · CCTV keyboard type · Resize text on video panes in proportion to video pane size · Video pane icon size (normal, medium, large) · Select icon size on video panes in proportion to video pane size · Date / time display on video panes (none, all, selected) · Load bookmarks on startup · Spot monitor (external monitor or specified video pane) · Protect recordings by default when exporting Write date and time on exported recordings	
143	Users shall be able to configure the use of buffered playback when reviewing recordings.	
144	Users shall be able to enable or disable alert messages.	
145	Users shall be able to log into the Video Management System manually.	
146	It shall be possible to start the Video Management System from the command line with the following options. · Username and password · Normal, full screen or video-only modes Site database	
147	The Video Management System shall allow users to log out and log in without closing the application	
148	The Video Management System shall have an option to require all users to re-enter their password when logging out or automatically logout based upon time-out	
149	• Users shall be able to change their own password (if given write permission to the site database).	
150	Administrator users shall be able to lockout all other users preventing them from viewing or recording video from a selected camera or all cameras in a selected site.	
151	The Video Management System shall support an audit trail that can log user actions to an industry standard database e.g. SQL Server.	

152	Users shall be able to specify the authentication method to be used between the client application and the audit trail database: · Local user password Windows user password	
153	The audit trail shall log the following user actions to the audit trail database: · User logged on : ALARM EVENT REPORT: RPT002 · User attempted to log on and was denied access: ALARM EVENT REPORT:RPT001 · User logged off : ALARM EVENT REPORT: RPT005 · User acknowledged an alarm : ALARM EVENT REPORT:RPT006 · User cleared an alarm : ALARM SHELVING RPT007 · User received an alert message (e.g. device not available): RPT022 · User denied playing back a recording or playback failed · User took control of a PTZ camera :RPT009 · Export recordings : user activity · Protect recordings · Manual start or stop recording : user activity report RPT010 · Creation, deletion or editing items stored in the Video: RPT14 for creation, RPT15 for Deletion, Management System configuration database: RPT11 User created a bookmark : user activity - Report RPT003 & RPT025	
154	**The audit trail shall log the following information for each entry in the audit log:** · Date and time that the user performed the action in UTC : USER ACTIVITY REPORT:rpt016 · Name of the user performing the action : USER ACTIVITY: rpt016 · DNS name of computer running in ICOMC : RPT016 · The name of the application writing to the log: CAMERA WRITING USER ACTIVITY: RPT016 · A string naming the type of action performed e.g. Log on : USER ACTIVITY: RPT017 · Name and matrix number of the object that the action applies : to e.g. camera name and number : ALARM AND EVENT: RPT018 · Further information about the action, in a structured form e.g.: ALARM EVENT "Alarm Time: 16-Feb-06 10:11:41, Alarm Response: False alarm": RPT0 Severity (applies to error message received log entry only) : ALARM EVENT PRIORITY: RPT020	
155	The user shall be able to export a report from the audit trail database into a standard reporting tool, e.g. Excel.	
156	The Video Management System shall discover IP Video devices on a network either by broadcast address or unicast addresses for each device.	
157	The Video Management System shall allow configuration of IP Video System devices via their web configuration interface.	
158	The Video Management System shall enable configuration of devices, in particular encoder settings on IP cameras and encoders.	

159	Administrators shall be able to view video from each stream at the same time as making changes to the media parameters on an encoder to aid configuration	
160	Administrators shall be able to upgrade the firmware on IP Video System devices - multiple devices can be upgraded in one go through the system.	
161	Administrators shall be able to create a hierarchy of sites and sub-sites for organizing cameras and other items by location.	
162	Administrators shall be able to set the time-zone on a site - different sites can each have their own time zone.	
163	Users shall be able to reorder sites under their parent site (sites are ordered by number).	
164	The Video Management System shall be able to automatically create a site hierarchy within a site database containing IP Video System devices visible on the network.	
165	Users shall be able to create sequences and salvos within the sites, set up 24/7 recording for each camera and enable video loss and network loss alarms.	
166	Users shall be able to add cameras, monitors, alarm panels, alarm servers and NVRs to sites by dragging and dropping, selecting from a list or manually entering the IP Address and name.	
167	Users shall be able to remove devices from sites.	
168	Users shall be able to enter a localized display name for cameras, monitors, alarm panels, alarm servers and NVRs which overrides the name stored on the device.	
169	The Video Management System shall enable a copy of the configuration database to be cached locally on each user workstation to ensure continuity of operation when a connection to the central database is not available.	
170	The Video Management System shall support a configuration database that is divided into multiple 'segments', e.g. one segment for each site. The Video Management System shall allow each segment to be configured and accessed independently.	
171	The Video Management System shall support user access permissions so that only authorized users can access specific segments.	
172	When the configuration database is divided into segments, the Video Management System shall allow all sites to monitored e.g. from a central monitoring facility	
173	Users shall be able to create one or more maps for each site by importing an image for the background. The following image formats shall be supported: · Bitmap (BMP) · JPEG (JPG) · Portable Network Graphics (PNG)	
174	Users shall be able to add links to other maps.	

175	Users shall be able to reposition items by drag and drop or entering specific coordinates.	
176	Users shall be able to add cameras to map.	
177	Users shall be able to specify the field of view for each camera.	
178	Users shall be able to specify the amount of detail displayed for each object including icons, matrix numbers and labels (camera name & no.)	
179	Colour schemes shall be configurable to make text and fields-of-view more visible	
180	The map shall be fully scalable with zoom and pan supported under mouse control	
181	Users shall be able to displays the previous maps viewed (back, forward).	
182	Users shall be able to link to any map from any map.	
183	The map should be viewable on a separate monitor from the main video(s).	
184	Users shall be able to display live and recorded video from any camera on a map.	
185	Users shall be able to view video from some or all of the cameras on a map	
186	Users should be able to click on the field-of-view of any camera to view the video	
187	Where fields-of-view overlap, clicking on the convergent area should result in all cameras being displayed.	
188	Activated alarms shall be visually represented on the map.	
189	Where detector/zones areas have been configured, these should be visually represented as being in an alarmed state	
190	Where detector/zones areas have been configured and in an alarmed state, the user should be able to start video from all cameras associated with that zone by clicking on it.	
191	Users shall be able to: · Manage alarms from a map · Clear alarms: ready · Acknowledge alarms · View Video associated with an alarm · Isolate/restore alarms Configure Cameras/Detectors	
192	Users shall be able to trigger events to binary outputs on cameras or encoders	

193	The Video Management System shall include a restricted access version of the video viewing and replay application that prevents all users from accessing the setup screens	
194	The Video Management System shall provide a restricted access site database management utility, which prevents creation of new site databases	
	Video Management System-Technical Requirements	
195	The Video Management System shall provide a restricted access version of the video viewing and replay application, which prevents all users from modifying the audit log configuration even if they have an administrator login.	
196	The software shall be able to run on any PC based on industry standard OS.	
197	The software shall support ONVIF compliant cameras and devices.	
198	The software shall show live video from IP Cameras and Video Transmitters in MJPEG, MPEG4 and H.264 formats.	
199	The software shall support cameras with resolutions ranging from Standard Definition, High Definition (HD) and up to 5 Megapixel	
200	The software shall show video across 4 displays per workstation - each display can have up to 25 viewing panes	
201	The software shall allow configuration of the video stream settings for each user, depending on the support hardware.	
202	Users shall be able to change the video pane layout in each of the 4 screens independently: • Grid layouts: 1x1, 2x2, 3x3, 4x4, 5x5 • Widescreen layouts: 2x3, 3x4, 4x6 • Hotspot layouts based on 3x3, 4x3, (1+7) 4x4, 5x5 larger pane in top, left • Hotspot layouts based on 4x3 , 4x4, 5x5 larger panes in centre	
203	Users shall be able to change the aspect ratio in each of the 4 video windows independently in order to display Standard Definition or High Definition video. Choose between: • Widescreen (16:9) • Standard (4:3)	
204	Users shall be able to move any image from one display screen to another via drag-and-drop.	
205	Users shall be able to digitally zoom up to 1000% and also digitally scroll live video from any camera using the mouse wheel.	
206	Deleted	
207	Users shall be able to view stream statistics on all current video streams, including the following information: • Frame rate • Resolution (4SIF,720p, 1080p, 5MP) • Current bit-rate	

B. CCTV

SI.No.	CCTV -Fixed Camera (Functional Requirements)	Compliance (Yes/No.)
1	The cameras implemented as part of this Project shall be rated for operations in outdoor environment (for outdoor installations) and depending on the objective/application, shall be of different configurations including PTZ or fixed cameras.	
2	All the Cameras shall be IP based.	
3	The CCTV surveillance system shall be ONVIF compliant.	
4	All cameras shall support real-time video content analysis.	
5	All CCTV cameras shall be installed on streetlight poles. If poles are not available additional poles may be proposed	
6	Indicative list of capabilities are as follows: • Real-time monitoring of City; • Event based monitoring of City; • Providing secured access to video at any time from any network location; • Situation/Rule based alerts based on user inputs; • Access to historic video data for investigative purposes.	
7	The surveillance system shall support following Built-in-Analytics for the Cameras or using central analytics: • AutoTracker: To detect and track movement in the field of view. • Adaptive Motion Detection: To detect and track object that enter a scene and then triggers an alarm when the object enter a user-defined zone. • Camera Sabotage: Triggers an alarm if the lens is obstructed. • Directional Motion: Generates an alarm in a high traffic area when a person or object moves in a specified direction. • Object Counting: To count the number of objects that enter a defined zone. • Stopped Vehicle: To detect vehicles stopped near a sensitive area longer than the user-defined time allows.	
8	Event (alarm) Handling: • The camera shall be capable of recording an event as pre and post event images to on-board SD Media Card and on NVR. Events may be triggered using camera motion detection or from an external device input such as a relay. • When triggered from an external input or the camera's motion detector, the camera shall be capable of sending JPEG images via e-mail and/or sequences of images to an FTP server or on-board compact flash and NVR. • A relay output shall be available upon the activation of the camera's motion detector or external relay input. The relay output may also be manually activated from the live view screen.	
9	The camera control shall comply with the latest release of Open Network Video Interface Forum (ONVIF) standards.	
10	The camera shall incorporate AGC circuitry to provide for compensation at low light levels.	
11	The lens shall be integrated with the camera.	
12	Video output resolution shall not be less than 2560x1440 pixels.	

13	The camera shall be capable to produce minimum 25 frames per second (fps).	
14	The camera shall provide automatic white balance, automatic exposure, automatic gain control, electronic shutter, and backlight compensation.	
15	The camera shall be a true day/night cameras with mechanical IR cut filter.	
16	The camera shall be capable of providing a high contrast colour picture with a full video output at a minimum illumination as mentioned in the specifications.	
17	All cameras shall capture high definition video, compress the video using H.264 technique and transmit real-time using fibre optic based communications system.	
18	The cameras shall capture audio and compress using G.711 technique and transmit real-time using fibre optic based communications system.	
19	All cameras shall support on-board real-time video content analysis.	
20	All cameras shall support both Constant Bit-Rate (CBR) and Variable Bit- Rate (VBR) options.	
21	The camera shall support up to 2 video profiles, each providing independent configuration of bitrate, framerate and resolution.	
22	The camera shall support video compression up to 6Mbps.	
23	The camera shall support audio compression using the G.711 compression algorithm, streaming @ 32Kbps per channel sampled at 8KHz or 16KHz with a 16bit resolution.	
24	The camera shall support on-board storage via micro SDHC slot and card with a minimum capacity of 64 GB.	
25	All cameras shall have integral in-built or external adaptive IR technology. For fixed cameras, the IR shall support a range of at least 30m	
26	For Fixed Cameras: • The fixed camera shall provide a minimum focal length range of 3-10 mm compensated with digital zoom and shall be remotely controllable from the camera control transmitter at ICOMC. • The fixed camera shall capture video using 1/3" progressive scan CMOS or better. • Fixed Camera resolution shall be 2560x1440 or better.	
27	All cameras shall provide effective 24/7 imaging performance for CCTV surveillance applications.	
28	All cameras shall provide user control, with remote configuration for functions including streaming and compression settings, exposure, white balance, flicker control, picture size, cropping/privacy, brightness, sharpness, saturation, day-night switching point, frame rate, image rotation, snapshot, dynamic bandwidth allocation and motion detection.	
29	The camera shall use an Ethernet 10/100Base-TX network interface with RJ45 connector.	
30	The camera and the associated equipment shall support communication protocols IPv4, IPv6, TCP, UDP, HTTP, HTTPS, DHCP, IGMP, ICMP, ARP, SNMP, Telnet, FTP, NTP, RTSP, and RTP as a minimum.	
31	The camera shall incorporate a built-in web server, built-in FTP server, and a built-in FTP client.	

32	The cameras shall have, at a minimum, the following configurable features: • Image resolution. • Frame rate. • Image quality adjustments (brightness and contrast) • Source and destination IP address settings • UDP port number • Bandwidth limits • Unicast and multicast settings, • Support for two (2) simultaneous unicast streams.	
33	The cameras shall support at the minimum three individually configured video streams. The cameras shall be capable of three or more simultaneous streams with one of the streams being in H.264 format.	
34	All cameras shall have an operating temperature range of 0°C to +55°C at humidity: 5% -95% RH.	
35	The environmental housing shall be of suitable size and provide a temperature controlled atmosphere for the camera, lens and receiver- driver.	
36	The housing shall allow for easy disconnect of all external cables.	
37	The housing, mounting arm and the dome camera installed assembly shall be suited to withstand wind gusts of 150 km/h.	
38	The housing for CCTV shall meet the IP66 for protection	
39	The cameras shall have a Mean Time Between Failure (MTBF) of at least 100,000 hours	
40	Cameras along with related software needs to be integrated with the existing surveillance maintained by BSCL at Datacentre	

SI.No.	CCTV -PTZ Camera (Functional Requirements)	Compliance (Yes/No.)
1	The cameras implemented as part of this Project shall be rated for operations in outdoor environment (for outdoor installations) and depending on the objective/application, shall be of different configurations including PTZ or fixed cameras.	
2	All the Cameras shall be IP based.	
3	The CCTV surveillance system shall be ONVIF compliant.	
4	Cameras shall have an integral receiver/driver that shall be capable of controlling pan-tilt, zoom and focus locally and also remotely from the ICOMC.	
5	All cameras shall support real-time video content analysis.	
6	All CCTV cameras shall be installed on streetlight poles. If poles are not available additional poles may be proposed	

7	Indicative list of capabilities are as follows: • Real-time monitoring of City; • Event based monitoring of City; • Providing secured access to video at any time from any network location; • Situation/Rule based alerts based on user inputs; • Access to historic video data for investigative purposes.
8	The camera control shall comply with the latest release of Open Network Video Interface Forum (ONVIF) standards.
9	The camera shall include an integral receiver/driver. The receiver/driver shall be capable of controlling pan-tilt, zoom and focus locally and remotely from the ICOMC.
10	The camera shall incorporate AGC circuitry to provide for compensation at low light levels.
11	The lens shall be integrated with the camera.
12	Video output resolution shall not be less than 1920x1080 pixels.
13	The camera shall be capable to produce minimum 25 frames per second (fps).
14	The camera shall provide automatic white balance, automatic exposure, automatic gain control, electronic shutter, and backlight compensation.
15	The camera shall be a true day/night cameras with mechanical IR cut filter.
16	The camera shall be capable of providing a high contrast colour picture with a full video output at a minimum illumination as mentioned in the specifications.
17	All cameras shall capture high definition video, compress the video using H.264 technique and transmit real-time using fibre optic based communications system.
18	The cameras shall capture audio and compress using G.711 technique and transmit real-time using fibre optic based communications system.
19	All cameras shall support on-board real-time video content analysis.
20	All cameras shall support both Constant Bit-Rate (CBR) and Variable Bit- Rate (VBR) options.
21	The camera shall support up to 2 video profiles, each providing independent configuration of bitrate, framerate and resolution.
22	The camera shall support video compression up to 6Mbps.
23	The camera shall support audio compression using the G.711 compression algorithm, streaming @ 32Kbps per channel sampled at 8KHz or 16KHz with a 16bit resolution.
24	The camera shall support on-board storage via micro SDHC slot and card with a minimum capacity of 64 GB.
25	All cameras shall have integral in-built or external adaptive IR technology. For PTZ it shall support a range of at least 200m moving with zoom (adaptive).

26	For PTZ Cameras: • Camera shall have capabilities of PAN of 360° continuous. • Camera shall have capabilities of Tilt of 180°. • Lens of 6mm-129mm with minimum 20X optical and 12X digital zoom. • PTZ camera shall capture video using minimum 1/3" type CMOS sensor or better. • It shall support resolution of 1920x1080 or better. • Camera shall support tilt of 100° either side. The tilt capability shall include both the horizontal (level view) and vertical (downward view) position. If the camera travels beyond straight down, automatic image flip circuitry shall prevent the display of an inverted image. • The pan and tilt mechanism shall be an integral part of the camera. • Pan speed shall be upto 160°/s and Tilt speed upto 120°/s.	
27	There shall be a minimum of 100 assignable automatic pre-set positions.	
28	There shall be a minimum of 8 definable privacy zones.	
29	All cameras shall provide effective 24/7 imaging performance for CCTV surveillance applications.	
30	All cameras shall provide user control, with remote configuration for functions including streaming and compression settings, exposure, white balance, flicker control, picture size, cropping/privacy, brightness, sharpness, saturation, day-night switching point, frame rate, image rotation, snapshot, dynamic bandwidth allocation and motion detection.	
31	The camera shall use an Ethernet 10/100Base-TX network interface with RJ45 connector.	
32	The camera and the associated equipment shall support communication protocols IPv4, IPv6, TCP, UDP, HTTP, HTTPS, DHCP, IGMP, ICMP, ARP, SNMP, Telnet, FTP, NTP, RTSP, and RTP as a minimum.	
33	The camera shall incorporate a built-in web server, built-in FTP server, and a built-in FTP client.	
34	The cameras shall have, at a minimum, the following configurable features: • Image resolution • Frame rate • Image quality adjustments (brightness and contrast) • Source and destination IP address settings • UDP port number • Bandwidth limits • Unicast and multicast settings, and • Support for two (2) simultaneous unicast streams	
35	The cameras shall support at the minimum three individually configured video streams. The cameras shall be capable of three or more simultaneous streams with one of the streams being in H.264 format.	

36	All cameras shall have an operating temperature range of 0°C to +55°C at humidity: 5% -95% RH.	
37	The environmental housing shall be of suitable size and provide a temperature-controlled atmosphere for the camera, lens and receiver- driver.	
38	The housing shall allow for easy disconnect of all external cables.	
39	The housing, mounting arm and the dome camera installed assembly shall be suited to withstand wind gusts of 150 km/h.	
40	The housing for CCTV shall meet the IP66 for protection	
41	The cameras shall have a Mean Time Between Failure (MTBF) of at least 100,000 hours	
42	Cameras along with related software needs to be integrated with the existing surveillance maintained by BSCL at Datacentre	

SI.No.	CCTV -PTZ Joystick (Functional Requirements)	Compliance (Yes/No.)
1	Input Voltage of the PTZ Keyboard should be between 100-240 VAC (50 or 60 HZ) and Output should be 12VDC	
2	PTZ Keyboard with Joystick should be configured in VMS	
3	Selection of PTZ Camera for the required operation through PTZ keyboard with Joystick.	
4	Users shall be able to do pan, tilt and zoom a PTZ camera displayed in a video pane or monitor using a PTZ Keyboard with Joystick.	
5	Users shall be able to adjust the focus of a PTZ camera using the PTZ keyboard:	
	Ø Focus Near	
	Ø Focus Far	
8	Users shall be able to adjust the iris of a PTZ camera using the PTZ keyboard:	
	Ø Open iris	
	Ø Close iris.	

Data Hosting

SI.No.	Data Centre (DC) and Disaster Recovery Centre (DRC) Infrastructure	Compliance (Yes/No.)
1.	The proposed servers and hardware will be housed in STPI Gothapatna. Rack Space will be provided by BSCL on chargeable basis @ ___ INR / year/ rack	
2.	The Video DRC is to be established in discussion and consultation with BSCL	

(Signature, name and designation of the authorized signatory)
For and on behalf of ………………..

APPENDIX VII - SERVICE LEVEL AGREEMENT

Sl.No	Component	Security Level	Requirement	Falls by/ Increase by	Penalty (INR)	Calculation (Currency in INR)
1	Fixed CCTV/ CCTV PTZ	Moderate	99%	0.50%	10000	For every decrease of 0.50% in availability of each device & its associated component in a quarter, a penalty of 10000 shall be imposed
2	PTZ Keyboard with Joystick	Low	99%	0.50%	5000	For every decrease of 0.50% in availability of each device & its associated component in a quarter, a penalty of 5000 shall be imposed.
3	NVR	High	99.5%	0.50%	500000	For every decrease of 0.50% in availability of each device & its associated component in a quarter, a penalty of 500000 shall be imposed

(Signature, name and designation of the authorized signatory)
For and on behalf of ………………..

APPENDIX - VIII: FINANCIAL BID FORM

(On letter head of the Bidder)

[Location, Date]

To

General Manager (Administration)
Bhubaneswar Smart City Limited (BSCL)
Block-I, 5th Floor,
BMC-Bhawani Mall, Saheed Nagar,
Bhubaneswar – 751007, Odisha

Sub: <u>RFP FOR SUPPLY INSTALLATION, TESTING, COMMISSIONING AND O&M OF CCTV AND VIDEO MANAGEMENT SYSTEM</u>

Dear Sir

I/ We, _____ (Bidder's name) enclose herewith the Financial Bid for selection of my / our company.

<u>BOQ for Capital Expenditure (CAPEX)</u>

Sr.No.	Track	Item Description	UOM	Quantity	Unit Price for supply	Unit Price for Installation	Total
A	**CCTV**						
1	CCTV	CCTV 4 MP or more Fixed Camera	Nos	280			
2	CCTV	CCTV PTZ Camera	Nos	70			
3	CCTV	CCTV PTZ Camera Joystick	Nos	2			

Sr.No.	Track	Item Description	UOM	Quantity	Unit Price for supply	Unit Price for Installation	Total
4	CCTV	CCTV Poles with all accessories	Nos	As required			
5	CCTV	Operator Workstation	Nos	4			
6	CCTV	Video Management System with video analytics	Nos	1			
B	**Data centre**						
7	Data centre	Network Video recorder for DC and Video DRC	Set	1			
8	Data centre	Primary Storage	Set	1			
9	Data centre	Secondary Storage	Set	1			
10	Data centre	Antivirus	Set	1			
11	Data centre	Operating System (Windows Based)	Set	1			
C	**Communication Network**						
12	Communication Network	HDPE Duct					
(I)		Set of 2x63mm	Mtrs.	As per Bidder's Design			
(II)		1x25mm	Mtrs.	As per Bidder's Design			
15	Communication Network	Outer sleeves of suitable diameter	Mtrs.	As per Bidder's Design			

Sr.No.	Track	Item Description	UOM	Quantity	Unit Price for supply	Unit Price for Installation	Total
16	Communication Network	Trenching	Mtrs.	As per Bidder's Design			
17	Communication Network	Handhole with Cover (As per Bidder's Solution)	Nos.	As per Bidder's Design			
18	Communication Network	Manhole (As per Bidder's Solution)	Nos.	As per Bidder's Design			
19	Communication Network	Fibre Optic Cable (FOC)					
(I)		144 Count FOC	Mtrs.	As per Bidder's Design			
(II)		12 Count FOC	Mtrs.	As per Bidder's Design			
22	Communication Network	UTP Cat 6 Armoured Cable (As per Bidder's Solution)	Set	1			
23	Communication Network	UTP Patch Cord (As per Bidder's Solution)	Set	1			
24	Communication Network	Fibre Optic Splice Closure (FOSC) (As per Bidder's Solution)	Nos.	As per Bidder's Design			
25	Communication Network	Optical Connectors (As per Bidder's Solution)	Set	1			
26	Communication Network	Fibre Optic Patch Cords (As per Bidder's Solution)	Set	1			
28	Communication Network	Fibre Termination Panel (FTP)					
(I)		144 Count FTP	Nos.	As per Bidder's Design			

Sr.No.	Track	Item Description	UOM	Quantity	Unit Price for supply	Unit Price for Installation	Total
(II)		12 Count FTP (As per Bidder's Solution)	Nos.	As per Bidder's Design			
31	Communication Network	Intelligent Patch Panel Management Hardware with Software (As per Bidder's Solution)	Set	1			
32	Communication Network	Communication Cabinets with Racks	Nos.	As per Bidder's Design			
33	Communication Network	Junction Boxes (As per Bidder's Solution)	Nos.	As per Bidder's Design			
34	Communication Network	Ethernet Switch and Router					
(I)		Layer 2 - Industrial Grade Field Switch (As per Bidder's Solution)	Nos.	As per Bidder's Design			
(II)		Layer 3 – Industrial Grade Distribution Switch (As per Bidder's Solution)	Nos.	As per Bidder's Design			
(iii)		Layer 3 -: Backbone Ethernet Switch/Router (As per Bidder's Solution)	Nos.	As per Bidder's Design			
(iv)		Layer 3 - Type II: Core Router and Internet Router	Nos.	As per Bidder's Design			
(v)		Layer 3 - Type III: Server/Workstation Connectivity Ethernet Switch	Nos.	As per Bidder's Design			
40	Communication Network	Media Converter (As per Bidder's Solution)	Set	1			
41	Communication Network	Wireless Gateway	Nos.	As per Bidder's Design			

Sr.No.	Track	Item Description	UOM	Quantity	Unit Price for supply	Unit Price for Installation	Total
42	Communication Network	Rodent Repellent System	Set	1			
D	**Integrations**						
43	Integration	Integration with existing Smart city platform etc.	Set	1			
44	Integration	Integration with existing Fibre Asset Management System (FAMS)	Set	1			
45	Integration	Integration with existing Network Management System (NMS)	Set	1			
46	Integration	Integration with existing Enterprise Management System (EMS) including Helpdesk	Set	1			
E	**Any other Hardware and Software required**						
48	CCTV	Any other Hardware or Software required to meet the RFP requirements of CCTV (Bidder to list individual items and provide costing).	Set	1			
47	Communication Network	Any other Hardware or Software required to meet the RFP requirements of Fibre Optic Infrastructure including Network Electronics (Bidder to list individual items and provide costing).	Set	1			
49	Data center	Any other Hardware or Software required to meet the RFP requirements of Data center (Bidder to list individual items and provide costing).	Set	1			

Sr.No.	Track	Item Description	UOM	Quantity	Unit Price for supply	Unit Price for Installation	Total
49	Integration	Any other Hardware or Software required to meet the RFP requirements of Integration (Bidder to list individual items and provide costing).	Set	1			
F	**Training and Capacity Building**						
50	Training and Capacity Building (On hands training)	4 batches - 2 times each, with all training documents	Set	1			

BOQ for Operation and Maintenance (OPEX)

Sr.No.	Track	Item Description	UOM	Quantity	Cost Year 1	Cost Year 2	Cost Year 3	Cost Year 4	Cost Year 5	Cost Year 6
A	**CCTV**									
1	CCTV	CCTV 4 MP and more Fixed Camera	Nos	280						
2	CCTV	CCTV PTZ Camera	Nos	70						
3	CCTV	CCTV PTZ Camera Joystick	Nos	2						
4	CCTV	CCTV Poles with all accessories	Nos	As required						
5	CCTV	Operator Workstation	Nos	4						
6	CCTV	Video Management System with video analytics	Nos	1						
B	**Data center**									

Sr.No.	Track	Item Description	UOM	Quantity	Cost Year 1	Cost Year 2	Cost Year 3	Cost Year 4	Cost Year 5	Cost Year 6
7	Data center	Network Video recorder for DC and Video DRC	Set	1						
8	Data center	Primary Storage	Set	1						
9	Data center	Secondary Storage	Set	1						
10	Data center	Antivirus	Set	1						
11	Data center	Operating System (Windows Based)	Set	1						
C	Communication Network									
12	Communication Network	HDPE Duct								
(I)		Set of 2x63mm	Mtrs.	As per Bidder's Design						
(II)		1x25mm	Mtrs.	As per Bidder's Design						
15	Communication Network	Outersleeves of suitable diameter	Mtrs.	As per Bidder's Design						
16	Communication Network	Trenching	Mtrs.	As per Bidder's Design						
17	Communication Network	Handhole with Cover (As per Bidder's Solution)	Nos.	As per Bidder's Design						
18	Communication Network	Manhole (As per Bidder's Solution)	Nos.	As per Bidder's Design						

Sr.No.	Track	Item Description	UOM	Quantity	Cost Year 1	Cost Year 2	Cost Year 3	Cost Year 4	Cost Year 5	Cost Year 6
19	Communication Network	Fibre Optic Cable (FOC)								
(I)		144 Count FOC	Mtrs.	As per Bidder's Design						
(II)		12 Count FOC	Mtrs.	As per Bidder's Design						
22	Communication Network	UTP Cat 6 Armoured Cable (As per Bidder's Solution)	Set	1						
23	Communication Network	UTP Patch Cord (As per Bidder's Solution)	Set	1						
24	Communication Network	Fibre Optic Splice Closure (FOSC) (As per Bidder's Solution)	Nos.	As per Bidder's Design						
25	Communication Network	Optical Connectors (As per Bidder's Solution)	Set	1						
26	Communication Network	Fibre Optic Patch Cords (As per Bidder's Solution)	Set	1						
28	Communication Network	Fibre Termination Panel (FTP)								
(I)		144 Count FTP	Nos.	As per Bidder's Design						
(II)		12 Count FTP (As per Bidder's Solution)	Nos.	As per Bidder's Design						
31	Communication Network	Intelligent Patch Panel Management Hardware with Software (As per Bidder's Solution)	Set	1						

Sr.No.	Track	Item Description	UOM	Quantity	Cost Year 1	Cost Year 2	Cost Year 3	Cost Year 4	Cost Year 5	Cost Year 6
32	Communication Network	Communication Cabinets with Racks	Nos.	As per Bidder's Design						
33	Communication Network	Junction Boxes (As per Bidder's Solution)	Nos.	As per Bidder's Design						
34	Communication Network	Ethernet Switch and Router								
(I)		Layer 2 - Industrial Grade Field Switch (As per Bidder's Solution)	Nos.	As per Bidder's Design						
(II)		Layer 3 – Industrial Grade Distribution Switch (As per Bidder's Solution)	Nos.	As per Bidder's Design						
(iii)		Layer 3 -: Backbone Ethernet Switch/Router (As per Bidder's Solution)	Nos.	As per Bidder's Design						
(iv)		Layer 3 - Type II: Core Router and Internet Router	Nos.	As per Bidder's Design						
(v)		Layer 3 - Type III: Server/Workstation Connectivity Ethernet Switch	Nos.	As per Bidder's Design						
40	Communication Network	Media Converter (As per Bidder's Solution)	Set	1						
41	Communication Network	Wireless Gateway	Nos.	As per Bidder's Design						
42	Communication Network	Rodent Repellent System	Set	1						
D	**Integrations**									

Sr.No.	Track	Item Description	UOM	Quantity	Cost Year 1	Cost Year 2	Cost Year 3	Cost Year 4	Cost Year 5	Cost Year 6
43	Integration	Integration with existing Smart city platform etc.	Set	1						
44	Integration	Integration with existing Fibre Asset Management System (FAMS)	Set	1						
45	Integration	Integration with existing Network Management System (NMS)	Set	1						
46	Integration	Integration with existing Enterprise Management System (EMS) including Helpdesk	Set	1						
E	**Any other Hardware and Software required**									
48	CCTV	Any other Hardware or Software required to meet the RFP requirements of CCTV (Bidder to list individual items and provide costing).	Set	1						
47	Communication Network	Any other Hardware or Software required to meet the RFP requirements of Fibre Optic Infrastructure including Network Electronics (Bidder to list individual items and provide costing).	Set	1						
49	Data center	Any other Hardware or Software required to meet the RFP requirements of Data center (Bidder to list	Set	1						

Sr.No.	Track	Item Description	UOM	Quantity	Cost Year 1	Cost Year 2	Cost Year 3	Cost Year 4	Cost Year 5	Cost Year 6
		individual items and provide costing).								
49	Integration	Any other Hardware or Software required to meet the RFP requirements of Integration (Bidder to list individual items and provide costing).	Set	1						

TOTAL CONTRACT VALUE (CAPEX + OPEX) = _____**(Rupees_____)**

(Signature, name and designation of the authorized signatory)
For and on behalf of ………………..

Note:

- The contract value quote above shall be inclusive of all charges except GST which will be paid extra above the quoted contract value