



**BROADCAST ENGINEERING CONSULTANTS INDIA
LIMITED**

RFP *for*
**Selection of Master System
Integrator (MSI) for Supply,
Implementation, Operation &
Maintenance of Surveillance
System under
Safe Warehouse Project of
Haryana**

Broadcast Engineering Consultants India Limited

C-56, A/17, Sector-62, Noida-201301, U.P.

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DISCLAIMER

The information contained in this Request for Proposal document ("RFP") or subsequently provided to BIDDERS, whether verbally or in documentary or any other form by or on behalf of the BECIL or any of its employees or advisers, is provided to BIDDERS on the terms and conditions set out in this RFP and such other terms and conditions subject to which such information is provided.

This RFP is not an agreement and is neither an offer nor invitation by BECIL 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 pursuant to this RFP. This RFP includes statements, which reflect various assumptions and assessments arrived at by BECIL in relation to the services. Such assumptions, assessments and statements do not support to contain all the information that each Bidder may require. This RFP may not be appropriate for all persons, and it is not possible for BECIL, its employees or advisers to consider the objectives, technical expertise 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 and information contained in this RFP and obtain independent advice from appropriate sources.

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BECIL 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.

The issue of this RFP does not imply that the BECIL is bound to select a Bidder or to appoint the Selected Bidder, as the case may be, for the desired services and BECIL reserves the right to reject all or any of the Bids without assigning any reasons whatsoever.

Time and Quality is of essence. BECIL reserves the right to go ahead with the bid process in case of single bidder. It is also not bound to accept the lowest financial offer and may negotiate with the most technically qualified bidder.

The Bidder shall bear all its costs associated with or relating to the preparation and submission of its Proposal including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by BECIL or any other costs incurred in connection with or relating to its Proposal. All such costs and expenses will be borne by the Bidder and BECIL shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an Bidder in preparation or in submission of the Proposal, regardless of the conduct or outcome of the selection process.

No contractual obligation whatsoever shall arise from the tender process unless and until a formal contract is signed and executed by duly authorized officer of the (BECIL) with the vendors/bidders.

**Request for Proposal (RFP) Document
for**

Selection of Master System Integrator (MSI) for Supply, Implementation, Operation & Maintenance of Surveillance System under Safe Warehouse Project of Haryana

RFP No.	BECIL/GM(MU)/CCTV/2021-22/01
Publish Date of RFP	04 August, 2021
Mode of Bid Submission	Online through website https://becil.euniwizarde.com/
Procuring Entity	General Manager (IT & Mfg.)
Contact detail for Queries	0120-4177850-210 yogesh.kumar@becil.com
Pre-bid Date and Time	09 August, 2021 at 02:00 p.m.
Last Date & Time of Submission of Bid	16 August, 2021 at 03:00 p.m.
Date & Time of Opening of Technical Bid	16 August, 2021 at 03:30 p.m.

Bidding Document Fee: Rs.10,000/- (Rupees Ten Thousand only)

Name of the Bidding Company/ Firm:			
Contact Person (Authorized Bid Signatory):			
Correspondence Address:			
Mobile No.:		Telephone & Fax Nos.:	
Website & E-Mail:			

Broadcast Engineering Consultants India Limited

C-56, A/17, Sector-62, Noida-201301, U.P.

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1. NOTICE INVITING BID

RFP No.	BECIL/GM(MU)/CCTV/2021-22/HR/01
Name & Address of the Procuring Entity	<ul style="list-style-type: none"> Name: Broadcast Engineering Consultants India Limited (BECIL) Address: C-56, A/17, Sector-62, Noida-201301, U.P.
Subject Matter of Procurement	Selection of Master System Integrator (MSI) for Supply, Implementation, Operation & Maintenance of Surveillance System under Safe Warehouse Project of Haryana
Bid Procedure	Single-stage: Two parts - Open competitive Bid procedure
Bid Evaluation Criteria (Selection Method)	Lowest evaluated Technically responsive bidder will be awarded the Contract
Website for downloading NIB Document, Corrigendum's, Addendums etc.	<ul style="list-style-type: none"> Website: www.becil.com and https://becil.euniwizarde.com/
Tender Fee	<ul style="list-style-type: none"> Tender Document Fee: INR 10,000 (Rupees Ten Thousand only) through Demand Draft in favour of "Broadcast Engineering Consultants India Limited" payable at "Noida". Bidder has to submit Tender Fee to the BECIL in Hard copy, before 13 August, 2021 up to 3:00 p.m. Scanned copy of Tender Fee also needs to be submitted along with Technical bid. Receipt of successful submission of EMD has to be submitted along with the Technical bid. If not complied, bid will not be considered for opening and rejected out-rightly.
Earnest Money Deposit (EMD)	<ul style="list-style-type: none"> EMD Fee: INR 10,00,000/- (Rupees Ten Lacs only) through Demand Draft in favour of "Broadcast Engineering Consultants India Limited" payable at "Noida". Bidders shall physically submit EMD in a sealed envelope tiled "RFP for Selection of Master System Integrator (MSI) for Supply, Implementation, Operation & Maintenance of Surveillance System under Safe Warehouse Project of Haryana" to the BECIL Nodal officer before 13 August, 2021 up to 3:00 p.m. Scanned copy of EMD also needs to be submitted along with Technical bid. Bidder has to submit EMD to the BECIL in Hard copy, before 13 August, 2021 up to 3:00 p.m. Receipt of successful submission of EMD has to be submitted along with the Technical bid. If not complied, bid will not be considered for opening and rejected out-rightly.
Period of download of NIB Document (Start/ End Date)	<ul style="list-style-type: none"> Start Date: 04 August, 2021 End Date: 13 August, 2021 at 03:00 p.m.

Pre-bid Date and Time	09 August, 2021 at 02:00 p.m.
Mode of Bid Submission (Technical cum Financial bid)	Online through website https://becil.euniwizarde.com/ Help Desk No. for any technical issue regarding Bid submission 1) Mr. Navneet Mob: 9560364871 2) Mr. Anshuman Mob: 9355030616
Start/ End Date for the submission of Bids	<ul style="list-style-type: none"> Start Date: 04 August, 2021 End Date: 16 August, 2021 at 03:00 p.m.
Submission of Demand Draft for Tender Fee and EMD	<ul style="list-style-type: none"> From 03.00 p.m. onwards on 04 August, 2021 and up to 03:00 p.m. on 13 August, 2021
Date/ Time/ Place of Technical Bid Opening	<ul style="list-style-type: none"> Date: 16 August, 2021 at 03:30 p.m. Place: C-56, A/17, Sector-62, Noida-201301, U.P.
Date/ Time/ Place of Financial Bid Opening	Will be intimated later to the Technically qualified bidders
Bid Validity	180 days from the bid submission deadline. The EMD must remain valid 30 days beyond the original or extended validity period of the bid. The bid validity shall be 210 days (180+30 days).

2. PURPOSE OF DOCUMENT

This document introduces the bidders with essential parameters that will help in understanding the requirement of BECIL/ its Customer so the intended bidder can participate in the competitive bid process and thereby formulate a time bound implementation approach.

This RFP will clearly define the foundation of the envisioned project with clear set of instructions to bid as per standard norms, project terms and conditions, evaluation and selection criterion, timelines, associated payment terms, roles and responsibilities of stakeholders, etc.

The aim of this system is to capture all activities at the places under surveillance, generate alarms, warnings in case of any potential threat to Warehouse safety followed by real-time technology aided assistance.

The broad aims to achieve through this envisaged project are:

- Enhanced surveillance and demonstrative presence / visibility in Warehouse campus by enabling Video Surveillance system.
- To ensure uninterrupted, effective, clear and proper capturing of video images of identified locations for the designated Warehouse premises, so as to have continuous display/storage of such image/data and its retrieval as and when required for effective security surveillance.

The requirement of this envisaged projects are detailed out with the Scope of Work so as to enable the prospective bidders to understand and relate the project fundamentals with the project requirements in a better meaningful way.

3. PROJECT OVERVIEW

BECIL / its Customer have envisaged establishing Integrated Command control center (ICCC) site for management of safety, security of warehouse, vehicular and traffic movement on weighbridge and control undertaking well-informed data driven decisions through fostering a robust ICT infrastructure that supports digital applications and ensures seamless steady Warehouse operations, Surveillance, real time tracking of warehouse and vital warehouse metrics across the state.

The vision of CCTV Surveillance System project is to implement holistic and integrated video surveillance system, technology based Video monitoring system for warehouse management which would be further leveraged and utilized for management of safety and security, considering the importance of each warehouse established by BECIL / its Customer for scientific storage of Food Grains.

BECIL / its Customer envisages deployment of following systems/components under CCTV Surveillance System to achieve the above-mentioned objectives:

- IP CCTV Surveillance system
- Video management software
- Network connectivity
- Viewing Center at Local, District and HQ level

4. GENERAL

- While every effort has been made to provide comprehensive and accurate background information, requirements and envisaged solution(s) specifications, Bidders must conduct their own due diligence and form their own conclusions about the solution(s) needed to meet BECIL requirements. Bidders and recipients of this RFP may wish to consult their own legal advisers in relation to this RFP.
- All information supplied by Bidders as part of their Bids in response to this RFP, may be treated as contractually binding on the Bidders, on successful award of the assignment by BECIL on the basis of this RFP.
- No commitment of any kind, contractual or otherwise shall exist unless and until a formal written Agreement has been executed by or on behalf of BECIL. Any notification of preferred bidder status by BECIL shall not give rise to any enforceable rights to the Bidder. BECIL may cancel this public procurement at any time prior to a formal written Agreement being executed by or on behalf of BECIL.
- Telex, cable or facsimile Bids will be rejected.

5. PRE-QUALIFICATION / ELIGIBILITY CRITERIA

A. Bidder Eligibility Criteria

- Form of organization, whether Partnership or Proprietary or LLP or Private limited Company must be clearly mentioned in the Technical bid. If partnership firm, the names & addresses of the partners and if Limited Co., the names and addresses of the Directors and Registration Number may be expressly stated.
- The Bidder's Average annual turnover during last 3 FYs (2017-18, 2018-19, 2019-20) should be INR 10 Crores (supported by audited Balance Sheet and P&L statement duly certified by the Chartered Accountant)
- Bidder must have a valid certification of ISO 20000:2011, ISO 9001:2015 and ISO 27001:2013.
- Bidder should have GST Registration certificate and PAN Card.
- The Bidder should have valid ESI and EPF Number (copy of latest Challan should be submitted).
- Minimum 5 years of presence of bidder in India in the field of System Integration/IT/ICT/Networking project/Security ancillary service is must.
- Bidder shall be profitable for a period of last 3 FY's and should have office in Haryana.
- Bidder should have executed one work order of min. 5 Crores with any department of Government importance in the field of Security system integration / IT security Networking solutions / Security Surveillance system in the last 5 years. Copies of Work Order need to be enclosed.
- The bidder should not have been debarred/ blacklisted by any Organization/ Board/ Council/ University/ Commission and any other Government/ Government undertaking organization in the last five years (A notarized undertaking to the effect is mandatory to be submitted).
- Permission, if any, required, for the installation of the equipment's at different places from the local authority/competent authority be arranged by the Bidder itself.
- Bidder should have min. 100 manpower on its payroll of the bidding organization. Declaration by HR Head or Company secretary should be submitted.

- (xii) All the above qualifying documents to be signed and stamped by authorized signatory and need to be accompanied by Power of attorney issued by Board.

B. OEM Eligibility Criteria

- (i) OEM Company for Camera & NVR should have its own company registered in India (under Incorporation of Companies Act, 1956/ 2013) since last 10 years. Any representation through a Dealer/ Distributor/ Joint Venture/ Subsidiary/ consortium shall not be treated as OEM. This has to be supported by necessary statutory documents.
- (ii) All the CCTV components should be from reputed OEM and the OEM should be listed among top 10 vendors in India as per IHS report 2019.
- (iii) The OEM of the IP Camera, Storage, NVR/ VMS Software and Network Switches should not be blacklisted or banned by any country or government department in any country. The OEM should not have any cheating or fraud case filed against their company for their respective product line.
- (iv) The CCTV OEM should have its service/ support centre in Haryana. Required sales, service tax number/ certificate to be provided along with the bid.
- (v) The OEM should have CMMI Level 5, ISO 9001:2008, ISO 45001:2018 and ISO 14001:2004 certificate for manufacturing of all types of cameras & NVR and all the CCTV components (Camera, NVR) should be from same OEM for seamless integration and ease of operation. The Bidder/s shall attach the copy of the OEM's ISO Certificate along with the bid.
- (vi) All CCTV cameras offered in the project should be UL, BIS, CE, RoHS, FCC certified.
- (vii) The OEM of the CCTV camera must have more than 500 employees on its payroll in India. Any OEM which is a part of a larger group company but meeting the 500 employee criterion in India is also eligible. This is to justify that CCTV OEM has made investment in India and is serious about its business in India which will ensure long term after sales support and spare support from the OEM. Respective document/ certificate to be provided by the Company Head HR along with the bid.
- (viii) The CCTV OEM must have supplied minimum 5000 no. of IP Cameras in one single P.O to any State Govt. / Central Govt. / Public sector undertaking in India, as on bid submission date. P.O Copy to be submitted along with supply proof.
- (ix) The CCTV OEM must have supplied minimum 1000 no. of CCTV Cameras in one single P.O of a Warehouse project to any State Govt. / Central Govt. / Public sector undertaking in India, as on bid submission date. P.O Copy to be submitted along with supply proof.
- (x) Prevailing Geo-Political situation to be considered in selecting the OEMs for the solution. Bidder to note that it's mandatory to meet the requirements for minimum technical specifications of hardware and software. All the hardware and software should be from the reputed OEMs. Bidder is responsible for complete integration of all the Hardware and Software proposed in the bid.
- (xi) All the above qualifying documents to be signed and stamped by authorized signatory and need to be accompanied by Power of attorney issued by Board.

C. Additional documents to be submitted

In the technical bid section, the bidder is also required to upload following documents:

- (i) Brochure and OEM Compliance of the offered product (CCTV, NVR, VMS, UPS, Workstation, Server, Firewall) on OEM Letterhead.
- (ii) Compliance of the SoW, SLA and Payment terms etc as uploaded as part of this Bid on bidder's letterhead.
- (iii) Undertaking as per guidelines published by Ministry of Finance, Dept. of Expenditure, Public Procurement division dated 23.07.2020 in the given format by Bidder as well as OEM.

D. In addition to the provisions regarding the qualifications of the bidders as set out above

- (i) The procuring entity shall disqualify a bidder as per the provisions under “Clause: Exclusion of Bids/ Disqualification”; and
- (ii) The procuring entity may require a bidder, who was qualified, to demonstrate its qualifications again in accordance with the same criteria used to qualify such bidder. The procuring entity shall disqualify any bidder that fails to demonstrate its qualifications again, if requested to do so. The procuring entity shall promptly notify each bidder requested to demonstrate its qualifications again as to whether or not the bidder has done so to the satisfaction of the procuring entity.

6. TECHNICAL EVALUATION CRITERIA

The Bidder qualifying the PQC criteria (*refer Point no. 5 of this RFP*) would be evaluated as per below table:

S. No.	Parameters	Maximum Score
1	No. of years of experience in the field of Security system integration / IT security Networking solutions / Security Surveillance system <ul style="list-style-type: none">➤ 5 Marks (5-10 yrs.)➤ 10 Marks (> 10 yrs.)	10
2	No. of project works relating to Security system integration / IT security Networking solutions / Security Surveillance system in last 5 years (At least 3 projects) <ul style="list-style-type: none">➤ 10 marks (= 3 projects)➤ 15 marks (4 – 5 projects)➤ 20 marks (Projects >5)	20
3	Average annual turnover (AAT) for the financial years (2017-18, 2018-19 & 2019-20) <ul style="list-style-type: none">➤ 3 Marks (AAT b/w 10 - 20 Cr.)➤ 5 Marks (AAT b/w 20 - 30 Cr.)➤ 10 Marks (AAT > 30 Cr.)	10
4	Security system integration / IT security Networking solutions / Security Surveillance system worth 05 Cr. under taken for Government / PSUs / Autonomous bodies in the last 3 years <ul style="list-style-type: none">➤ 5 Marks (project worth 5 - 10 Cr.)➤ 10 Marks (project worth >10 Cr.)	10
5	Bidder must have more than 100 employees on its payroll of the company <ul style="list-style-type: none">➤ 5 Marks (Manpower of 100-150)➤ 10 marks (Manpower > 150)	10
6	Bidder should possess all three of the below Certifications which are valid at the time of bid submission: (10 marks) <ul style="list-style-type: none">➤ ISO 9001:2008 or Above– for Quality Process➤ ISO 20000:2011 for IT Service Management or equivalent certification	10

	➤ ISO 27001:2013 for Information Security Management System	
7	Technical Presentation: <ul style="list-style-type: none"> ➤ Understanding of the Project requirement ➤ Proposed team composition ➤ Solution Design ➤ Project management methodology ➤ Similar experience in past ➤ Implementation strategy ➤ Project Timelines ➤ Strategy for O&M phase 	30
	TOTAL	100

Note:

* Technical Score less than 60% will not be considered for Financial Bid.

** Bidders are required to fill up Self-evaluation Technical Score Sheet.

BECIL will assign points to bidders based on the technical evaluation criterion mentioned & approved by committee. The commercial bids for the technically qualified bidders will then be opened and reviewed to determine whether the commercial bids are substantially responsive. The passing score in Technical stage is 60 out of Total 100 (Hundred) Marks in the above mentioned criteria.

Bidder is required to submit necessary credentials/ documentary proof of Purchase Order/ Agreement/ Completion Certificates, detailing Scope of Work, Timelines, project experience certificate etc. or relevant documents in support each of above parameters.

The Technical evaluation will consist of evaluation of the bidder responses to the technical bids submitted by the bidder. The bidders proposed implementation methodology, project management methodology will also be considered for technical evaluation.

7. COMMERCIAL EVALUATION CRITERIA

The Bid Evaluation Committee will evaluate the commercial bids received from the bidders, as per below specified formula. The Price Score of the bidder will be calculated using the following formula:

$$\text{Price Score} = \frac{L.P.}{O.P.} \times 100$$

Where

L.P. is the Lowest Price offer of the Technically Qualified Bidders

O.P. is the Offer Price of the bidder being evaluated

8. OVERALL EVALUATION CRITERIA

The Bids received will be evaluated using Quality and Cost Based Selection (QCBS), giving 70 percent weightage to the Technical Score and 30 percent weightage to the Price Score.

Total Score = (Technical Score x 0.70) + (Price Score x 0.30)

Bidder with Highest Total Score will be awarded the work.

9. SCOPE OF WORK AND ADDITIONAL TERMS & CONDITIONS

The Bidder under the scope of work in this RFP is envisaged to design the solution including but not limited to Supply, Installation and Commissioning of Equipment's/hardware, software required for the successful Implementation and operations of Video Surveillance System at various Godown/warehouse spread across the state (herein after referred to as the "SITE"), on behalf of the Broadcast Engineering Consultants India Limited (BECIL) (herein after referred to as the "TENDERER") as per the functional and technical specifications, scope of work mentioned in this Bid document. The bidder shall be responsible for implementation of the work as defined in the bid document.

Software deployed under this project should be supplied with required OEM support for software update/patches/upgrades during the contract duration and licenses should be valid perpetual for life.

Bidder is also responsible for all the components like networking devices, LAN/CAT6/OFC/Electrical cabling including laying, tagging and ducting, earthing, power backup, network & architecture design, Racks and accessories, Monitoring Workstations/Desktop/Server, PC's availability of the system, Indoor/Outdoor IP cameras, VMS, video storage, NVR and any other devices/accessories like mounting bracket, pole etc. required for the successful running of envisage solution.

This is a 5 years Turnkey/EPC kind of project. Wherein, bidder is required to propose an appropriate solution to meet the outcome envisaged. However, Bidder is responsible for any other components inadvertently missed out but it is required as per the proposed solution of the bidder and is essential for overall solution to successfully run during entire project duration then bidder has to consider the same in his proposed solution. TENDERER will not be liable for payment of any additional cost outside of Financial bid.

The location of the various Godown/Warehouse will be shared later with successful Bidder only.

The complete scope of work would broadly be: design, engineering, supply, testing, installation, commissioning & maintenance of all project deliverables.

Quoted item is required to be offered with 2 (two) years OEM warranty. All equipment including material to be installed by the Bidder shall be new. The bidder should submit OEM's confirmation that the Products quoted are not end-of-life for the further period of 5 years from the date of authorization or Bidder has to

Supply Higher Model with Same Specification or Higher. All equipment shall conform to the codes, standards and regulations applicable and benefit from the usual manufacturer's guarantees.

A. IP Video Surveillance / CCTV System

1. The Scope of complete work would broadly include Design, Engineering, Supply, Testing, Installation, Commissioning, Site Acceptance Test, Training, Documentation, Warranty and Maintenance during the contract period.
2. Supply, Installations, Testing & Commissioning of High-performance IP based video surveillance system with cameras having built-in browser.
3. The Successful Bidder carrying out the SITC shall make the system entirely operational for its intended use, by addition of components specific to its make/model even if not specifically mentioned in the BOQ. Latest versions of software and applications shall be provided by the successful Bidder, as applicable at the time of execution and commissioning.
4. Supply, Installations, Testing & Commissioning, Operations & maintenance of High-performance IP based video surveillance system with remote access & remote management feature, complete recording and storage solution.
5. This shall include suitable brackets for mounting the cameras, weather-proof enclosures, fixtures, cables, connectors & any other devices/ peripherals required for the proper functioning of installed cameras.
6. The Successful Bidder has to furnish working drawings, solution design document and as-built drawings, which shall be an essential component of commissioning.
7. The storage should be designed, supply, implement and configured in such a way that it is capable to store & retrieve feeds of all the CCTV cameras in respective site/Location for last 30 days along with the earmarked/flagged feeds by the TENDERER without any additional cost to the TENDERER.
8. All the licenses procured, deployed by the bidder for this bid should be in the name of TENDERER or its Customer and valid perpetual for life.
9. Successful bidder is required to coordinate with telecom service provider (Connectivity provider) for better viewing of camera from DO level and monitoring from ICCC level.
10. Required alerts will be configured in the camera, as per event management server specification, such that the camera can communicate the required input to the event management server.

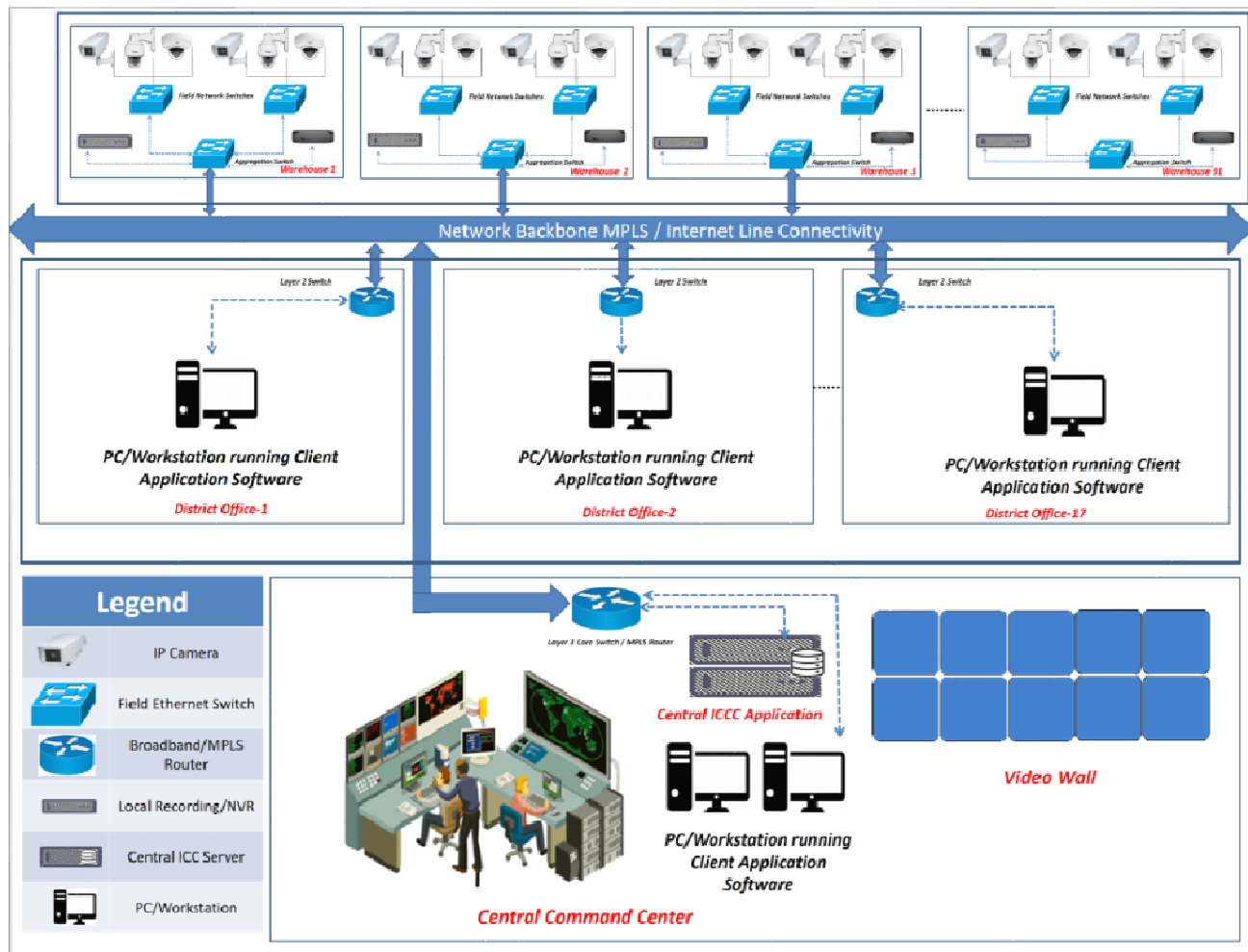
B. Network Video Recorder (NVR)/ Video Recording System

11. The proposed NVR/ Video recording System shall provide a complete end-to-end solution for CCTV surveillance application. The central control center shall allow an operator to view live / recorded video from any camera on the IP Network.
12. The recording system should support viewing of multiple cameras in one screen or viewing of one camera feed on one screen based on user selection. On display, it would be possible to show up to 32 cameras feeds on display at the same time, auto sequencing to bring all feeds and then to pan in and zoom on one or more cameras simultaneously on the video wall.
13. The above-mentioned requirements are only functional and the detailed module wise specification is given under technical Specification.
14. Network Video Recorder and Camera should be configured as per standard Specification up to 30 days recording. The recording should be configured in such a way, when the storage capacity gets to maximum limit., re-write happens on a first in first out basis without any manual intervention. Cameras should be configured to directly access the local NVR and the storage of NVR. This is to make sure recording happens 24x7.

15. Local Network video recorder will video retrieval on emergency. There will be a monitoring and management console at District office (DO) having only privileged user access which can have control of video monitoring, play back and, all the configuration of video recorder and cameras will be managed from Integrated Command Control Centre (ICCC). The video footage of local site can also be retrieved from District office (DO), if require.

C. Schematic Architecture

Under the distributed architecture for surveillance, the camera feeds shall be recorded locally at the Network Video Recorder (NVR) and will go to ICCC for central monitoring, viewing of analytics feeds, playback of recorded feeds etc. This feed would be available to multiple internal stakeholders for parallel viewing. The successful bidder must ensure that the Architecture and Solution deployed is in synch and integrated with DO Control Centre and HQ Command Control Center.

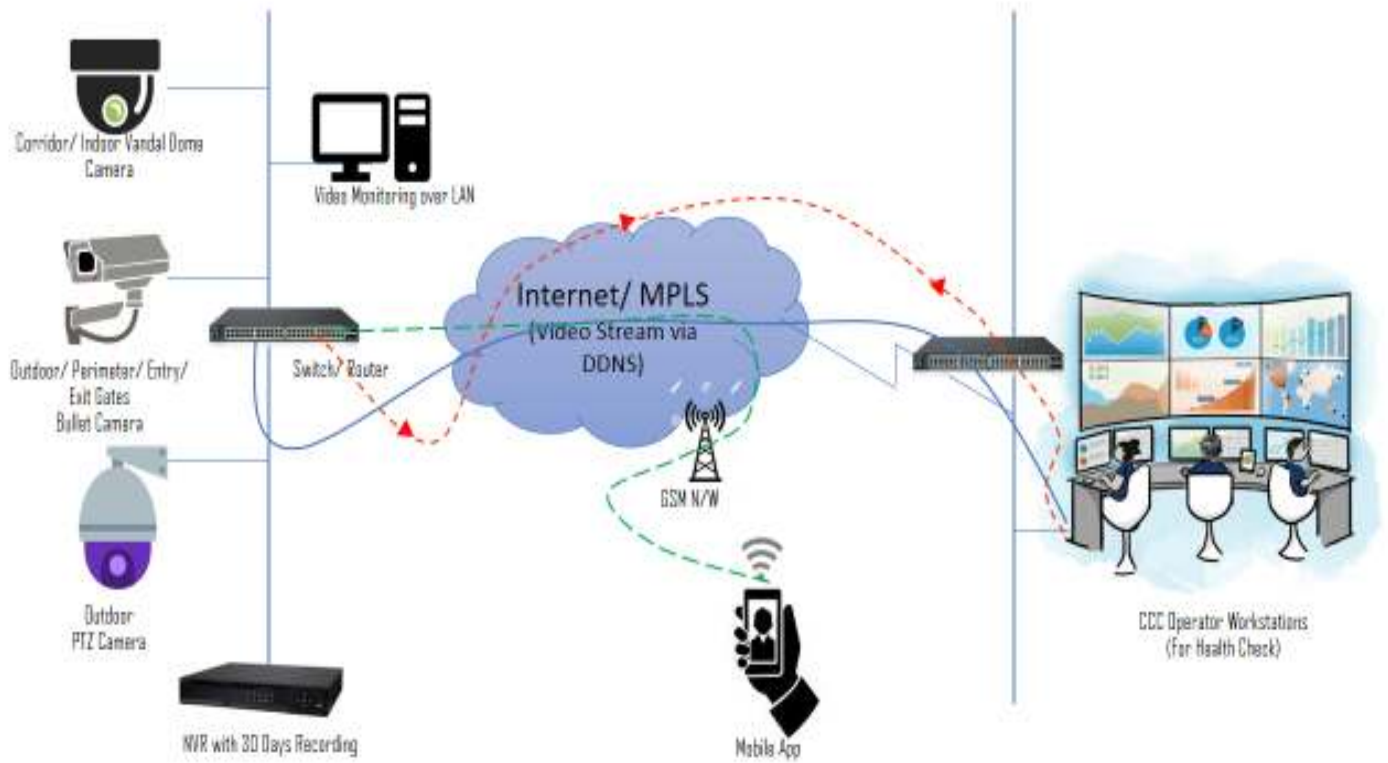


D. Technical Architecture

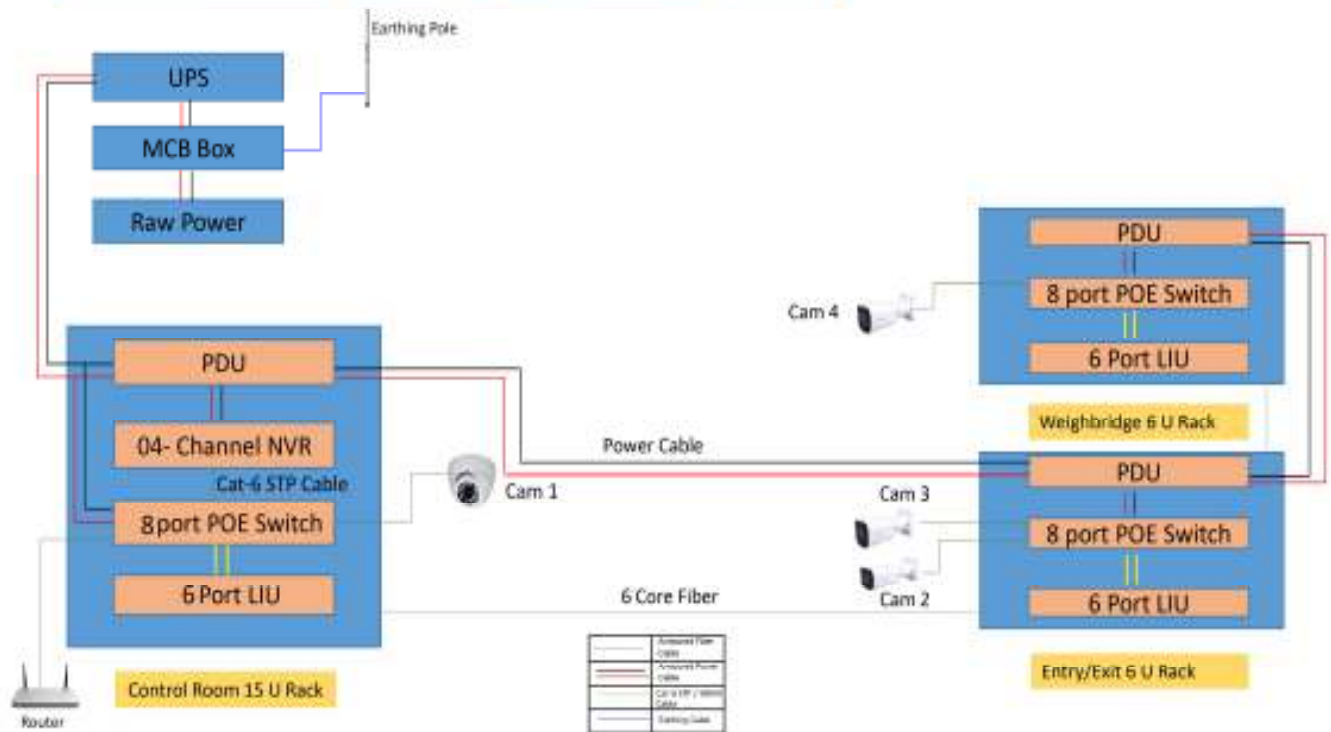
16. The Technical Architecture has been designed taking into consideration some of the following aspects as guiding principles:

- **Scalability** - Important technical components of the architecture must support scalability to provide continuous growth to meet the growing demand of the Customer. The system shall support vertical scalability so that depending on changing requirements from time to time, the system may be scaled upwards. There must not be any system-imposed restrictions on the upward scalability in no. of cameras. Main technological components requiring scalability are Storage, Bandwidth, Computing Performance (IT Infrastructure), Software/ Application performance and advancement in camera features. In quantitative terms, there may not be major change in number of Command Centers & Monitoring Stations. However, number of cameras may increase.
- **Modularity** - The system shall also support horizontal scalability so that depending on changing requirements from time to time, the system may be scaled horizontally.
- **Availability** - Considering the high sensitivity of the system, design shall be in such a way as to be resilient to technological sabotage.
- **Security** - The architecture must adopt an end-to-end security model that protects data and the infrastructure from malicious attacks, natural disasters etc. Implementation Agency will make provisions for protection of the software system from hackers and other threats. Using firewalls such attacks would be controlled and well supported (and implemented) with the security policy. The virus and worm attacks should be well defended with gateway level Antivirus system, along with workstation level Antivirus mechanism. Furthermore, all the system logs should be properly stored & archived for future analysis and forensics whenever desired.
- **Manageability** - Ease of configuration, ongoing health monitoring, and failure detection are vital to the goals of scalability, availability, and security and must be able to match the growth of the environment. Network should be auto/manual configurable for various future requirements for the ease of maintenance / debugging.
- **Open Standards** – System shall use open standards and protocols to the extent possible. The code does not build a dependency on any proprietary software, particularly, through the use of proprietary ‘stored procedures’ belonging to a specific database product. The standards should at least comply with the published eGovernance standards, frameworks, policies and guidelines available on <http://egovstandards.gov.in> (updated from time-to-time).
- **Application Architecture** - The applications designed and developed for this project must follow best practice and industry standards. In order to achieve the high level of stability and robustness of the application, the system development life cycle must be carried out using the industry standard best practices and adopting the security constraints for access and control rights. The standards should at least comply with the published eGovernance standards, frameworks, policies and guidelines available on <http://egovstandards.gov.in> (updated from time-to-time).

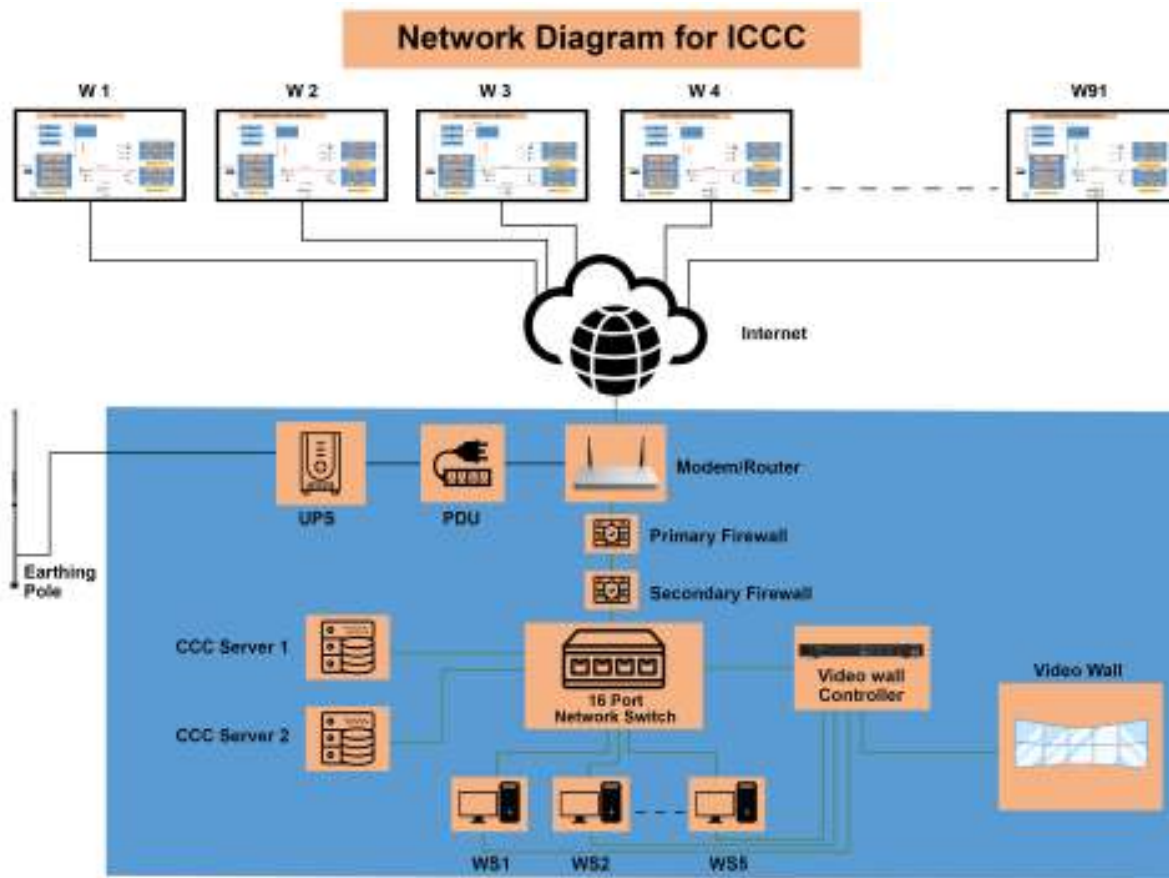
E. Warehouse Architecture



Network Diagram of Each Warehouse



F. ICCC Architecture



G. Camera installation in Godown/Warehouse

17. During the installation, the camera lens position has to be adjusted to get the desired view in the specific location.
18. The cameras should be configured with a suitable IP address as per the IP addressing scheme in the Godown/Warehouse.
19. The camera should be configured in such a way that images and video feeds can be identified distinctively/easily.
20. The cameras should be configured for automatic day / night display, so that without manual intervention, camera switches to night mode when the light condition is less.
21. Required alerts will be configured in the camera, as per event management server specification, such that the camera can communicate the required input to the event management server.
22. All hardware should be heavy durable, high quality grade products equipped for long life and high performance.
23. Data must be highly secured with high level encrypted protection both in LAN and WAN.
24. All the products will be backed up with high protection using Invertor UPS or Online UPS.
25. All the Connecting cables should be high-end quality outdoor type cable equipped for high durable application.

H. Control Center at Godown/Warehouse

26. This shall include the supply, installation, testing, commissioning and O&M of active and passive components like NVR with storage, network switches, along with cabinets, enclosures, fixtures, cables, connectors and any other

devices, peripherals required for the proper functioning of various components. Bidder is also responsible for necessary electrification of all the devices including all accessories in the control center. The Control center will be located in a separate room within the same campus or as decided by respective office of the TENDERER.

27. Actual power/electricity required will be provided by TENDERER/its Customer. However, extension till the last mile/actual utility will be in the scope of successful bidder. Further the recurring monthly Electricity charges under the project shall be paid by the TENDERER/its Customer.
28. The images, video feeds displayed on the monitoring displays, should display the camera ID for identification.
29. The successful bidder will be responsible for the integration of the Cameras with the proposed solution for recording of video feeds. The solution should be configured in such a way, so that the video feeds would be kept for 30 days. After 30 days, the video feeds would be overwritten unless it is flagged or marked by the appropriate authority for investigation or any other purpose.
30. All cameras recording will happen at Local NVR.

I. Central Infrastructure: For District Office (DO) Command Control Center

31. At DO level workstation/server and 21.5" display will be installed for monitoring purpose.
32. The remote monitoring software will be configured with adequate license to view all the cameras of various respective sites in a single display. Remote monitoring software will be installed in Workstation/server.
33. The proposed solution should be capable for remote monitoring & mobile viewing of any camera to be installed in any godown through Smart phone (mobile) either through application or through browser from anywhere through internet.
34. Live video and play back can be monitored by DO Workstation/server.
35. On demand or Auto tour video live monitoring will happen at DO.
36. At-least 32 camera viewing in single screen will be possible simultaneously in the remote monitoring software. Auto sequencing to bring all feeds and then to pan in and zoom on one or more cameras simultaneously on the Display Unit.

J. Central Infrastructure: For State HQ center (ICCC)

37. VMS Software will be installed in Workstation/server and respective Godowns camera will be added on State center.
38. Live video and play back will be managed by State center Workstation, In case there will be any video need to be recorded manually then it can be recorded to Storage and if any video need to download from Godown NVR then during playback it can be downloaded and stored in Storage.
39. For each 250 cameras, the bidder is required to provide 1 work stations with Central monitoring server (CMS). There will be auto tour configured on VMS with 32 channels single screen and 5 minutes per cycle. Emergency recording and snapshots shall be captured manually from CMS to local storage, Video evidence can be downloaded from local NVR through CMS which can be stored in local storage for further investigation.
40. Minimum configuration of the workstation for VMS has been detailed in Technical specifications.
41. Bidder will have to provide required workstation/Server for Live Viewing and Recorded viewing as per requirement of CMS Software and all input and output devices will be connected to Video wall/CCC.
42. On demand or Auto tour video live monitoring will happen at state center. The video or Snapshot stored in Storage can be viewed directly from Storage which stored with date/time attributes. The Storage can be accessed by workstation and view the recorded files.
43. In Core Switch at central location, bidder should consider the required module for connecting Server, Storage and Video wall.

44. Bidder has to consider workstations for the overall monitoring & configuration of the setup at state center.
45. Bidder should supply, installation, commissioning & testing of Workstation, Monitors, network switches, controller, video management software with adequate user licenses, along with cabinets, enclosures, fixtures, cables, connectors and any other devices, peripherals required for the proper functioning of various components as per the proposal.
46. The local video management software will be configured to view all the cameras of various sites in a single video wall with zero Bezel Gap. The images displayed shall have a watermark for easy identification.
47. Command and control to be designed for 24*7 operation should provide enhanced productivity and user-friendly operation in terms of new product and technology.
48. Multiple level of monitoring of all locations – Both live and offline management.
49. A high-end video wall will have a grand over view of entire setup along with video and health management.
50. The transmission of images/videos through internet will be having industry standard protocol with secured authentication.
51. All the videos from bullet & PTZ IP cameras should be recorded at local NVR and on demand to central ICCC storage.
52. LED Videowall OEM should have Safety Standard UL/ equivalent Indian Standard, CB/Safety60950-1/ equivalent Indian Standard, EMC/ equivalent Indian Standard, FCC/ equivalent Indian Standard and BIS Certification.
53. Live IP based camera viewing facility should be available either individual or with multiple viewing option. i.e. the user can view any individual or multiple cameras installed remotely at different godown, Live static IP and require bandwidth will be provided by bidder at end location and Central Location at CCC Room for Smooth operation at Command Control room for Live Viewing and Recording Data back.

K. Centralized Network Health and Performance management for Higher SLA

54. NMS/HMS system will be installed and configured at ICCC.
55. All Cameras and Storage Health monitoring and management will be performed.
56. Minimum configuration of the workstation for NMS/HMS has been detailed in Technical specifications.
57. All Network device health and performance management will be performed.
58. Instant alerts will be generated to representative if any device is down and escalated to multiple authorities, Weekly and month reports will be generated automatically for performance management.

L. Complete Integrated and Centralized Solution

59. Access to live and recorded video from regional and state level
60. QoS will be configured for prioritize Surveillance footage and data transfer. QoS controls and manages network resources by setting priorities for specific types of data on the network.

M. Data / Video Transfer through Highly secured Virtual Private Network

61. Complete future proof Hardware for Load balancing / Failover over WAN when multiple ISP connected.
62. High Performance Surveillance system
63. High Definition IP Cameras
64. Single cable management system – all Cameras POE enabled including PTZ Cameras

N. High availability Fault tolerance storage system

- 65. Primary Storage of 30 days at local warehouse through NVR.
- 66. Secondary storage of archive of important alert-based video footage at District central.
- 67. Third Layer storage of archive of important alert-based video footage at State central.

O. Multiple layer monitoring through Video management system

- 68. Local monitoring at Godown by Warehouse representative.
- 69. Second level monitoring at District office by DO representative.
- 70. Third level monitoring at ICCC of all locations overview using zero bezel gap video wall arrangements
- 71. All live video monitoring over wan will be optimized based on available bandwidth.

P. Site Survey

- 72. At the begin of installation work, successful bidder shall make a joint survey of all the designated sites along with the Tenderer's Customer and mark the locations of the cameras on a signed survey report.
- 73. Complete installation work should be performed as per the signed survey report.
- 74. Survey report duly signed by Tenderer's Customer & the successful bidder or its representative shall be submitted along with the invoice for claiming payment.

Q. Internet Connectivity

- 75. At Godown/Warehouse, Internet line facility of 20 MBPS bandwidth shall be arranged at each site.
- 76. At District office, Internet line facility of 50 MBPS bandwidth shall be arranged at each site.
- 77. At ICCC, Internet Lease line of 150 MBPS bandwidth shall be arranged.

R. Over and above, the bidder to consider following points while offering the products and services as a part of the bid

- 78. All the cameras shall be connected through network to NVR placed in Warehouse control centre.
- 79. Each NVR & storage and other required hardware should have adequate throughput for smooth running of camera feed.
- 80. Bidder should supply GI pipe and also do the asphalt cutting/boaring/RCC/plaster cutting as per site requirements.
- 81. Bidder should also consider necessary electrification as per site requirements. Bidder has to take Power for rack from any nearest electrical point.
- 82. Accessories of Video Wall - Type of Inputs should be HDMI, HD Base T / Receiver Input.
- 83. Tenderer should be able to connect, view and monitor any Camera installed in the campus/Site from its local device.
- 84. All the hardware and software features mentioned in the tender specifications should be available at the time submission of tender.

S. Electrical Connectivity

- 85. The successful bidder has to carry out proper electrical earthing (as per IS-3043) at all the warehouse where cameras to be installed. The cost for the earthing will be borne by the bidder.
- 86. The bidder is responsible for protecting all the devices or equipment from input power i.e. overload, over voltage

or current, spikes etc.

87. Tenderer will provide electric point at single location in each Godown/Warehouse, thereafter, bidder is responsible for required electricity work for successful functioning of proposed surveillance system within the campus of respective site/location.

T. System Training

88. This shall include providing 2-days hands on training related to system operation of the installed peripherals/equipment's to the designated/authorized representative of respective site after the successful commissioning of the project. Appropriate training material should be provided by the bidder during the training. All the cost associated with such training have to be borne by the bidder.

U. Technical Resource

89. The deployed resource should be present during the normal office hour at ICC. However, if required he shall remain present beyond office hours as per the requirement of the Office.
90. Deputed resource should have adequate knowledge regarding troubleshooting of computer C.P.U., IP CCTV camera, NVR, VMS and other IT peripherals.
91. Appropriate call register and ticket handling status system should be in place to log and track troubleshooting activity.

V. Site-wise I&C certificate

92. The successful bidder has to submit end user work completion certificate of all sites at the end of the installation and commissioning work and get this stamp-signed by the Warehouse In-charge.
93. After handover of site, any job of Shifting and/or reinstallation of the CCTV System/items shall be paid to the bidder by Tenderer at the quoted unit rates in the price bid.

W. Warranty Period

94. The warranty period of the system shall commence from the date of submission of work completion certificate.
95. The successful bidder has to provide on-site warranty for the material supplied & installed from the date of commissioning, as mentioned in RFP for a duration of two years.
96. After the successful completion of the warranty period of 2 years, the service provider shall provide O&M support (for a maximum period of 3 years) as per Tenderer's requirement.

X. Structured Cabling work

97. Bidder is responsible for laying of required LAN, OFC cables (6 Core Single mode) along with its required accessories like PVC Conduit, HDPE Pipe, GI Pipe, LIU, Pig tail, laying, reinstating the site in its original condition, casing, capping, tagging etc.) for the surveillance infrastructures asked in the RFP. Bidder has to follow industry best practices of structured cabling like proper laying, tagging, capping, casing, clamping etc.
98. Best practices of OFC/CAT 6 cable Laying:
 - a. Based on the requirement of the RFP bidder will have to lay the Fiber, CAT6 cable, the same has to be over-ground or underground as seem suitable during site survey. The Below mentioned best practices to be followed for Underground Cable Laying:
 - b. The Under-Ground Cables should be buried to a depth such that the top of the cable is One meter

- below the normal ground level.
 - c. Excavations of trench up to a depth such that the top of the cable is 0.5 meter below the normal ground.
 - d. Laying and pulling of cables in trenches are through GI pipes/ ducts.
 - e. Placing of Half round RCC Pipes / Stones slabs /Pre-cast RCC Slabs /Layer of Bricks
 - f. All the cables should be weather proof, outdoor grade and compliant as per the industry standards
 - g. The bidder is required to submit necessary supporting document in this regard along with the Technical Bid Document.
 - h. Proper Route marker/indicators for OFC cable should be placed for every 100 meters.
 - i. Back filling in compacting of the excavated trenches according to the construction's specifications and removal of excess earth from the site. Restoration of site in original condition upon completion of work.
99. The bidder will have to submit a detailed technical solution document including layout diagram and proposed network architecture before installation indicating the location of equipment to be installed to respective Office of the TENDERER's Customer for approval before implementation. The bidder has to use the existing infrastructure of LAN, if available at each location. The bidder has to take approval of respective Office of the TENDERER's Customer for Schematics Diagram (Layout) for Cabling & laying work. Concern person of the warehouse along with successful bidder will decide the location of installation during the site survey.
100. The bidder will have to do its own assessment/ measurements for finalization of scope of work / supply before submission of their bid.
101. Installation, termination and identification of wiring between station outlets and equipment room shall be considered part of the bidder work.
102. The Successful Bidder has to furnish working drawings and as-built drawings, which shall be an essential component of commissioning.
103. The Passive Components of structured cabling distribution network will be free from manufacturing defects in material and workmanship under normal and proper use.

Y. Installation of Active Components

104. Supply, Installations, Testing & Commissioning of all the active components required for successfully running and maintenance of the entire system as per scope of work, functional and Technical specification of this RFP document.
105. Required active components will be installed at the locations identified for the surveillance.
106. The cameras have to be connected to the switches.
107. Bidder has to install UPS along with necessary electrification, power protection and connecting it with all devices asked under this RFP.

Z. IT & Non-IT Infrastructure

Bidder shall provide the IT hardware/software and Non-IT infrastructure at the following locations:

S. No.	Location Type	Number of Sites	Indicative Infrastructure
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1	Integrated Command Control centre at State HQ	1	<ul style="list-style-type: none"> • LED Video Wall with minimum size 55" in 5x2 matrix • Operator workstations with 5 display monitors • Servers • Software application • Online UPS with batteries • Network switches, Firewall etc. • Furniture for System monitoring and management • Internet Lease line of 150 MBPS bandwidth
2	District Office Command Control centre	17	<ul style="list-style-type: none"> • Workstation with 21.5" display • Invertor UPS with batteries • Internet line of 50 Mbps bandwidth
3	Warehouse / Godown	91	<ul style="list-style-type: none"> • Surveillance system components including IP CCTV cameras • Invertor UPS with batteries • Network switches • Network connectivity • Internet line of 20 Mbps bandwidth

AA. Operations and Maintenance

I. Manpower Requirement

- The bidder has to ensure that appropriate qualified manpower with requisite skill sets is deputed at the respective locations defined in the below table. The bidder shall depute the resources as per the requirements for carrying out the O&M Activity and maintaining the SLA during contract period.
- The minimum requirement of manpower, their qualification and responsibility of each resource is given below:

S/N	Locations	Professional Experience	Roles and Responsibilities
1	One Centre In-charge and Three Helpdesk operators at Integrated Command Control center	a) 5+ Years of post-Qualification experience for Centre In-charge in ICT, IP CCTV surveillance, LAN/WAN, IT infrastructure	<ul style="list-style-type: none"> • Responsible for overall Operations and management of the existing as well as new IT Infrastructure, hardware, peripherals of respective site including LAN/WAN, IP CCTV Surveillance system, MIS Reporting, SLA Management etc. • Managing day-to-day activity and project operations to meet SLA • Preparation of Report including day to day activity,

	<p>should be available between 9 am to 5 pm on Monday to Friday.</p>	<p>projects.</p> <p>b) 2+ Years of post-Qualification experience for Helpdesk operator in ICT, IP CCTV surveillance, LAN/WAN, IT infrastructure projects.</p>	<p>Call logging, up time, down time, response time of each event & submission of quarterly report to respective officer as a supportive document for O&M activity.</p> <ul style="list-style-type: none"> • Maintain Call Register • Deputed manpower shall be responsible to Reporting Concern DO or as decided by Tenderer's Customer. This manpower has to attend the call related to all godown. The cost for the transportation of Engineer's visit to Warehouse site will be borne by the successful agency. • Configuration of camera, NVR, VMS, network switch etc. • Troubleshooting of entire system. • Replacement of faulty equipment, demand and supply of required hardware from the spare hardware. • Monitoring complain status, follow up for complain resolution and responsible for resolve complain in time bound manner as decide in the SLA mentioned in this bid. • Deputed manpower shall be responsible to log the complaint related to connectivity, co-ordinate with connectivity vendor, follow up for logged complain related to connectivity and ticket generation for respective event and responsible to inform authority for connectivity complain and its resolution time and maintain the register for connectivity complaint. • Deputed manpower is responsible to follow the instruction received from respective officer related to configure the system as per requirement. • During the holiday if respective officer has asked to present for to ensure the system up and running then deputed manpower shall be responsible to remain present on holiday. • At the time of disaster or any such kind event deputed manpower have to present. • If respective officer wishes extract video clip then, Deputed manpower is responsible to extract the video clip, copy video clip and image in pen drive.
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- c. This is minimum indicative list of resource and based on actual requirements, the bidder may deploy any number of resources to meet the SLA. The TENDERER shall not pay any cost for additional resources required to operate, maintain, monitor & manage the SLA. In case support staff is not available or is on leave, the bidder is required to provide the alternative personnel with same or higher technical capabilities of the non-available personnel.
- d. The bidder shall be responsible for the deployment, transportation, accommodation, IT infrastructure and other requirements of all its employees required for the execution of the work and for all costs/charges in connection thereof.
- e. Tenderer will provide the required sitting space with table, chair, and electricity for day to day activity.
- f. The bidder shall maintain backup personnel and shall promptly provide replacement of every person removed pursuant to this section with an equally competent substitute from the pool of backup personnel.
- g. In case of change in its team composition owing to attrition, the Successful Bidder shall ensure at least a week of time-overlap in activities to ensure proper knowledge transfer and handover/takeover of documents and other relevant materials between the outgoing and the new member.

II. Roles and Responsibilities of Tenderer

- a. Provide access to selected agency for execution of Project.
- b. Provide space, raw power and approval to smoothly execute Project.
- c. Provide approval & facilitate agency for deciding location of camera in consultation with selected agency.
- d. Provide the sitting space to technical manpower at respective location of department.
- e. Monitor the project by logging complaint in time limit and monitoring and tracking of complaint resolution in time limit
- f. Maintaining & checking all register and calculation of downtime.

III. Maintenance, Service and Support

- a. The bidder shall further be responsible for providing required maintenance, service and necessary onsite support/OEM support for the entire contract duration from the date of successful completion of I&C of each site. The bidder shall do and perform the monthly and regularly preventive maintenance as part of the maintenance activity. It shall be the bidder's responsibility to replace any defective parts/ equipment's without any additional cost to the TENDERER. The defective part so replaced shall be the property of the bidder. The bidder shall keep enough spares at the SITE location/its own location during warranty and maintenance period to meet SLA parameters and the cost for the spare-parts are to be borne by the bidder. The bidder is expected to transfer the knowledge to the TENDERER or its nominated Technical Team.
- b. Bidder is required to keep some spares during contract period to provide immediate replacement during warranty period.
- c. Bidder has to provide 10 nos. of spare of quoted IP Camera, 5 nos. of Spare of Quoted NVR, 5 nos. of Network Switch and supporting cable accessories. Spare stock should be readily available with Bidder at all time during the project duration. So, that godown level replacement can be done by shortest possible time.
- d. All the Networking equipment and spares shall be kept in good working condition and shall be repaired or replaced. In case of any equipment which is under warranty the bidder would ensure that all equipment's are repaired/ replaced.
- e. All the electrical equipment and accessories, backup power sources, plugs, wires etc. shall be maintained and if required replaced by the successful bidder at its own cost.

- f. The Successful bidder shall also maintain an up-to-date inventory of all supported equipment and spares and make the same available for review and inspections as per requirement.

IV. Preventive Maintenance:

The bidder shall also be responsible for performing/carrying out preventive maintenance activity at least once in a quarter which includes cleaning, dusting and upkeep of interior and exterior, realignment of the deployed equipment's, configuration backup and software up-gradation/update of all hardware. The Bidder is required to submit preventive maintenance schedule for all equipment to TENDERER from time to time. After performing preventive maintenance activities, successful bidder is required to submit the detailed report of the same. All such activities should be done preferably during non-working hours or on non-working days/holidays.

BB. Project Implementations

1. Project Implementation Timelines

S/N	Deliverables	Timeline
a	Kick-off Meeting: (Submission of Detailed implementation plan/roadmap, Signing of contract agreement and submission of performance Bank Guarantee)	Within 15 Days from date of issuance of Lol/work order
b	Site survey: Initial site survey of 91 Godown/Warehouse to arrive at detailed BoQ of each site and submission of site survey report to designated Official. Designated Official has to revert with his Remarks (Accept/Reject) within a period of 2 days from the date of submission of site survey report. Note: This survey report duly signed by designated official & the bidder or its representative shall be submitted along with the invoice for claiming payment.	T1 = T+ 60 days
c	Items Delivery: Delivery of the approved BoQ items as per the Site survey report at Warehouse site.	T1 + 90 days
d	Installation & Commissioning: The successful bidder shall complete the Installation of CCTV camera and related accessories as per approved Site survey report at each warehouse/godown around the state.	T1+ 180 days

Note: T = Kick off meeting

Days = Calendar days

2. The bidder has to take the necessary approval of the TENDERER or its authorized representative for Schematics Diagram (Layout) before starting the implementation of the project.
3. The successful bidder will implement the project strictly as per the plan approved by the TENDERER. The successful bidder shall carry out cabling work at such locations as may be decided by the TENDERER within a specified period as specified in Instruction letter/LOI/Order and complete their provisional Acceptance Test to the satisfaction of the TENDERER and its user Departments within 10 days from the date specified. This period may be extended depending upon the fulfillment of Conditions Precedent.
4. Acceptance of work will be undertaken by the TENDERER/User Departments. All Invoices, Vouchers, Bills for supplied goods and services by the successful bidder under the scope of the work will be verified measured and accepted by the TENDERER or its designated agency for release of payment.
5. As part of implementation, the successful bidder shall provide details of equipment that will be incorporated in the proposed system, material and manpower as required. The location for storing spare parts and quantity there on should also be clearly indicated.
6. The successful bidder shall provide the necessary technical support, Standard Operating Procedure (SOP) and other information to the TENDERER and its user organizations in implementing the proposed system applications. The TENDERER at any time during the currency of the Agreement should have access to the proposed sites.
7. The successful bidder shall provide training to the TENDERER and its user Department's personnel at no additional cost to the TENDERER. The training schedule, content and modalities will be defined jointly by both the parties.
8. The successful bidder shall arrange to obtain all statutory permission with no cost to the TENDERER. The successful bidder may have to work during Holidays and Sundays, according to the urgency of work. The bidder will obtain such permission on his own in consultation with the TENDERER and its User Departments. It will be the responsibility of the successful bidder to co- ordinate with the TENDERER and its User Departments as necessary to execute the required job.
9. The successful bidder shall not disturb or damage the existing network of communication. If in case any damage to the network is done, the same shall be corrected with no extra cost. The successful bidder shall also be responsible for paying penalty, as imposed by the service owner to which the damage is incurred.
10. In case of the material/solution supplied and installed is rejected owing to its non-conformity to the specification or due to the poor quality of workmanship, the same shall be replaced promptly by the successful bidder.
11. The successful bidder shall treat all matters connected with the contract strictly confidential and shall undertake not to disclose, in any way, information, documents, technical data, experience and know how, without prior written permission from the TENDERER.
12. Any damage caused to the property of the TENDERER while executing the job shall be solely successful bidder's responsibility. In case any damage to the property is caused, the same will be recovered from the successful bidder. No any extra cost shall be paid to the successful bidder for such reasons.
13. The successful bidder shall have to furnish the documentation of the work undertaken in consultation with the TENDERER.
14. It is a 5 years turnkey project. The successful bidder shall be fully responsible for implementing the Project in totality and should include the items and their prices, if not included in Schedule of Requirement to complete the project on turnkey basis. Any claim whatsoever in this regard will not be entertained later on.
15. In the event of the delay in delivery of contracted goods and services or services is not satisfactory the purchaser may procure goods from elsewhere as prescribed in bid and the successful bidder shall be liable without limitations for the difference between the cost of such substitution and the price set forth in the contract for the goods involved i.e. at the risk and cost of the bidder.

16. The TENDERER or its designated agency reserve the right to visit any working site of the bidder with prior intimation. The concern bidder has to make necessary arrangement for the same.
17. The successful bidder shall be responsible and take required insurance for all of their representatives working on the site at their own cost. The TENDERER will not be responsible for any loss or damage to any of the representatives of the successful bidder during the said contract.
18. All work shall be performed and executed by the successful bidder in strict conformity with conditions laid down in the RFP and any relative instruction issued to the successful bidder by the TENDERER from time to time.
19. The TENDERER shall associate few engineers / technicians during installation and commissioning work. The successful bidder shall ensure proper participation of the nominated personnel(s) from the TENDERER's office or its user department's and train them on the services provided. Also, the successful bidder shall organize the systematic training of selected personnel from the TENDERER's office on the operation / management of equipment.
20. Bidder is required to co-ordinate with selected connectivity provider/bidder for successful commissioning of work as per scope of work.

CC. Optional Component

Below mentioned details entails to optional part of scope of work and will be finalized by procuring entity at the later stage (during Site-survey with successful bidder):

1. Automatic Number Plate Recognition (ANPR) System

- i. The bidder shall provide Automatic Number Plate Reader (ANPR) solution at the identified locations. The bidder shall follow the design, operational and physical requirements of the proposed ANPR system to demonstrate compliance with all the specified requirements of RFP.
- ii. The placement of the ANPR camera shall ensure no blind spot is left on the area being covered, thus ensuring capture of details of all the vehicles, passing through the demarcated area. It shall process the image using OCR software, for getting the registration number of the vehicle with highest possible accuracy. The system should be able to detect, normalize and enhance the image of the number plate for detection of alpha numerical characters.

2. ANPR Cameras

- i. The Implementation Agency shall install the ANPR cameras at the specified locations. This system shall automatically capture the license number plate of the vehicle at these locations.
- ii. All camera accessories such as IR Illuminators, camera housing and mounting shall be installed by the Implementation Agency. The Implementation Agency shall supply all of the necessary equipment for the camera and local processing system, including but not limited to: computers local storage, and ancillary camera equipment, camera poles, warning signs and shall make the final connections to the camera.
- iii. The Implementation Agency shall be responsible for providing the necessary IT infrastructure for detection, analysis, storage and retrieval of the number plate information at Command and Control Center (ICCC).

3. Local Processing Unit (LPU) for ANPR

- i. LPU required for the ANPR software, should support minimum 1 or more ANPR licenses as per site requirement It shall comply to following specification:
- ii. ANPR application should work on local processing unit. LPU shall send processed data to the central software. LPU should provide 7-days storage. Bidders to consider the solution design in such a way that any

LPU's failure at junction level shall not result in failure of more than one junction.

4. ANPR Software

- i. ANPR Software should use camera to capture the number plates, should not depend upon any hardware sensors.
- ii. The System shall automatically detect the license plate through the captured video feed in real-time.
- iii. The system shall perform OCR (optical character recognition) of the license Plate characters (English alpha-numeric characters in standard fonts).
- iv. The System shall store JPEG image of vehicle and license plate and enter the license plate number into DBMS like MySQL etc. database along with date and time stamp.
- v. System should be able to detect single row, double row, multi row, square and rectangular plates as well.
- vi. Detect, Recognize and Search License Plates.
- vii. The system Graphical User Interface should support English & Graphical User interface (GUI) should provide following information:
 - a. Image of the vehicle
 - b. Image of the number plate
 - c. Text conversion of number plate after using OCR (Optical Character Recognition) technology
 - d. Date and Time of offending vehicle
 - e. Event/images/chart of ANPR
- viii. Records and logs all License Plates at a scene, for forensic investigations.
- ix. Software should be able to integrate with VMS or third party VMS at central level.
- x. Should trigger the ANPR camera for number capturing.

10. INSTRUCTIONS TO BIDDERS

A. Sale of Bidding / RFP documents

- (i) The sale of bidding documents shall be commenced from the date of publication of Notice Inviting Bids (NIB) and shall be stopped as per NIB. The Notice Inviting Bids (NIB) along with Key date schedule shall be placed on the designated website portal. The prospective bidders shall be permitted to download the NIB document from the websites.
- (ii) The complete bidding documents, including but not limited to, 'RFP Scope of work, Bidder Pre-qualification criteria, General Terms & Conditions, Special Terms & Conditions, Annexures etc.' will be made available to only prospective bidder(s) who pays the price for it through Bank Demand Draft as per details mentioned on NIB to the designated Nodal officer of BECIL.
- (iii) The bidder has to submit the receiving copy of successful submission of Tender fee and EMD Demand Draft along with its Technical bid. If not complied, bid will not be considered for opening/evaluation and rejected out-rightly.
- (iv) The Procuring Entity is not responsible for the completeness of the Bidding Document and its addenda, if they were not obtained directly from the Procuring Entity or not downloaded correctly from the Procuring Entity's website.

B. Changes in Bidding Document

- (i) At any time, prior to the deadline for submission of Bids, the procuring entity may for any reason, whether on its own initiative or as a result of a request for clarification by a bidder, modify the bidding documents by issuing an addendum in accordance with the provisions below.
 - a. In case, any modification is made to the bidding document or any clarification is issued which materially affects the terms contained in the bidding document, the procuring entity shall publish such modification or clarification in the same manner as the publication of the initial bidding document.
 - b. In case, a clarification or modification is issued to the bidding document, the procuring entity may, prior to the last date for submission of Bids, extend such time limit in order to allow the bidders sufficient time to take into account the clarification or modification, as the case may be, while submitting their Bids.
- (ii) Any bidder, who has submitted his Bid in response to the original invitation, shall have the opportunity to modify or re-submit it, as the case may be, within the period of time originally allotted or such extended time as may be allowed for submission of Bids, when changes are made to the bidding document by the procuring entity; provided that the Bid last submitted or the Bid as modified by the bidder shall be considered for evaluation.

C. Period of Validity of Bids

- (i) Bids submitted by the bidders shall remain valid during the period specified in the NIB/ bidding document. A Bid valid for a shorter period shall be rejected by the procuring entity as non-responsive Bid.
- (ii) Prior to the expiry of the period of validity of Bids, the procuring entity, in exceptional circumstances, may request the bidders to extend the bid validity period for an additional specified period of time. A bidder

may refuse the request and such refusal shall be treated as withdrawal of Bid and in such circumstances bid security shall not be forfeited.

- (iii) Bidders that agree to an extension of the period of validity of their Bids shall extend or get extended the period of validity of bid securities submitted by them or submit new bid securities to cover the extended period of validity of their bids. A bidder whose bid security is not extended, or that has not submitted a new bid security, is considered to have refused the request to extend the period of validity of its Bid.

D. Format and Signing of Bids

- (i) Bidders must submit their bids physically at BECIL Noida office through a Tender box placed with concerned nodal officer.
- (ii) All the documents submitted should be stamp-signed by the authorized signatory and printed with clear readability.
- (iii) A Single stage Two part/ cover system shall be followed for the Bid:
 - a. Technical Bid, including fee details, eligibility & technical documents
 - b. Financial Bid
- (iv) The bidder should ensure that all the required documents, as mentioned in this bidding document, are submitted along with the Bid and in the prescribed format only. Non-submission of the required documents or submission of the documents in a different format/ contents may lead to the rejections of the Bid submitted by the bidder.

E. Cost and Language of Bid

- (i) The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the procuring entity shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- (ii) The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the procuring entity, shall be written only in English Language. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in English/ Hindi language, in which case, for purposes of interpretation of the Bid, such translation shall govern.

F. Alternative / Multiple Bids

Alternative/ Multiple Bids shall not be considered at all. Also, the bidder shall not quote for multiple brands/ make/ models but only one in the technical Bid and should also mention the details of the quoted make/ model in the required Annexure for Components Offered.

G. Bid Prices

- (i) The price/ financial bid must be submitted without changing its form and type.
- (ii) Price quoted in the bid must be firm and final and shall not be subject to any modifications, on any account whatsoever. The price quoted shall include all costs and duties applicable, except GST, to the bidder as per the law of the Central/ State Government/ Local Authorities, unless specifically asked for separately or excluded. Revision (increase/ decrease) in the rate of GST shall be on account of the procuring entity. In case any new tax is levied by the Government, the same shall be paid by the Procuring Entity to the bidder from the date of

imposing of such tax.

- (iii) All the prices shall be quoted by the Bidder entirely in Indian Rupees (INR). All payments shall be made in Indian Rupees only.
- (iv) Prices/ Rates shall be written both in figures and words, as applicable.
- (v) Procuring entity will not pay any cartage or transportation charges over & above the quoted rates.
- (vi) The price to be quoted in the financial bid shall be the total price of the bid. Discount, if any, should be included in the quoted price.

H. Earnest Money Deposit

- (i) Earnest Money of INR 10,00,000/- (Ten Lac) only shall be deposited in the form of Demand Draft only drawn in favor of the "Broadcast Engineering Consultants India Limited" payable at "Noida" with the Technical Bid.
- (ii) Any Tender without EMD in a manner other than what is mentioned above is liable to be rejected at the discretion of Department authorities. EMD should be valid for at least 90 days.
- (iii) If for any reason, whatsoever, any Bidder withdraws or amends the Bid in any respect within the validity period or fails to enter into a contract for award of work, the entire EMD amount will be forfeited.
- (iv) Refund of EMD: Earnest Money Deposit will not carry any interest. Earnest Money so deposited by unsuccessful Bidders will be refunded after the signing of contract agreement with successful bidder. EMD of successful Bidder will be refunded after the successful Bidder furnishes the Security Deposit cum Performance Guarantee.
- (v) Bidder has to submit EMD Demand Draft to the BECIL Nodal Officer in Hard copy, before 13 August, 2021 up to 03:00 p.m. Receipt of successful submission of EMD has to be uploaded online with the Technical bid. If not complied, bid will not be considered for opening and rejected out-rightly.
- (vi) Bidders shall submit EMD in a sealed envelope tiled "RFP document for Selection of Master System Integrator (MSI) for Supply, Implementation, Operation & Maintenance of Surveillance System under Safe Warehouse Project of Haryana" to the designated Nodal officer of BECIL. Scanned copy of EMD also needs to be uploaded along with Technical bid. If the EMD is not received by the prescribed date and time, the proposal submitted by the bidder will be liable to be summarily rejected.

I. Performance Security cum Performance Guarantee

Security Deposit for proper and timely fulfilment of the contract has to be furnished by the successful Bidder within 30 working days from the date of Agreement cum receipt of work order and also required to furnish a guarantee on a stamp paper of 100/- duly attested by a Notary Public to the effect that he shall maintain Secrecy and Confidentiality of the documents. No exemption will be made.

The Performance Security cum Performance Guarantee of 10% of Project quote value ('A+B+C' as per Financial bid format) by furnishing a Bank guarantee or Demand Draft or Fixed Deposit Receipt issued by a Nationalized/ Scheduled Bank approved by RBI drawn in favor of the "Broadcast Engineering Consultants India Limited" payable at "Noida". The Security Deposit can also be made in the shape of Guarantee Bond executed by a Nationalized/ Scheduled Bank.

The Performance Security cum Performance Guarantee could be made for a period of 5 years, till completion of contract period.

Security Deposit will be retained by the procuring entity till satisfactory completion of the work. It should be clearly understood that in the event of the Contract not being executed and completed as per the quality and time schedule laid down, the same is liable to be forfeited. This will be in addition to the penalty, if any, which may be imposed as specified in the delivery schedule.

Procuring entity will return the PBG within 30 days of completion of contract period.

J. Deadline for Submission of bids

- (i) Bids shall be submitted as applicable and up to the time and date specified in the NIB.
- (ii) Normally, the date of submission and opening of Bids would not be extended. In exceptional circumstances or when the bidding document are required to be substantially modified as a result of discussions or otherwise and the time with the prospective bidders for preparation of Bids appears insufficient, the date may be extended by the procuring entity. In such case the publicity of extended time and date shall be given in the manner, as was given at the time of issuing the original NIB and shall also be placed on the designated website, if applicable. It would be ensured that after issue of corrigendum, reasonable time is available to the bidders for preparation and submission of their Bids. The procuring entity shall also publish such modifications in the bidding document in the same manner as the publication of initial bidding document. If, in the office of the Bids receiving and opening authority, the last date of submission or opening of Bids is a non-working day, the Bids shall be received or opened on the next working day.

K. Withdrawal, Substitution, and Modification of Bids

- (i) If permitted, a Bidder may withdraw its Bid or re-submit its Bid (technical and/ or financial cover) as per the instructions/ procedure.
- (ii) Bids withdrawn shall not be opened and processed further.
- (iii) No bid shall be withdrawn, substituted, or modified after the last time and date fixed for receipt of bids.

L. Opening of Bids

- (i) The Bids shall be opened by the bid opening & evaluation committee on the date and time mentioned in the NIB in the presence of the bidders or their authorised representatives who choose to be present.
- (ii) The committee may co-opt experienced persons in the committee to conduct the process of Bid opening.
- (iii) The committee shall prepare a list of the bidders or their representatives attending the opening of Bids and obtain their signatures on the same. The list shall also contain the representative's name and telephone number and corresponding bidders' names and addresses. The authority letters, if any, brought by the representatives shall be attached to the list. The list shall be signed by all the members of Bid opening committee with date and time of opening of the Bids.
- (iv) All the documents comprising of technical Bid/ cover shall be opened (only for the bidders who have submitted the prescribed fee(s) of RFP).
- (v) The committee shall conduct a preliminary scrutiny of the opened technical Bids to assess the prima-facie

responsiveness and ensure that the:

- a. bid is accompanied by bidding document fee, earnest money deposit fee;
 - b. bid is valid for the period, specified in the bidding document;
 - c. bid is unconditional and the bidder has agreed to give the required performance security deposit; and
 - d. Other conditions, as specified in the bidding document are fulfilled.
 - e. Any other information which the committee may consider appropriate.
- (vi) No Bid shall be rejected at the time of Bid opening except the Bids not accompanied with the proof of payment or instrument of the required price of bidding document, processing fee and bid security.
- (vii) The Financial Bid cover shall be kept unopened and shall be opened later on the date and time intimated to the bidders who qualify in the evaluation of technical Bids.

M. Evaluation / Selection method

As per Clause no. 8 i.e. Overall Evaluation criteria mentioned in this RFP.

N. Clarification of Bids

- (i) To assist in the examination, evaluation, comparison and qualification of the Bids, the bid evaluation committee may, at its discretion, ask any bidder for a clarification regarding its Bid. The committee's request for clarification and the response of the bidder shall be through Electronic mail.
- (ii) Any clarification submitted by a bidder with regard to its Bid that is not in response to a request by the committee shall not be considered.
- (iii) No change in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the committee in the evaluation of the financial Bids.
- (iv) No substantive change to qualification information or to a submission, including changes aimed at making an unqualified bidder, qualified or an unresponsive submission, responsive shall be sought, offered or permitted.

O. Evaluation & Tabulation of Technical Bids

(i) Determination of Responsiveness

- a) The bid evaluation committee shall determine the responsiveness of a Bid on the basis of bidding document and the provisions of pre-qualification/ eligibility criteria of the bidding document.
- b) A responsive Bid is one that meets the requirements of the bidding document without any material deviation, reservation, or omission where: -
 - "deviation" is a departure from the requirements specified in the bidding document;
 - "reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the bidding document; and
 - "Omission" is the failure to submit part or all of the information or documentation required in the bidding document.
- c) A material deviation, reservation, or omission is one that,
 - a. if accepted, shall:
 - affect in any substantial way the scope, quality, or performance of the subject matter of procurement specified in the bidding documents; or
 - limits in any substantial way, inconsistent with the bidding documents, the procuring entity's rights or the bidder's obligations under the proposed contract; or
 - b. if rectified, shall unfairly affect the competitive position of other bidders presenting responsive

Bids.

- d) The bid evaluation committee shall examine the technical aspects of the Bid in particular, to confirm that all requirements of bidding document have been met without any material deviation, reservation or omission.
- e) The procuring entity shall regard a Bid as responsive if it conforms to all requirements set out in the bidding document, or it contains minor deviations that do not materially alter or depart from the characteristics, terms, conditions and other requirements set out in the bidding document, or if it contains errors or oversights that can be corrected without touching on the substance of the Bid.

(ii) Non-material Non-conformities in Bids

- a) The bid evaluation committee may waive any non-conformity in the Bid that does not constitute a material deviation, reservation or omission, the Bid shall be deemed to be substantially responsive.
- b) The bid evaluation committee may request the bidder to submit the necessary information or document like audited statement of accounts/ CA Certificate, Registration Certificate, GST clearance certificate, ISO certificate, etc. within a reasonable period of time. Failure of the bidder to comply with the request may result in the rejection of its Bid.
- c) The bid evaluation committee may rectify non-material nonconformities or omissions on the basis of the information or documentation received from the bidder under (b) above.

(iii) Technical Evaluation

Bids shall be evaluated based on the documents submitted as part of technical bid. Technical bid shall contain all the documents as asked in the RFP. The bidders shall present the samples when asked by the Technical Committee.

(iv) Tabulation of Technical Bids

- a) If Technical Bids have been invited, they shall be tabulated by the bid evaluation committee in the form of a comparative statement to evaluate the qualification of the bidders against the criteria for qualification set out in the bidding document.
- b) The members of bid evaluation committee shall give their recommendations below the table as to which of the bidders have been found to be qualified in evaluation of Technical Bids and sign it.
- c) The number of firms qualified in technical evaluation, if less than three and it is considered necessary by the procuring entity to continue with the procurement process, reasons shall be recorded in writing and included in the record of the procurement proceedings.
- d) The bidders who qualified in the technical evaluation shall be informed in writing about the date, time and place of opening of their financial Bids.

P. Evaluation & Tabulation of Financial Bids

Subject to the provisions of "Acceptance of Successful Bid and Award of Contract" below, the procuring entity shall take following actions for evaluation of financial Bids:

- (i) The financial Bids of the bidders who qualify in technical evaluation, as per technical evaluation method described in Clause 'Evaluation/ Selection Method', shall be opened at the notified time, date and place by the bid evaluation committee in the presence of the bidders or their representatives who choose to be present;
- (ii) The process of opening of the financial Bids shall be similar to that of technical Bids.
- (iii) Conditional Bids are liable to be rejected;

- (iv) The evaluation shall include all costs and duties applicable, except GST, to the bidder as per law of the Central/ State Government/ Local Authorities, and the evaluation criteria specified in the bidding documents shall only be applied;
- (v) The offers shall be evaluated and marked as per Overall Evaluation criteria defined in this RFP.
- (vi) The bid evaluation committee shall prepare a comparative statement in tabular form in accordance with rules along with its report on evaluation of financial Bids and recommend the lowest offer for acceptance to the procuring entity, if price is the only criterion, or most advantageous Bid in other case;
- (vii) The members of bids evaluation committee shall give their recommendations below the table regarding lowest Bid or most advantageous Bid and sign it.
- (viii) It shall be ensured that the offer recommended for sanction is justifiable looking to the prevailing market rates of the goods, works or service required to be procured.

Q. Negotiations

- (i) Except in case of procurement by method of single source procurement or procurement by competitive negotiations, to the extent possible, no negotiations shall be conducted after the pre-bid stage. All clarifications needed to be sought shall be sought in the pre-bid stage itself.
- (ii) Negotiations may, however, be undertaken only with the lowest or most advantageous bidder when the rates are considered to be much higher than the prevailing market rates.
- (iii) The bid evaluation committee shall have full powers to undertake negotiations. Detailed reasons and results of negotiations shall be recorded in the proceedings.
- (iv) The lowest or most advantageous bidder shall be informed in writing either through messenger or by registered letter and e-mail (if available). A minimum time of seven days shall be given for calling negotiations. In case of urgency the bid evaluation committee, after recording reasons, may reduce the time, provided the lowest or most advantageous bidder has received the intimation and consented to regarding holding of negotiations.
- (v) Negotiations shall not make the original offer made by the bidder inoperative. The bid evaluation committee shall have option to consider the original offer in case the bidder decides to increase rates originally quoted or imposes any new terms or conditions.
- (vi) In case of non-satisfactory achievement of rates from lowest or most advantageous bidder, the bid evaluation committee may choose to make a written counter offer to the lowest or most advantageous bidder and if this is not accepted by him, the committee may decide to reject and re-invite Bids or to make the same counter-offer first to the second lowest or most advantageous bidder, then to the third lowest or most advantageous bidder and so on in the order of their initial standing and work/ supply order be awarded to the bidder who accepts the counter-offer. This procedure would be used in exceptional cases only.
- (vii) In case the rates even after the negotiations are considered very high, fresh Bids shall be invited.

R. Exclusion of Bids/ Disqualification

- (i) A procuring entity shall exclude/ disqualify a Bid, if:
 - a. the information submitted, concerning the qualifications of the bidder, was false or constituted a misrepresentation; or
 - b. the information submitted, concerning the qualifications of the bidder, was materially inaccurate or incomplete; and
 - c. the bidder is not qualified as per pre-qualification/ eligibility criteria mentioned in the bidding document;
 - d. the Bid materially departs from the requirements specified in the bidding document or it contains false

- information;
 - e. the bidder, submitting the Bid, his agent or any one acting on his behalf, gave or agreed to give, to any officer or employee of the procuring entity or other governmental authority a gratification in any form, or any other thing of value, so as to unduly influence the procurement process;
 - f. a bidder, in the opinion of the procuring entity, has a conflict of interest materially affecting fair competition.
 - g. a bidder currently blacklisted by Central / State Government / Departments / PSUs in India as on bid submission date.
- (ii) A Bid shall be excluded/ disqualified as soon as the cause for its exclusion/ disqualification is discovered.
- (iii) Every decision of a procuring entity to exclude a Bid shall be for reasons to be recorded in writing and shall be:
- a. communicated to the concerned bidder in writing;
 - b. published on the website, if applicable.

S. Lack of Competition

- (i) A situation may arise where, if after evaluation of Bids, the bid evaluation committee may end-up with one responsive Bid only. In such situation, the bid evaluation committee would check as to whether while floating the NIB all necessary requirements to encourage competition like standard bid conditions, industry friendly specifications, wide publicity, sufficient time for formulation of Bids, etc. were fulfilled. If not, the NIB would be re-floated after rectifying deficiencies. The bid process shall be considered valid even if there is one responsive Bid, provided that: -
- a. the Bid is technically qualified;
 - b. the price quoted by the bidder is assessed to be reasonable;
 - c. the Bid is unconditional and complete in all respects;
 - d. there are no obvious indicators of cartelization amongst bidders; and
 - e. the bidder is qualified as per the provisions of pre-qualification/ eligibility criteria in the bidding document
- (ii) The bid evaluation committee shall prepare a justification note for approval by the next higher authority of the procuring entity, with the concurrence of the accounts member.
- (iii) In case of dissent by any member of bid evaluation committee, the next higher authority in delegation of financial powers shall decide as to whether to sanction the single Bid or re-invite Bids after recording reasons.
- (iv) If a decision to re-invite the Bids is taken, market assessment shall be carried out for estimation of market depth, eligibility criteria and cost estimate.

T. Acceptance of Successful Bid and Award of Contract

- (i) The procuring entity after considering the recommendations of the bid evaluation committee and the conditions of Bid, if any, financial implications, trials, sample testing and test reports, etc., shall accept or reject the successful Bid. If any member of the bid evaluation committee has disagreed or given its note of dissent, the matter shall be referred to the next higher authority, as per delegation of financial powers, for decision.
- (ii) Decision on Bids shall be taken within original validity period of Bids and time period allowed to procuring entity for taking decision. If the decision is not taken within the original validity period or time limit allowed for taking decision, the matter shall be referred to the next higher authority in delegation of financial powers for decision.
- (iii) Before award of the contract, the procuring entity shall ensure that the price of successful Bid is reasonable and consistent with the required quality.
- (iv) A Bid shall be treated as successful only after the competent authority has approved the procurement in terms

of that Bid.

- (v) The procuring entity shall award the contract to the bidder whose offer has been determined to be the lowest or most advantageous in accordance with the evaluation criteria set out in the bidding document and if the bidder has been determined to be qualified to perform the contract satisfactorily on the basis of qualification criteria fixed for the bidders in the bidding document for the subject matter of procurement.
- (vi) Prior to the expiration of the period of bid validity, the procuring entity shall inform the successful bidder, in writing, that its Bid has been accepted.
- (vii) As soon as a Bid is accepted by the competent authority, its written intimation shall be sent to the concerned bidder by registered post or email and asked to execute an agreement in the format given in the bidding documents on a non-judicial stamp of requisite value and deposit the amount of performance security or a performance security declaration, if applicable, within a period specified in the bidding documents or where the period is not specified in the bidding documents then within fifteen days from the date on which the letter of acceptance or letter of intent is dispatched to the bidder.
- (viii) If the issuance of formal letter of acceptance is likely to take time, in the meanwhile a Letter of Intent (LOI) may be sent to the bidder. The acceptance of an offer is complete as soon as the letter of acceptance or letter of intent is posted and/ or sent by email (if available) to the address of the bidder given in the bidding document. Until a formal contract is executed, the letter of acceptance or LOI shall constitute a binding contract.
- (ix) The bid security of the bidders whose Bids could not be accepted shall be refunded soon after the contract with the successful bidder is signed and its performance security is obtained.

U. Information and publication of award

Information of award of contract shall be communicated to successful bidder and published on the respective website, if applicable.

V. Procuring entity's right to accept or reject any or all Bids

The Procuring entity reserves the right to accept or reject any Bid, and to annul (cancel) the bidding process and reject all Bids at any time prior to award of contract, without thereby incurring any liability to the bidders.

W. Execution of agreement

- (i) A procurement contract shall come into force from the date on which the letter of acceptance or letter of intent for contract is dispatched to the bidder.
- (ii) The successful bidder shall sign the agreement within 15 days from the date on which the letter of acceptance or letter of intent for contract is dispatched to the successful bidder.
- (iii) If the bidder, whose Bid has been accepted, fails to sign a written agreement or fails to furnish the required performance security within specified period, the procuring entity shall take action against the successful bidder as per the provisions of the bidding document and Act. The procuring entity may, in such case, cancel the contract/ procurement process or if it deems fit, offer for acceptance the rates of lowest or most advantageous bidder to the next lowest or most advantageous bidder, in accordance with the criteria and procedures set out in the bidding document.
- (iv) The bidder will be required to execute the agreement on a non-judicial stamp, to be purchased from anywhere in Delhi NCR only, of specified value at its own cost.

X. Confidentiality

- (i) Notwithstanding anything contained in this bidding document but subject to the provisions of any other law for the time being in force providing for disclosure of information, a procuring entity shall not disclose any information if such disclosure, in its opinion, is likely to:
 - a. impede enforcement of any law;
 - b. affect the security or strategic interests of India;
 - c. affect the intellectual property rights or legitimate commercial interests of bidders;
 - d. affect the legitimate commercial interests of the procuring entity in situations that may include when the procurement relates to a project in which the procuring entity is to make a competitive bid, or the intellectual property rights of the procuring entity.
- (ii) The procuring entity shall treat all communications with bidders related to the procurement process in such manner as to avoid their disclosure to competing bidders or to any other person not authorized to have access to such information.
- (iii) The procuring entity may impose on bidders and sub-contractors, if there are any for fulfilling the terms of the procurement contract, conditions aimed at protecting information, the disclosure of which violates (a) above.
- (iv) In addition to the restrictions specified above, the procuring entity, while procuring a subject matter of such nature which requires the procuring entity to maintain confidentiality, may impose condition for protecting confidentiality of such information.

Y. Cancellation of procurement process

- (i) If any procurement process has been cancelled, it shall not be reopened but it shall not prevent the procuring entity from initiating a new procurement process for the same subject matter of procurement, if required.
- (ii) A procuring entity may, for reasons to be recorded in writing, cancel the process of procurement initiated by it
 - a. at any time prior to the acceptance of the successful Bid; or
 - b. after the successful Bid is accepted.
- (iii) The procuring entity shall not open any bids or proposals after taking a decision to cancel the procurement and shall return such unopened bids or proposals.
- (iv) The decision of the procuring entity to cancel the procurement and reasons for such decision shall be immediately communicated to all bidders that participated in the procurement process.
- (v) If the bidder who's Bid has been accepted as successful fails to sign any written procurement contract as required, or fails to provide any required security for the performance of the contract, the procuring entity may cancel the procurement process.
- (vi) If a bidder is convicted of any offence under the Act, the procuring entity may: -
 - a. cancel the relevant procurement process if the Bid of the convicted bidder has been declared as successful but no procurement contract has been entered into;
 - b. rescind (cancel) the relevant contract or forfeit the payment of all or a part of the contract value if the procurement contract has been entered into between the procuring entity and the convicted bidder.

Z. Interference with Procurement Process

A bidder, who:

- withdraws from the procurement process after opening of financial bids;
- withdraws from the procurement process after being declared the successful bidder;
- fails to enter into procurement contract after being declared the successful bidder;
- fails to provide performance security deposit or any other document or security required in terms of the bidding

documents after being declared the successful bidder, without valid grounds, shall, in addition to the recourse available in the bidding document or the contract, be punished with fine which may extend to fifty lakh rupees or ten per cent of the assessed value of procurement, whichever is less.

AA. Monitoring of Contract

- (i) An officer or a committee of officers named Contract Monitoring Committee (CMC) may be nominated by procuring entity to monitor the progress of the contract during its delivery period.
- (ii) During the delivery period, the CMC shall keep a watch on the progress of the contract and shall ensure that quantity of goods and service delivery is in proportion to the total delivery period given, if it is a severable contract, in which the delivery of the goods and service is to be obtained continuously or is batched. If the entire quantity of goods and service is to be delivered in the form of completed work or entire contract like fabrication work, the process of completion of work may be watched and inspections of the selected bidder's premises where the work is being completed may be inspected.
- (iii) If delay in delivery of goods and service is observed a performance notice would be given to the selected bidder to speed up the delivery.
- (iv) Any change in the constitution of the firm, etc. shall be notified forth with by the contractor in writing to the procuring entity and such change shall not relieve any former member of the firm, etc., from any liability under the contract.
- (v) No new partner/ partners shall be accepted in the firm by the selected bidder in respect of the contract unless he/ they agree to abide by all its terms, conditions and deposits with the procuring entity through a written agreement to this effect. The bidder's receipt for acknowledgement or that of any partners subsequently accepted as above shall bind all of them and will be sufficient discharge for any of the purpose of the contract.
- (vi) The selected bidder shall not assign or sub-let his contract or any substantial part thereof to any other agency without the permission of procuring entity.

11. GENERAL TERMS AND CONDITIONS OF TENDER & CONTRACT

Bidders should read these conditions carefully and comply strictly while sending their bids.

A. Definitions

For the purpose of clarity, the following words and expressions shall have the meanings hereby assigned to them:

- (i) "Contract" means the Agreement entered into between the Purchaser and the successful/ selected bidder, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
- (ii) "Contract Documents" means the documents listed in the Agreement, including any amendments thereto.
- (iii) "Contract Price" means the price payable to the successful/ selected bidder as specified in the Agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.
- (iv) "Day" means a calendar day.
- (v) "Delivery" means the transfer of the Goods from the successful/ selected bidder to the Purchaser in accordance with the terms and conditions set forth in the Contract.
- (vi) "Completion" means the fulfilment of the related services by the successful/ selected bidder in accordance with the terms and conditions set forth in the Contract.
- (vii) "Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the successful/ selected bidder is required to supply to the Purchaser under the Contract.
- (viii) "Purchaser/ Procuring Entity" means the entity purchasing the Goods and related services, as specified in the bidding document.
- (ix) "Related Services" means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance and other similar obligations of the successful/ selected bidder under the Contract.
- (x) "Subcontractor" means any natural person, private or government entity, or a combination of the above, including its legal successors or permitted assigns, to whom any part of the Goods to be supplied or execution of any part of the related services is subcontracted by the successful/ selected bidder.
- (xi) "Supplier/ Successful or Selected bidder" means the person, private or government entity, or a combination of the above, whose Bid to perform the Contract has been accepted by the Purchaser and is named as such in the Agreement, and includes the legal successors or permitted assigns of the successful/ selected bidder.
- (xii) "The Site," where applicable, means the designated project place(s) named in the bidding document.

Note: The bidder shall be deemed to have carefully examined the conditions, specifications, size, make and drawings, etc., of the goods to be supplied and related services to be rendered. If the bidder has any doubts as to the meaning of any portion of these conditions or of the specification, drawing, etc., he shall, before submitting the Bid and signing the contract refer the same to the procuring entity and get clarifications.

B. Contract Documents

Subject to the order of precedence set forth in the Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory.

C. Interpretation

- (i) If the context so requires it, singular means plural and vice versa.
- (ii) Entire Agreement: The Contract constitutes the entire agreement between the Purchaser and the Supplier/ Selected Bidder and supersedes all communications, negotiations and agreements (whether written or oral) of parties with respect thereto made prior to the date of Contract.
- (iii) Amendment: No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.
- (iv) Non-waiver: Subject to the condition (vi) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.
- (v) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.
- (vi) Severability: If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

D. Language

- (i) The Contract as well as all correspondence and documents relating to the Contract exchanged by the successful/ selected bidder and the Purchaser, shall be written in English language only. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the special conditions of the contract, in which case, for purposes of interpretation of the Contract, this translation shall govern.
- (ii) The successful/ selected bidder shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.

E. Joint Venture, Consortium or Association

Joint Venture, Consortium, or Association is not allowed for this bid.

F. Eligible Goods and related Services

- (i) For purposes of this Clause, the term "goods" includes commodities, raw material, machinery, equipment, and industrial plants; and "related services" includes services such as insurance, transportation, supply & installation.
- (ii) All articles/ goods being bid, other than those marked in the Bill of Material (BoM) should be the ones which are produced in volume and are used by a large number of users in India. All products quoted by the successful/ selected bidder must be associated with specific make and model number, item code and names and with printed literature describing configuration and functionality. Any deviation from the printed specifications should be clearly mentioned in the offer document by the bidder/ supplier. Also, the bidder is to quote/ propose only one make/ model against the respective item.
- (iii) The OEM/ Vendor of the quoted product must have its own registered spares depot in India having adequate inventory of the equipment being quoted for providing the necessary spares as per the requirements of this bidding document.

- (iv) The OEM/ Vendor of the quoted product should also have its direct representation in India in terms of registered office for at least past 3 years. The presence through any Distribution/ System Integration partner will not be accepted.
- (v) Bidder must quote products in accordance with above clause "Eligible goods and related services".

G. Service of Notice, Documents & Orders

- (i) A notice, document or order shall be deemed to be served on any individual/ a body corporate by:
 - a. delivering it to the person personally; or
 - b. leaving it at, or sending it by post to, the address of the place of residence or business of the person last known;
 - c. leaving it at, or sending it by post to, the registered office of the body corporate.
 - d. email to the person/ body corporate.
- (ii) When the procedure laid down in (i) above is followed, service shall be deemed to be effected by properly addressing, preparing and posting the document, notice or order, as the case may be.

H. Scope of Supply

- (i) Subject to the provisions in the bidding document and contract, the goods and related services to be supplied shall be as specified in the bidding document.
- (ii) Unless otherwise stipulated in the Contract, the scope of supply shall include all such items not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining delivery and completion of the goods and related services as if such items were expressly mentioned in the Contract.
- (iii) The bidder shall not quote and supply any Hardware/ Software/ other items that are likely to be declared as End of Sale within 1 year and End of Service/ Support within 3 Years of the last date of bid submission. OEMs are required to mention this in the MAF for all the quoted Hardware/ Software/ other items (if required). If any item is declared End of Sale after bid submission, the bidder may provide different model of the same or higher configuration without any extra cost with the express and prior approval of the Procuring Entity. If any of the Hardware/ Software/ other item is found to be declared as End of Sale/ Service/ Support, then the bidder shall replace all such Hardware/ Software/ other items with the latest ones having equivalent or higher specifications without any financial obligation to the purchaser.

I. Delivery & Installation

- (i) Subject to the conditions of the contract, the delivery of the goods and completion of the related services shall be in accordance with the delivery and completion schedule specified in the bidding document. The details of supply/ shipping and other documents to be furnished by the successful/ selected bidder are specified in the bidding document and/ or contract.
- (ii) The contract for the supply can be repudiated at any time by the Procuring Entity after giving an opportunity to the bidder of being heard and recording the reasons for repudiation, if the supplies are not made to his satisfaction.
- (iii) The Supplier/ Selected Bidder shall arrange to supply & install the ordered materials/ system to the locations specified in RFP as per Technical specifications within the specified delivery/ completion period mentioned in the supply order.

J. Supplier's/ Selected Bidder's Responsibilities

The Supplier/ Selected Bidder shall supply all the goods and related services included in the scope of supply in accordance with the provisions of bidding document and/ or contract.

K. Purchaser's Responsibilities

- (i) Whenever the supply of goods and related services requires that the Supplier/ Selected Bidder obtain permits, approvals, and other licenses from local public authorities, the Purchaser shall, if so required by the Supplier/ Selected Bidder, make its best effort to assist the Supplier/ Selected Bidder in complying with such requirements in a timely and expeditious manner.
- (ii) The Purchaser shall pay all costs involved in the performance of its responsibilities, in accordance with the general and special conditions of the contract.

L. Contract Price

- (i) The Contract Price shall be paid as specified in the contract subject to any additions and adjustments thereto, or deductions there from, as may be made pursuant to the Contract.
- (ii) Prices charged by the Supplier/ Selected Bidder for the Goods delivered and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier/ Selected Bidder in its bid, with the exception of any price adjustments authorized in the special conditions of the contract.

M. Recoveries from Supplier/ Selected Bidder

- (i) Recoveries of liquidated damages, short supply, breakage, rejected articles and in case of failure in satisfactory replacement by the supplier shall ordinarily be made from bills.
- (ii) Amount may also be withheld to the extent of short supply, breakages, rejected articles and in case of failure in satisfactory replacement by the supplier along with amount of penalty shall be recovered from his dues and security deposit available with the Procuring Entity.

N. Taxes & Duties

- (i) GST etc., if applicable, shall be deducted at source/ paid by Procuring entity as per prevailing rates.
- (ii) For goods supplied from within India, the successful/ selected bidder shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.
- (iii) If any tax exemptions, reductions, allowances or privileges may be available to the successful/ selected bidder in India, the Purchaser shall use its best efforts to enable the successful/ selected bidder to benefit from any such tax savings to the maximum allowable extent. However, it is clarified that for the purpose concessional Sales Tax, no "C-Form/ D-Form", or any other form by whatever name it may be called, shall be released by Purchaser to the selected bidder under any circumstances for any of activities under the SoW of this bidding document.

O. Confidential Information

- (i) The Purchaser and the Supplier/ Selected Bidder shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any drawings, documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether

such information has been furnished prior to, during or following completion or termination of the Contract.

- (ii) The Supplier/ Selected Bidder may furnish to its Subcontractor, if permitted, such documents, data, and other information it receives from the Purchaser to the extent required for the Sub-contractor to perform its work under the Contract, in which event the Supplier/ Selected Bidder shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier/ Selected Bidder.
- (iii) The Purchaser shall not use such documents, data, and other information received from the Supplier/ Selected Bidder for any purposes unrelated to the Contract. Similarly, the Supplier/ Selected Bidder shall not use such documents, data, and other information received from the Purchaser for any purpose other than the design, procurement, or other work and services required for the performance of the Contract.
- (iv) The obligation of a party under sub-clauses above, however, shall not apply to information that:
 - a. the Purchaser or Supplier/ Selected Bidder need to share with other institutions participating in the Contract;
 - b. now or hereafter enters the public domain through no fault of that party;
 - c. can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or
 - d. otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.
- (v) The above provisions shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the supply or any part thereof.
- (vi) The provisions of this clause shall survive completion or termination, for whatever reason, of the Contract.

P. Specifications and Standards

- (i) All articles supplied shall strictly conform to the specifications, trademark laid down in the bidding document and wherever articles have been required according to ISI/ ISO/ other applicable specifications/ certifications/ standards, those articles should conform strictly to those specifications/ certifications/ standards. The supply shall be of best quality and description. The decision of the competent authority/ purchase committee whether the articles supplied conform to the specifications shall be final and binding on the supplier/ selected bidder.
- (ii) Technical Specifications and Drawings
 - a. The Supplier/ Selected Bidder shall ensure that the goods and related services comply with the technical specifications and other provisions of the Contract.
 - b. The Supplier/ Selected Bidder shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.
 - c. The goods and related services supplied under this Contract shall conform to the standards mentioned in bidding document and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the country of origin of the Goods.
- (iii) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the bidding document. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with the general conditions of the contract.

Q. Transportation

The supplier/ selected bidder shall be responsible for transport by rail, road or air and delivery of the material in the good

condition to the consignee at destination. In the event of any loss, damage, breakage or leakage or any shortage, the bidder shall be liable to make good such loss and shortage found at the checking/ inspection of the material by the consignee. No extra cost on such account shall be admissible.

R. Delivery Period & Extent of Quantity – Repeat Orders

- (i) The time specified for delivery shall be deemed to be the essence of the contract and the successful bidder shall arrange supplies within the period on receipt of the firm order from the Procuring Entity.
- (ii) The selected bidder shall arrange supplies within the stipulated time period.
- (iii) If the orders are placed in excess of the quantities, the bidder shall be bound to meet the required supply. Repeat orders may also be placed on the rate and conditions given in the bidding document. If the bidder fails to do so, the Procuring Entity shall be free to arrange for the balance supply by limited tender or otherwise and the extra cost incurred shall be recoverable from the bidder.

S. Settlement of Disputes

In the case of a dispute or difference arising between procurement authority and the selected/ successful bidder relating to any matter arising out of or connected with this contract, such dispute or difference shall be decided as per the provision of Arbitration & Conciliation Act, 1996, the rules thereunder and any statutory modification or re-enactment's thereof, shall apply to the arbitration proceeding.

On all aspects where the above articles of understanding are silent, for special cases of deviation from these articles, decisions mutually agreed upon between the selected bidder and procurement authority shall be final. However, in case of any dispute relating to or arising out of contract, such dispute shall be resolved amicably by mutual consultation. If any dispute remains unresolved, it shall be referred to a committee, formed and headed by the Project Director of BECIL, for resolution. The committee so formed shall include representative of the successful bidder. The decision of the committee shall be binding on both the parties. All disputes are subject to Delhi jurisdiction only.

Legal Jurisdiction: All legal proceedings, if necessary arise to institute may by any of the parties (BECIL or Contractor) shall have to be lodged in courts situated in Delhi NCR and not elsewhere.

T. Authenticity of Equipment

- (i) The selected bidder shall certify that the supplied goods are brand new, genuine/ authentic, not refurbished, conform to the description and quality as specified in this bidding document and are free from defects in material, workmanship and service.
- (ii) If during the contract period, the said goods be discovered counterfeit/ unauthentic or not to conform to the description and quality aforesaid or have determined (and the decision of the Procuring Entity in that behalf will be final and conclusive), notwithstanding the fact that the purchaser may have inspected and/ or approved the said goods, the purchaser will be entitled to reject the said goods or such portion thereof as may be discovered not to conform to the said description and quality, on such rejection the goods will be at the selected bidder's risk and all the provisions relating to rejection of goods etc., shall apply. The selected bidder shall, if so called upon to do, replace the goods etc., or such portion thereof as is rejected by Procuring Entity, otherwise the selected bidder shall pay such damage as may arise by the reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the Procuring Entity in that behalf under this contract or otherwise.

- (iii) Goods accepted by the purchaser in terms of the contract shall in no way dilute purchaser's right to reject the same later, if found deficient in terms of the this clause of the contract.

U. Force Majeure

- (i) The supplier/ selected bidder shall not be liable for forfeiture of its PBG/PSD, LD, or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- (ii) For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the supplier/ selected bidder that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the supplier/ selected bidder. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- (iii) If a Force Majeure situation arises, the supplier/ selected bidder shall promptly notify the procurement authority in writing of such conditions and cause thereof within 30 days of occurrence of such event. Unless otherwise directed by procurement authority, the supplier/ selected bidder shall continue to perform its obligations under the contract as far as reasonably practical.
- (iv) If the performance in whole or part or any obligation under the contract is prevented or delayed by any reason of Force Majeure for a period exceeding 75 days, either party at its option may terminate the contract without any financial repercussion on either side.
- (v) In case a Force Majeure situation occurs with the procurement authority, the procurement authority may take the case with the supplier/ selected bidder on similar lines.

V. Termination

(i) Termination for Default

- I. The procuring entity may, without prejudice to any other remedy for breach of contract, by a written notice of default of at least 30 days sent to the supplier/ selected bidder, terminate the contract in whole or in part:
 - a. If the supplier/ selected bidder fails to deliver any or all quantities of the service within the time period specified in the contract, or any extension thereof granted by procurement authority; or
 - b. If the supplier/ selected bidder fails to perform any other obligation under the contract within the specified period of delivery of service or any extension granted thereof; or
 - c. If the supplier/ selected bidder, in the judgement of the Purchaser, is found to be engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the contract.
 - d. If the supplier/ selected bidder commits breach of any condition of the contract.
- II. If procurement authority terminates the contract in whole or in part, amount of PSD may be forfeited.

(ii) Termination for Insolvency

Procurement authority may at any time terminate the Contract by giving a written notice of at least 90 days to the supplier/ selected bidder, if the supplier/ selected bidder becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the supplier/ selected bidder, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to procurement authority.

(iii) Termination for Convenience

- I. Procurement authority, by a written notice of at least 90 days sent to the supplier/ selected bidder may terminate the Contract, in whole or in part, at any time for its convenience. The Notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the supplier/ selected bidder under the Contract is terminated, and the date upon which such termination becomes effective.
- II. Depending on merits of the case the supplier/ selected bidder may be appropriately compensated on mutually agreed terms for the loss incurred by the contract if any due to such termination.
- III. The Goods that are complete and ready for shipment within twenty-eight (28) days after the supplier's/ selected bidder's receipt of the Notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
 - a. To have any portion completed and delivered at the Contract terms and prices; and/or
 - b. To cancel the remainder and pay to the supplier/ selected bidder an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the supplier/ selected bidder.

12. SPECIAL TERMS AND CONDITIONS OF TENDER & CONTRACT

A. Assignment Duration

- (i) Complete assignment will be a turnkey project of 5 years.
- (ii) SI shall be responsible to maintain and manage the complete CCTV surveillance system for a period of five years from the date of successful commissioning of CCTV surveillance system.
- (iii) Rate Contract Agreement will be valid for a period of 5 years and subsequent year rate would be finalized after mutual agreement between SI and Procuring entity/its Customer.

B. Payment Terms

S/N	Activity	Payment (%)	Supporting Documents
a	Capex Cost as per approved BoQ of each site and Financial bid		
	Successful Delivery and Inspection of Hardware / Equipment at the Warehouse/DO/ICCC site	70% of the Sum total of BoQ	Submission of Invoice along with Approved Survey report and DC receipt.
	Successful Installation, Commissioning & Acceptance test	30% of the Sum total of BoQ	Submission of Invoice along with Approved I&C report signed by Warehouse In-charge.
b	Manpower and Internet as per Financial bid		
	Payment of per site manpower and Internet charges	25% at the end of 1st quarter and so on	Submission of certificate of successful Internet connection during the time period issued by Site Manager along with Attendance report of deployed manpower for the time period.
c	Opex Cost as per Financial bid		
	Payment of per site Operational & Maintenance support during the contract period	25% at the end of 1st quarter and so on	Submission of certificate of successful operation during the time period issued by Site Manager.

1. O&M Component:

- The successful bidder has to submit end user work completion certificate of all sites at the end of the installation and commissioning work and get this stamp-signed by the Warehouse In-charge.
- O&M period of the system shall commence from the date of submission of work completion certificate of each warehouse/DO/ICCC site. In case, connectivity for the respective warehouse(s) with ICCC is not completed then this will not be considered as non-commissioning locations for the finalized agency under this bid.

- The payments to the successful bidder will be made quarterly at the end of each quarter on acceptance of the invoice by the TENDERER or its designated agency.
 - The invoice would be processed for release of payment within 30 days after due verification of the invoice and other supporting documents by the TENDERER or its designated agency.
2. Payment shall be made in Indian Rupees. While making payment, necessary TDS/ income tax deductions will be made.
 3. The quantity mentioned in this bid document is indicative based on the initial survey carried out for the project estimation and evaluation purpose. However, after issue of work order, bidder have to carry out the survey of all godown/warehouse and submit the final BoQ along with Schematic diagram for each godown/warehouse indicating the location of equipment to be installed and get it approved from the respective office for actual delivery & implementation of the material.
 4. The bidder is required to deliver the material based on the surveyed BoQ approved by the respective authority of Tenderer instead of quantity mentioned in this bid within the total limit of BoQ mentioned in the Bid.
 5. Theft and Insurance of equipment's: It will come under the scope of TENDERER's Customer to get the Insurance of all the IT and non-IT equipment's supplied as part of this contract, in case of, theft, thunderstorm, vandalism, earthquake or any other unforeseen circumstances.

C. Service Level Agreement (SLA) and Penalty Clause

S/N	SLA Terms	Description
1	Network Backbone	'Network Backbone' refers to Internet Protocol (IP) based routing infrastructure at which, successful bidder has installed network devices for this project.
2	Latency	'Latency' refers to the average time required for round-trip packet transfers between Selected locations and the respective control center on the selected portions of the network Backbone.
3	Packet Loss	'Packet Loss' refers to the average percentage of IP packets transmitted between Selected Junctions/locations and the respective control center that are not successfully delivered.
4	Planned Network Outage	'Planned Network Outage' refers to unavailability of network services due to infrastructure maintenance activities such as configuration changes, up-gradation or changes to any supporting infrastructure. Details related to such planned outage shall be approved by the TENDERER or authorized authority and shall be notified to all the concerned stakeholder in advance (at least five working days). It is desirable that such outage shall be taken on Sundays or other Government holidays to the extent possible.
5	Unplanned Network Outage	'Unplanned Network Outage' refers to an instance in which no traffic can pass in or out through which devices are connects to the network Backbone

6	Time Line for Retrieval of video feeds from the Storage	a.) Retrieval of Event Related (Flagged/marked by the Tenderer or its user department) video feeds from the Local storage: Maximum Retrieval time 60 minutes during operational hours. b.) Retrieval of Non-Event (Anything which is not flagged/marked) related video feeds from Local Storage: Maximum retrieval time 60 minutes during operational hours. c.) Retrieval of Event related video feeds stored in removable/External disk/drives: Maximum retrieval time 60 Minutes during operational hours.																
7	Not keeping man-power	If successful bidder does not deploy the required specified quantity & quality of manpower as per RFP or a person deployed is not reporting to the duty, there would be a penalty per person per day as defined in below table and will be deducted from the quarterly payment.																
8	Incidence Resolution (Network)	<div>The network outage, security or performance related issues impacting the network availability/performance and leading to unavailability of the services. Resolution of incidence as per below priority Levels: L1 Level Severity: impacting 1 or more warehouse site L2 Level Severity: Impacting 10 or more warehouse site L3 Level Severity: Impacting 25 or more warehouse site</div> <table><tr><th>#</th><th>Severity</th><th>Initial Response Time</th><th>Issue Resolution Time</th></tr><tr><td>1</td><td>Level 1</td><td>60 Mins</td><td>7 Days</td></tr><tr><td>2</td><td>Level 2</td><td>120 Mins</td><td>10 Days</td></tr><tr><td>3</td><td>Level 3</td><td>120 Mins</td><td>15 Days</td></tr></table>	#	Severity	Initial Response Time	Issue Resolution Time	1	Level 1	60 Mins	7 Days	2	Level 2	120 Mins	10 Days	3	Level 3	120 Mins	15 Days
#	Severity	Initial Response Time	Issue Resolution Time															
1	Level 1	60 Mins	7 Days															
2	Level 2	120 Mins	10 Days															
3	Level 3	120 Mins	15 Days															

I. Penalty for delay

S/n	Activity	Timeline	Penalty
1	Delay in Delivery/ Supply of Hardware	<p>Site survey job: Within 2 month(s) of signing of agreement.</p> <p>Delivery/Supply of Hardware: Within 3 months from the date of approval of Site survey report by Tenderer.</p>	<ul style="list-style-type: none"> 0.50% of Contract value of delayed item per week or part thereof for delay in delivery
2	Delay in Installation / Implementation	<p>I&C job including training: Within 6 months from the date of approval of survey report by Tenderer.</p>	<ul style="list-style-type: none"> 0.75% of Contract value of delayed item per week or part thereof for delay in Implementation

Note: Maximum Penalty cap for penalty for delay is 10% of contract value for the ordered item.

If TENDERER fails to provide space and related clearances to carry out the job as per the agreement terms, as a result of which the installation of the equipment is delayed and the selected agency is not able

to adhere to the schedule for completing the Acceptance Tests. Delay solely on account on above will not be accounted while ascertaining actual delay and penalties thereof.

Note: For calculation of delay any dependencies from Tenderer will be excluded.

II. Operational penalties

Successful Bidder shall be paid Quarterly Payment (QP) for the technical resource provided by the successful bidder. The overall operational penalty is capped at 10% of QP amount and will be recovered against the quarterly payment invoice and Performance bank guarantee (if required) submitted by the successful bidder. Availability will be calculated on a quarterly basis.

S/N	SLA	Target	Penalties
1.	Time Line for Retrieval of video feeds from the Storage	As per SLA	<ul style="list-style-type: none"> Rs. 500 for every instance of late retrieval as per the SLA Note: Data Retrieval Request through a request Log mechanism
2.	*Uptime of all IT components installed at site	97.50% (at each individual component level)	For each component <ul style="list-style-type: none"> 97.50 - 97.00% - 0.25% of QP 96.99 - 96.00% - 0.5% of QP 95.99 - 95.00% - 1.0% of QP 94.99 - 94.00% - 1.5% of QP Less than 94.00% - 2% of the QP

* Uptime mentioned here is required to achieve for each site IT components.

III. Complaint resolution

The bidder shall be responsible for maintaining the desired performance and availability of the Network devices supplied under the scope of work of this RFP. The bidder should ensure the prompt service support during Contract period.

Site/Location	Penalty for delay in resolution of complaints beyond 'Issue Resolution Time'
All Sites	Rs. 500/- per complaint per day or part thereof

Resolution Time:

Defined as time taken to resolve a problem. The resolution time will be considered with respect to clock hours. If the successful bidder fails to attend the uptime and complaint resolution as specified above, the operational penalty will be imposed as specified above which will be recovered from quarterly payment or from PBG.

Exceptions:

Downtime planned for prescheduled changes / Maintenance activities and the same shall be intimated in advance to the Tenderer for prior approval and downtime in such cases shall not be more than 12 hours in quarter. Force Majeure conditions as mentioned in the RFP.

Note:

In case, there is delay attributable to granting access to the equipment to be restored on the part of TENDERER or on part of end user, such delays shall be reduced from the time taken for call completion after due consideration by the TENDERER.

IV. Penalty for non-availability of technical resource

If bidder does not deploy the required specified quantity and quality of manpower in the RFP or a person deployed is not reporting to the duty, there would be a penalty per person per day as defined below and will be deducted from the quarterly payment.

Manpower penalties during the contract		
S/N	Penalty Clause	Penalty
1	Successful bidder has to ensure the deployment of minimum number of personnel required as specified in the scope. The successful bidder shall ensure that alternate arrangements are made and leave for a staff is pre-sanctioned by TENDERER. If not, the penalties described in the next column shall apply	Rs.500/- per person per day of unsanctioned leave or non -reporting or non-deployment. Note: 6 days of sanctioned leave Per quarter will be applicable to each resource.

V. Penalty for delay in repair/replacement of faulty material

The Successful Bidder shall be responsible for repair/ replace all faulty material within the shortest possible time thus ensuring minimum downtime.

- The Successful Bidder shall be responsible for maintaining the desired performance and availability of the system/services. Successful Bidder should ensure the prompt service support for the entire project duration. If any complain is made or auto alarm/instances is generated by the system for non-availability of the items, then it has to resolved within 7 days from the time of complaint raised/auto alarm.
- If Successful Bidder fails to resolve the issue as specified above, the following penalty will be imposed on each delayed day, which will be recovered against the quarterly payment invoice submitted by the successful bidder:

Site/Location	Penalty for each delay in resolution of issues within stipulated time
All Sites	Rs. 100/- per site for every 24 hours of delay or part thereof

13. ANNEXURE A: COMPLIANCE WITH THE CODE OF INTEGRITY AND NO CONFLICT OF INTEREST

Any person participating in a procurement process shall:

- (i) Not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process;
- (ii) Not misrepresent or omit that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
- (iii) Not indulge in any collusion, Bid rigging or anti-competitive behavior to impair the transparency, fairness and progress of the procurement process;
- (iv) Not misuse any information shared between the procuring Entity and the Bidders with an intent to gain unfair advantage in the procurement process;
- (v) Not indulge in any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
- (vi) not obstruct any investigation or audit of a procurement process;
- (vii) disclose conflict of interest, if any and
- (viii) disclose any previous transgressions with any Entity in India or any other country during the last three years or any debarment by any other procuring entity.

Conflict of Interest:

The Bidder participating in a bidding process must not have a Conflict of interest.

A conflict of Interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations.

- (i) A Bidder may be considered to be in Conflict of Interest with one or more parties in a bidding process if, including but not limited to:
 - a) Have controlling partners/ shareholders in common; or
 - b) Receive or have received any direct or indirect subsidy from any of them; or
 - c) Have the same legal representative for purposes of the Bid; or
 - d) Have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Procuring Entity regarding the bidding process; or
 - e) The Bidder participates in more than one Bid in a bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which the Bidder is involved. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as a Bidder, in more than one Bid; or
 - f) The Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the Goods, Works or Services that are the subject of the Bid; or
 - g) Bidder or any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as engineer-in-charge/ consultant for the contract.

14. ANNEXURE B: DECLARATION BY THE BIDDER REGARDING QUALIFICATIONS

(Declaration by the Bidder)

In relation to my/our Bid submitted to for RFP of in response to their Notice Inviting Bids No..... Dated I/we hereby declare under, that:

- (i) I/we possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
- (ii) I/we have fulfilled my/our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the Bidding Document;
- (iii) I/we are not insolvent, in receivership, bankrupt or being wound up, not have my/our affairs administered by a court or a judicial officer, not have my/our business activities suspended and not the subject of legal proceedings for any of the foregoing reasons;
- (iv) I/we do not have, and our directors and officers not have, been convicted of any criminal offence related to my/our professional conduct or the making of false statement or misrepresentations as to my/ our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
- (v) I/ we do not have a conflict of interest as specified in the Act, Rules and the Bidding Document, which materially affects fair competition.
- (vi) I/ we has/ have not been barred or blacklisted by any state or central Govt department in India during last five years.

Date:

Signature:

Place:

Organization name:

Name:

Designation:

Address:

15. ANNEXURE C: Undertaking as per Office Memorandum No.: F.No.6/18/2019-PPD dated 23.07.2020 published by Ministry of Finance, Dept. of Expenditure, Public Procurement division

(On letterhead of 'OEM' and 'Bidder')

Ref: Bid Number: _____

I have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India. I certify that we as a bidder and quoted product from following OEMs are not from such a country or, if from such a country, these quoted products OEM has been registered with competent authority. I hereby certify that these quoted product & its OEM fulfills all requirements in this regard and is eligible to be considered for procurement for Bid number _____.

S. No.	Item Category	Quoted Make & Model

In case I'm supplying material from a country which shares a land border with India, I will provide evidence for valid registration by the competent authority, otherwise Tenderer/End user Dept. reserves the right to take legal action on us.

Date:

Signature:

Place:

Organization name:

Name:

Designation:

Address:

16. ANNEXURE E: ADDITIONAL CONDITIONS OF CONTRACT

I. Correction of arithmetical errors

Provided that a Financial Bid is substantially responsive, the Procuring Entity will correct arithmetical errors during evaluation of Financial Bids 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 Procuring Entity 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 (i) and (ii) above

If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be disqualified, and its EMD shall be forfeited.

II. Procuring Entity's Right to Vary Quantities

- a. If the Procuring Entity does not procure any subject matter of procurement or procures less than the quantity specified in the Bidding Document due to change in circumstances, the Bidder shall not be entitled for any claim or compensation except otherwise provided in the Conditions of Contract.
- b. Repeat orders for extra items or additional quantities may be placed on the rates and conditions given in the contract (if the original order was given after inviting open competitive Bids). Delivery or completion period may also be proportionately increased. The limits of repeat order shall be as under:
 - i. 50% of the quantity of the individual items and 50% of the value of original contract in case of works; and
 - ii. 50% of the value of goods or services of the original contract.

17. ANNEXURE F: BILL OF MATERIAL (BOM) - SUMMARY

Summary of items and the quantities is mentioned below. Detailed specifications and distribution of supply is as per the appendix mentioned against each item.

14.1 Estimated BOM for One Warehouse and its Control centre:

S. NO.	DESCRIPTION OF WORK	MINIMUM QTY. PER SITE	UOM
1.	SITC of IP based 4MP Bullet IP Camera for Outdoor requirement	3	Each
2.	SITC of IP based 4MP Vandal Dome IP Camera	1	Each
3.	Outdoor box 3x3 for Camera connectors & Cage for camera protection	3	Each
4.	SITC of 6 Mtr GI Pole	3	Each
5.	SITC of 4 Channel NVR	1	Each
6.	SITC of 6TB Surveillance HDD (For NVR up to 30 days recording)	2	Each
7.	SITC of STP 4 pair CAT -6 cable high quality, TIA/EIA and ISO Category 6	100	Mtr.
8.	SITC of 25mm PVC Conduit i/c all other required items	50	Mtr.
9.	SITC of Single mode Armoured Optical Fibre cable 6 Core	100	Mtr.
10.	SITC of 6 Port LIU with single mode duplex coupler and pigtails	3	Each
11.	SITC of 6 U outdoor / indoor Rack with PDU, Fan, Patch panel etc	2	Each
12.	SITC of 15U Rack for NVR/ Switch Storage with PDU, Fan, Patch panel etc for Warehouse Control room	1	Each
13.	SITC of HDPE pipe (32 mm)	65	Mtr.
14.	SITC of GI Pipe (50 mm)	25	Mtr.
15.	SITC of 8 Port Giga PoE Switch with 2 SFP uplink	3	Each
16.	SITC of Armoured Power Cable 2.5 Sq mm x 3 Core	100	Mtr.
17.	SITC of 2 KVA Inverter UPS System with 1 hour battery back-up	1	Each
18.	SITC of SFP module	4	Each
19.	SITC of Fiber Patch Cords	4	Each
20.	Earthing and Accessories (MCB, Cat-6 patch cords, Saddle, Flexible pipe etc)	1	Lot
21.	Digging and filling / repair	25	Mtr.
22.	Any other accessory including its I&C cost	1	Per Site
23.	Internet line of 20 Mbps bandwidth for Warehouse control centre	1	Per Year
	OPTIONAL (only if required by TENDERER at the time of survey):		
24.	SITC of 4 MP ANPR OUTDOOR FIXED BOX/ BULLET IP CAMERA for Outdoor requirement	1	Each

25.	SITC of ANPR Application Local Processing Unit (LPU)	1	Each
26.	SITC of 2 Mtr pole for ANPR camera	1	Each
27.	SITC of IP based 4MP PTZ IP Camera for Outdoor requirement	1	Each
28.	SITC of IP based Joystick keyboard for PTZ camera	1	Each
29.	SITC of Mast with accessories (power supply, mounting bracket etc.)	1	Each
30.	SITC of 8-Ch NVR, 2 SATA Slot	1	Each
31.	SITC of 16-Ch NVR, 4 SATA Slot	1	Each
32.	SITC of 32-Ch NVR, 4 SATA Slot	1	Each
33.	SITC of 3 Mtr GI Pole	1	Each
34.	SITC of 43" LED Display with wall mount and HDMI Cable	1	Each
35.	SITC of 16 Port Giga PoE Switch with 2 SFP uplink and 2 Giga electrical Ethernet uplink ports	1	Each
36.	SITC of 12 Port LIU with single mode duplex coupler and pigtails	1	Each
37.	SITC of 24 Port LIU with single mode duplex coupler and pigtails	1	Each
38.	SITC of 9 U outdoor / indoor Rack	1	Each
39.	SITC of 19U Rack for NVR/ Switch Storage with PDU, Fan, Patch panel etc for Warehouse Control room	1	Each
40.	SITC of 1 KVA Online UPS System with 1 hours battery back-up with Battery Rack mount	1	Each
41.	SITC of 2 KVA Online UPS System with 1 hours battery back-up with Battery Rack mount	1	Each
42.	Solar Hybrid UPS (50% solar and 50% Grid Electricity) with 10 x 300 watt solar panel, 8 x 100 AH Solar battery, 1 x 3 KVA Hybrid Solar PCU with Ethernet port	1	Set
43.	Solar Hybrid UPS (90% solar and 10% Grid Electricity) with 20 x 300 watt solar panel, 16 x 100 AH Solar battery, 2 x 3 KVA Hybrid Solar PCU with Ethernet port	1	Set

14.2 Estimated BOM for One District Office (DO) Command Control centre:

S. NO.	DESCRIPTION OF WORK	MINIMUM QTY. PER SITE	UOM
1.	Workstation with 21.5" display	1	Each
2.	SITC of 1 KVA Invertor UPS System with 1 hour battery back-up	1	Each
3.	Internet line of 50 Mbps bandwidth for District office Command control centre	1	Per Year

14.3 Estimated BOM for Integrated Command Control Centre at State HQ:

S. NO.	DESCRIPTION OF WORK	MINIMUM QTY. PER SITE	UOM
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1.	Central Command & Control Server for ICCC Application (N+1)	2	Each
2.	Antivirus for Central Command & Control Server	2	Each
3.	Client Workstation with 21.5" display	5	Each
4.	Antivirus for Workstation	5	Each
5.	Firewall (N+1)	2	Each
6.	Video wall 55" LED (5 x 2)	1	Set
7.	Video Wall Controller with minimum 10 Input and 10 Output	1	Each
8.	16 Port Giga switch with 2 SFP uplink and 2 Giga electrical Ethernet uplink ports	1	Each
9.	Command & Control Software for ICCC HQ for central with Health monitoring software, GIS	1	Set
10.	Video Management Software (VMS) for Management Viewing & Recording	364	Per Camera License
11.	10 KVA Online UPS with 1 hour battery back-up with battery Rack	1	Each
12.	Civil Work (500 Sq Ft) (Structure of building shall be provided by the client, finishing which includes wiring, ducting, false ceiling, false flooring, light fixtures etc. will be the responsibility of MSI)	500	Per Square Ft.
13.	1.5 Ton Split AC for Control Room	4	Each
14.	Furniture (1 Sofa + 4 Table & Chair)	1	Set
15.	Installation and commissioning cost of ICCC	1	Lot
16.	Internet Lease line of 150 MBPS bandwidth for ICCC	1	Per Year
17.	3 Helpdesk operators and 1 Centre In-charge at ICCC	1	Per Year
	OPTIONAL (only if required by TENDERER at the time of survey):		
18.	ANPR application software	1	Per Camera License

NOTE:

- The BOM of one Warehouse, one District office and ICCC as estimated by TENDERER is not exhaustive. The tentative minimum quantity of each line item in the above table(s) has been mentioned only for the purpose of financial evaluation of bids and quantity may vary at the time of actual survey and installation.
- Optional items of Warehouse and ICCC, if required, would be decided at the time of Survey stage by TENDERER. The rate is demanded as part of Financial quotation for rate contract purpose only.
- The quantity of active/passive components can vary as per site requirement.
- Modularity, Expandability and Upgrade ability in the overall system configuration should be open.
- The bidder shall have the sole responsibility to execute this project on turnkey basis.
- Bidder should be fully accountable for the performance of all components of the supplied equipment's.
- The installation, testing, Commissioning & other operational cost shall be including in the total rates offered by the bidder.

18. ANNEXURE G: TECHNICAL SPECIFICATIONS

Note: All the specifications as mentioned below are minimum only and higher specifications, if offered by any bidder, shall be considered without any price preference to the bidder.

The bidder is required to submit the technical compliance statement for each item on the respective OEM and Bidder letter-head.

S. No.	Technical Specifications	Description	Compliance (Yes/No)
A.1	4MP Bullet IP Camera Technical Specification:		
	Make		
	Model		
1	Type of Camera	Bullet	
2	Image Sensor	1/3" progressive Scan CMOS or better	
3	Signal System	PAL/NTSC	
4	Resolution	4MP	
5	Minimum Illumination	0.01Lux@ F1.6, AGC ON, 0 lux with IR or better	
6	Imaging	1/3s to 1/100000s, Auto Gain Control, White Balance- Auto, Back Light Compensation, HLC and ROI Support.	
7	Signal to Noise Ratio	50 dB or better	
8	Lens Type	3.6mm Fixed Lens or better	
9	Focus	Fixed lens	
10	Day & Night	Auto/Scheduled- IR range distance of 50 Mtrs	
11	Video Compression (Minimum)	H.265, H.264, MPEG	
12	Wide Dynamic Range	120db or more	
13	Digital Noise Reduction	DNR (3D) On/Off	
14	Streaming	Minimum Dual streaming	
15	Connectivity	LAN	
16	Image Setting	Rotate Mode, saturation, brightness, contrast, sharpness adjustable through client software or web browser	
17	Profile Management	User configuration import, export	
18	Security	User Authentication, Water Marking	
19	Onboard Storage	Camera should support built in Class-10 Micro SD/SDHC/SDXC Card slot upto 128 GB.	
20	Recording Management	Format SD, overwrite, storage management, video to NAS device, remote archive access via FTP login	
	Network Compatibility		

21	Network Protocol	HTTP, TCP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS DDNS, PPPoE, IPv4/v6, QoS, UPnP, NTP, RTMP, Multicast, HTTPS; SFTP, 802.1x, ICMP, IGMP, CGI	
22	User Access	5 User Simultaneously or more	
23	System Capability	ONVIF (Profile S & G)	
24	VMS	Camera shall support VMS	
25	Ethernet	1RJ 45 10/100 Ethernet Port	
	Power Input	Standard DC Jack	
27	Power Requirement	12VDC +- 10%, PoE (IEEE802.3 af)	
28	Enclosure	IP67 weather proof, Metallic body	
29	Standards	CE, FCC, RoHS, UL, BIS Certified	
S. No.	Technical Specifications	Description	Compliance (Yes/No)
A.2	4MP Vandal Dome IP Camera Technical Specification:		
	Make		
	Model		
1	Type of Camera	Vandal Dome	
2	Image Sensor	1/3" progressive Scan CMOS or better	
3	Signal System	PAL/NTSC	
4	Resolution	4MP	
5	Minimum Illumination	0.01Lux@ F1.6, AGC ON, 0 lux with IR or better	
6	Imaging	1/3s to 1/100000s, Auto Gain Control, White Balance- Auto, Back Light Compensation, , HLC and ROI Support.	
7	Signal to Noise Ratio	50 dB or more	
8	Lens Type	Fixed Lens	
9	Focus	Fixed lens	
10	Day & Night	Auto/Scheduled with IR distance of 30 Mtrs	
11	Video Compression (Minimum)	H.265, H.264	
12	Wide Dynamic Range	WDR (120db or more)	
13	Digital Noise Reduction	DNR (3D) On/Off	
14	Streaming	Minimum Dual streaming	
15	Connectivity	LAN	
16	Image Setting	Rotate Mode, saturation, brightness, contrast, sharpness adjustable through client software or web browser	
17	Profile Management	User configuration import, export	
18	Security	User Authentication, Water Marking	

19	Onboard Storage	Camera should support built in Class-10 Micro SD/SDHC/SDXC Card slot upto 128 GB.	
20	Network Compatibility		
21	Network Protocol	HTTP, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS DDNS, PPPoE, IPv4/v6, QoS, UPnP, NTP, RTMP, Multicast, HTTPS; SFTP, 802.1x, ICMP, IGMP, CGI	
22	User Access	5 User Simultaneously or more	
23	System Capability	ONVIF (Profile S & G)	
24	VMS	Camera shall support open source VMS	
25	Ethernet	1 RJ 45 10/100 Ethernet port	
26	Power Input	Standard DC Jack	
27	Power Requirement	12VDC +- 10%, PoE (IEEE802.3 af)	
28	Enclosure	IP67 weather proof, IK10 or better	
29	Standards	CE, FCC, RoHS, UL, BIS Certified	
S. No.	Technical Specifications	Description	Compliance (Yes/No)
A.4 / E.6	MAST/ Pole		
1	6 meter long GI Camera Pole Mount with fitting arrangement with Cable inlet/outlet suitable for Gooseneck/ Pole mount for PTZ & Fixed cameras, Cable Inlet/Outlet Box, Bottom Plate welded, duly painted Customized, including digging of pits, erection making foundation, painting, finishing etc.. as required at site		
S. No.	Technical Specifications	Description	Compliance (Yes/No)
A.5	4 Channel Network Video Recorder (NVR)		
	Make		
	Model		
1	Network Video Recorder shall provide a recording, live view, storage and playback of 4 IP camera or more and must be ONVIF with minimum support of 160 Mbps incoming Bandwidth or better		
2	NVR should support H.265+, H.265 and H.264 support		
3	It should have 1/4/8/9/16 channel display mode as per the NVR Channels		
4	It should support Camera upto 8MP		
5	Must support Resolution: 3840*2160, 1920*1080, 1280*1024, 1280*720, 1024*768		
6	Must support recording resolution upto 8MP or better		
7	Must support Continuous, Alarm, Motion, Instant, Panic Recording Mode		
8	Must support two way audio		
9	When alarm recording is enabled and an event occurs, you can click the alarm icon on monitoring page to view the alert details. The snapshot function is supported on monitoring and playback page		

10	The Network Video Recorder (NVR) shall be configured to send email whenever a system message is created or an alarm event occurs. The email server shall be a valid SMTP server. Each recipient email address shall be configured to receive any combination of critical, warning, or informational messages or alarm notifications. When an alarm occurs, the email message includes the NVR name, time of alarm and a list of camera that is configured to record upon alarm		
11	It should support Network Support: HTTP, TCP/IP, SMTP, DHCP, DNS, DDNS, FTP, NTP, UPnP, Multi IP Setting. Convert multiple recording files to one avi/MP4 file.		
12	Intelligent auto power on when power resumes after power outage.		
13	Storage	It should support 4 Ch NVR : 2 SATA Slots supporting upto 12TB Storage capacity.	
14	Connectivity Interface :	It should support 1 Nos. x 10/100/1000 Base-T Lan Port	
15	Backup Interface :	It should have 2Nosx USB port for backup.	
16	Power Supply :	Should support 12V DC/ AC 100~240V, 50/60 Hz	
17	Operating Condition :	-10°C to 55°C, humidity 80% (max) (non-condensing) or better	
18	Video Output	1 HDMI, 1 VGA	
19	Option for SMS/ Email Alerts to minimum 5 designated mobile number for power failure, HDD failure, vandalism, tampering, network disconnection and panic		
20	Web, Mobile app for alerts and viewing		
21	Protocols	HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, IP Search, ONVIF 2.4, CGI Conformant	
22	Standards :	CE, FCC, RoHS, UL Certified	
S.No.	Technical Specifications	Description	Compliance (Yes/No)
A.6	Surveillance Hard Disk		
	Make		
	Model		
1	Hard Disk	Surveillance Hard Disk 6TB SATA (Serial ATA) for recording	
S. No.	Technical Specifications	Description	Compliance (Yes/No)
A.8	25mm PVC Conduit		
	Make		
	Model		
1	PVC conduit pipe 25mm medium class ISI marked		

S. No.	Technical Specifications	Description	Compliance (Yes/No)
A.9	Single mode Armored Optical Fiber cable		
	Make		
	Model		
1	OFC 6 core single mode Armored cable in the existing pipe/duct/channel, as per specifications etc as required		
S. No.	Technical Specifications	Description	Compliance (Yes/No)
A.10, E.13, E.14	6/ 12/ 24 Port LIU		
	Make		
	Model		
1	Fully Loaded LIU 6 / 12 / 24 Ports Rack Mount - Loaded (SC) SM with PIGTAIL and Coupler. Rack mount fiber enclosure, power coat, steel design, includes cable routing spools and splice trays, cable routing clamps with complete accessories etc as required.		
S.No.	Technical Specifications	Description	Compliance (Yes/No)
A.11, A.12, E.15, E.16	Wall/ Floor Mount Rack 6U / 9U / 15U / 19U		
	Make		
	Model		
1	6U/ 9U/ 15U/ 19U Floor Mount/ Wall Mount Rack as per standard sizes, Fixed Structure with .8MM CRCA Sheet, CKD if required- Shape Vertical Mounting Rail 1.6 MM with 'U'Marking , Minimum two Cooling Fan Provision, fitted with cooling fan Minimum 2 cable entry/exit provision at bottom with rubber protection, Front 5MM Toughened Glass with lock, wall mounting kit, Powder coated Color- RAL- 7035 , loaded with required Cable tray and PDU and misc. accessories as per site requirement, The rack OEM should be an ISO 9001:2008 and 14001 or higher level certified Company. Certificate : CE &RoHS		
S. No.	Technical Specifications	Description	Compliance (Yes/No)
A.13	HDPE Pipe		
	Make		
	Model		
1	32mm Dia HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench/surface of wall, complete as required.		
S. No.	Technical Specifications	Description	Compliance (Yes/No)

A.14	GI Pipe		
	Make		
	Model		
1	50mm Dia GI Pipe pole B class 6 Mtr. length duly painted complete with accessories required for installation of CCTV equipment's etc (Vendor should Supply all the mounting accessories), in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required as per specifications.		
S. No.	Technical Specifications	Description	Compliance (Yes/No)
A.15, E.12	POE Switch		
	Make		
	Model		
a)	16 Port Giga PoE Switch : 16 Port x 10/100/1000 Base-T Ethernet PoE ports Switch, Minimum 2 No. x 10/100/1000 Base-T Ethernet uplink ports and 2 No. x Giga SFP Ports with CCTV Mode in switch for maximum distance. Standards: IEEE802.3 , IEEE802.3u , IEEE802.3ab , IEEE802.3z , IEEE802.3X , IEEE802.3af/at, supports max. 250W PoE output, Plug&play, convenient to use, certification :- CE,FCC, ROHS		
b)	08 Port Giga PoE Switch : 08 Port x 10/100/1000 Base-T Ethernet PoE ports Switch, Minimum 2 No. x Giga SFP uplink ports with CCTV Mode in switch for maximum distance. Standards: IEEE802.3 , IEEE802.3u , IEEE802.3ab , IEEE802.3z , IEEE802.3X , IEEE802.3af/at, supports max. 120W PoE output, Plug&play, convenient to use, certification :- CE,FCC, ROHS		
S. No.	Technical Specifications	Description	Compliance (Yes/No)
A.16	3 Core Armoured Power Cable		
	Make		
	Model		
1	3 Core Power Cable, Conductor size: 2.5 sq mm, multi strand with standard annealed electrolytic copper conductor suitable for single phase 230V AC Supply/ DC Supply		
S. No.	Technical Specifications	Description	Compliance (Yes/No)
A.17, B.2	Inverter UPS with 01 Hr Backup		
	Make		
	Model		
1	Power	2KVA / 1 KVA	
2	Details	Inverter UPS System with 1 hour battery back-up	
Sr. No	Description	Specifications	Compliance Yes/ No

A.18	SFP Module		
	Make		
	Model		
1	1 Gigabit Single-Mode SFP module as per Switch requirement		
Sr. No	Description	Specifications	Compliance Yes/ No
A.19	Fiber Patch Cords		
	Make		
	Model		
1	Cat-6 UTP Ethernet Patch Cable 2 Meter cable with both side connectors including making connection, testing etc. as required		
Sr. No	Technical Specifications	Specifications	Compliance Yes/ No
B.1, C.3	Workstation with 21.5" display		
	Make		
	Model		
1	Processor	Intel Core i5 10500 or latest or equivalent	
2	Operating System	Windows 10 Pro, 64bit or better	
3	RAM	Minimum 8 GB DDR3 ECC Memory @ 1600 Mhz. Slots should be free for future upgrade. Minimum 4 DIMM slots, supporting up to 32GB ECC	
4	Storage	1 TB SATA-3 Hard drive @7200 rpm with Flash Cache of 256 GB SSD	
5	Graphic card	Minimum Graphics card with 2GB video memory (non- shared)	
Sr. No	Technical Specifications	Specifications	Compliance Yes/ No
C.1	Central Command & Control Server		
	Make		
	Model		
1	Processor	Latest series/ generation of 64-bit x86 processor(s) with 8 or higher Cores. Processor speed should be minimum 2.0 GHz. Minimum 2 processors per each physical server.	
2	Operating System	Windows Server 2016/2019 Operating System	
3	RAM	Minimum 64 GB Memory per physical server scalable up to 1.0 TB	
4	Internal Storage	2 x 600 GB SAS (10k rpm) hot swap	
5	Network Interface	2 X 10GbE LAN ports for providing Ethernet connectivity	

6	Power supply	Dual Redundant Power Supply	
7	Form Factor	Rack mountable	
Sr. No	Technical Specifications	Specifications	Compliance Yes/ No
C.2, C.4	Antivirus for Workstation and Antivirus for Central Command & Control Server		
	Make		
	Model		
1	The proposed solution should scan files and identifies infections based on behavioural characteristic of viruses (Trojan/ Worm, Joke, Hoax, Virus, other).		
2	Ability to scan through all file types and various compression formats. Ability to scan for HTML, VBScript Viruses, malicious applets and ActiveX controls.		
3	The proposed solution should be able to record critical endpoint data even while devices are offline or outside your corporate network to quickly detect infected systems.		
4	The proposed solution should provide real time active protection.		
5	The proposed solution should auto-quarantine spyware or adware without end-user interaction.		
6	The solution should provide the capabilities to log administrative activities such as changes to policies, agent override activities, agent termination and agent uninstall key generation in the management console.		
7	Must update itself over internet for virus definitions, program updates etc. (periodically as well as in push-updates in case of outbreaks).		
8	Shall provide Real-time product Performance Monitor and Built-in Debug and Diagnostic tools, and context- sensitive help.		
9	The solution must provide protection to multiple remote clients.		
10	Shall provide for virus notification options for Virus Outbreak Alert and other configurable Conditional Notification.		
Sr. No	Technical Specifications	Specifications	Compliance Yes/ No
C.5	Firewall with failover (N+1)		
	Make		
	Model		
1	Should be mountable on Rack or compact desktop		
2	Interface	Interface and Modules: As per Bidders design overall design with 50% expandability	
3	Throughput	Firewall Throughput: Minimum 7 Gbps	
4	Connection	Concurrent connections: up to 50,000	
5	VPN	Simultaneous VPN tunnels: 2000	
6	Routing	Routing Protocols: Static Routes, RIPv1, RIPv2	
7	Threat Protection throughput	1 Gbps or more	
8	Web	Web Filtering	

9	Availability	High Availability supported (Active-Active/Active-Standby or equivalent)	
10	Protocol	Protocols : TCP/IP, RTP, IPSec, DES/3DES/AES, FTP,HTTP, HTTPS,SNMP, SMTP, DHCP, DNS, Support forIP v4 & Ipv6	
11	QoS	QoS features like traffic prioritisation, differentiated services, committed access rate. Should support for QoS features for defining the QoS policies.	
12	Management	Management: Console/SSHv2/Browser based configuration or equivalent.	
Sr. No	Technical Specifications	Specifications	Compliance Yes/ No
C.6	Video wall		
	Make		
	Model		
1	Technology	HD LED Display (5x2)	
2	Screen Size	55 inch	
3	Basel Size	Less than 1mm	
4	Resolution	Full HD (1080p) 16:9 Widescreen	
5	Contrast	1400:1	
6	Brightness of Cube	500 nits	
7	Viewing Angle	178 degree/178 degree (H/V)	
8	Input	HDMI and other inputs as per Video wall solution	
Sr. No	Technical Specifications	Specifications	Compliance Yes/ No
C.8	16 Port Giga Switch with 2 SFP uplink and 2 Giga electrical Ethernet uplink ports		
	Make		
	Model		
1	16 Port Giga Switch: 16 Port x 10/100/1000 Base-T Ethernet ports Switch, Minimum 2 No. x 10/100/1000 Base-T Ethernet uplink ports and 2 No. x Giga SFP Ports with CCTV Mode in switch for maximum distance. Standards: IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3X, IEEE802.3af/at, supports max. 250W output, Plug&play, convenient to use, certification:- CE,FCC, ROHS		
Sr. No	Description	Specifications	Compliance Yes/ No
C.9	Command & Control Software for ICCC HQ for central with Health monitoring software, GIS		
1	Software Architecture	Should have a Client/Server infrastructure.	

2	Supported Device Type	Should support NVR, Network camera, Network Video server, Decoder, DVR etc.	
3	Max. Register Device	No Limit. Scalable as per future requirements.	
4	Camera Alert Data	Should capture Camera Tampering alert, Power failure alert, Camera non-functioning alert.	
5	Camera Health Data	Should capture Camera Online/Offline Status, Network/Power Failure Status, Camera recording Status	
6	Reporting	Should have extensive reporting available in multiple graphical and tabular formats which can be exported to PDF, HTML, Excel.	
7	Location Grouping	Zone / Area / Street Grouping of camera devices and reporting available for all or per location group	
8	Maintenance Log	The ability to log a fault or maintenance visit, with warnings presented to the operators. Reports to be created to show faulty items of equipment, time taken to fix etc. Automatic emails are generated and distributed to predefined lists.	
9	Notification Matrix	Inbuilt SMS, Email & Mobile App Notification module to send camera and NVR health related alerts to concerned people (minimum 5 persons) based on alert like power failure, HDD failure, vandalism, tempering, network disconnection and panic type and alert location.	
10	Priority Levels	Priority Levels will be set to equipment notifications, alarm inputs and user levels. The level range must be customizable.	
Sr. No	Description	Specifications	Compliance Yes/ No
C.10	Video Management Software		
	Make		
	Model		
I	Number of devices to be connected : 256 devices (Video Channels)		
II	Minimum 10 client system on same server		
iii	All the updates/firmwares should be provided free of cost by bidder		
iv	VMS should support hot standby for master server		
v	VMS should support N+M Redundancy		
vi	It should support importing domain user and assigning role to the user		
vii	It should support edge storage and central storage		

viii	It should restore system database from server or local file and automatically backup system database (daily, weekly, monthly)	
ix	It should support easy performance upgrade via distributed hardware extension	
x	It should have easy multi-site management through cascading	
xi	It should support Google online map, Google offline map, raster map and upto 8 levels of submaps	
xii	It should be flexible, scalable, reliable and powerful central management system	
xiii	It should support client-server architecture	
xiv	It should provide basic functions such as user permission management, device management, alarm management, central storage, video wall and map, access control features such as personnel management, attendance, and access control and AI functions such as face recognition, ANPR, people counting and object detection. It also integrates add-ons such as business intelligence and traffic.	
xv	It should be able to add devices via auto search, IP, Domain, IP segment, auto register (for 3G, 4G, DHCP device).	
xvi	It should be able to connect third-party devices via standard ONVIF protocol	
	Alarm Priority shall be configured to one of three levels by default:	
1	It should manage the user's permissions by role (device permission, control permissions).	
2	Shall have the Alarm Scheme: All day template, weekday template, weekend template and custom template.	
	Roles and Users :	
1	Shall have the ability to create user profile groups defined as Roles	
2	User can be assigned with the roles to obtain the corresponding permissions	
3	User shall be restricted by the MAC and expiry information.	
4	It should support importing domain user and assigning roles to the user.	
	System and Maintenance :	
1	Automatically back up system database (daily, week, month)	
2	Manually back up system database	
3	Restore system database from server or local file.	
	Control Client :	
a	The Control Client should be Windows-based software for security operators to access NVRs, and network cameras using authorized client login credentials. It shall provide multiple operating functionalities, including real-time live view, PTZ control, video playback and download/exporting, alarm management, VCA search, log query, and health monitoring module.	
b	Shall have the ability to support login to the Control Client through HTTP or HTTPS	
c	Shall have the ability to turn off and on VCA video overlay for both live and recorded video	
d	Shall have the ability to view 2 auxiliary screens on 1 Control Client and shall have	

	the following modules and functions:		
1)	Live View :		
a	a. Ability to view up to 32 or more channels		
b	b. Ability to auto switch to sub stream of Network Camera, if more than 4 camera tiles are called up		
c	c. Ability to display device tree; show or hide offline device.		
d	d. Should support user-defined screen splitting, up to 32 or more split screens		
e	e. The following functions are available on the tile toolbar for easy access to operator:		
i.	Capture: ability to save snapshots		
ii.	Enable manual recording of displayed Network Camera		
2)	Playback :		
a	Ability to play back 1 to 16 cameras simultaneously		
b	Clipping: ability to quickly export video clips		
c	Digital zoom		
d	Video export		
e	VCA search		
f	Supports clicking and playing directly after downloading with player		
g	Supports customizing download time		
3)	VCA Search		
a	Support Motion Detection		
b	Support Line Crossing Detection		
c	Support Intrusion Detection		
4)	Log: search and view logs for the following :		
a	System, admin, client log.		
b	Search and export log.		
c	Record remote logs		
Sr.No.	Technical Specifications	Description	Compliance (Yes/No)
C.11	Online UPS with 01 Hr Backup		
	Make		
	Model		
1	Power	10KVA	
2	Technology	Rectifier & Inverter both with IGBT based Microprocessor Processing Digital Design, Double Conversion True On-Line UPS	
3	Input System	Single Phase & Earth Ground	
4	Rated Voltage	220/230/240VAC	
5	Voltage Range	170-270 VAC	
6	Frequency	47 to 53 Hz	

7	Power Factor	>0.99 @ full Load	
8	Voltage Range of Bypass	230 VAC \pm 10% (Adjustable)	
	Output		
9	Output System	Single Phase & Earth Ground	
10	Rated Voltage	230 VAC	
11	Power Factor	0.8	
12	Voltage Regulation	1%	
13	Normal Mode Freq.	45 ~ 55 (Adjustable)	
14	Battery Mode Freq.	50 \pm 0.1 Hz	
15	Inverter Overload Capacity	110 % for 5 Minute 150 % 30 second	
16	Transfer Time	Oms (Normal Mode to Battery Mode) Oms (Normal Mode to Bypass Mode)	
17	Efficiency	90% on full & 97% on Eco Mode	
18	THD	<6% (Non-Linear Load), < 3% (Linear Load)	
	Battery		
19	Crest Factor	03:01	
20	Charge current	2A for Internal Batteries, 6 A Max. (Adjustable)	
21	Backup time	Depending on the capacity of batteries	
22	Battery Type	Inbuilt Li-Ion Battery (External Batteries are not acceptable)	
23	Battery Charge Time	Charger to 90% Battery Capacity in 2 Hours (Standard)	
	Protection		
24	Inherent Protection	Over Loading, low battery, over temperature, short circuits, over and under input voltage.	
	Communicate & Interface		
25	Interface Port(s)	RS232 + Dry Contact (DB9) + USB (Optional)	
26	Optional Cards	SNMP Adaptor	
27	LCD Display	Information for Load / Battery / Input / Output and Operating Mode	
28	Audible Alarm	Actively Audible alarm for Utility Failed / Battery Low/ Overload Condition	
29	EPO	Yes	
	Environmental		
30	Noise Level	<50dB @ 1 Meter	
31	Operations Temp.	0 – 40°C	
32	Storage Temp.	-20°C ~ 55°C	
33	Relative Humidity	0 ~ 95% Humidity, Non – Condensing	
34	Operating Elevation	3,000 Meters	
35	Physical	-	

36	Net Weight (kg) w/o Battery	18 / 22/ 25	
37	Optional	External Transient Voltage Surge Suppressor (TVSS)	
Sr. No	Technical Specifications	Specifications	Compliance Yes/ No
E.2	Local Processing Unit (LPU)		
	Make		
	Model		
1	Processor	Industrial Grade Intel Core i7 9700or latest or equivalent	
2	Operating System	Windows 10 Pro, 64bit or better	
3	RAM	16 GB	
4	Storage	1 TB Enterprise HDD	
5	NIC	1 Gbps NIC Card	
S. No.	Technical Specifications	Description	Compliance (Yes/No)
E.4	4MP IP PTZ Camera Technical Specification:		
	Make		
	Model		
1	4MP IP IR PTZ Camera	Motorized PAN TILT ZOOM with IR	
2	Image Sensor	1/3" progressive Scan CMOS or better	
3	Signal System	PAL/NTSC	
4	Resolution	4 MP	
5	Minimum Illumination	0.01Lux@ F1.6, AGC ON, 0 lux with IR or better	
6	Imaging	1/3s to 1/100000s, Auto Gain Control, White Balance, Back Light Compensation, Multi zone Privacy Masking, HLC.	
7	Signal to Noise Ratio	50 dB or more	
8	Auto Iris	DC Drive	
9	Lens Type	Focal Length: varifocal 4.3/4.5 ~ 129/135mm or better, Focus Adjustment: Automatic, manual	
10	Zoom	30x Optical zoom or better and 16x Digital zoom or better with angle of view H: 62.9° ~ 2.3° and having a close 100mm~ 1000mm	
11	Day & Night	True Day & Night High Performance Mechanical IR cut filter with auto switch, IR Source- Inbuilt Smart IR LED's with effective distance. The camera should have IR LED's and cover distance up to 150 mtr. or above	
12	Auto Tracking	The camera should be equipped with auto tracking function using simultaneously all of the	

		panning, tilting and zooming should be available. When a motion is detected in a registered monitoring area, the camera should track the motion (object) and capture it.	
13	Event Notification	Through Relays, E-Mails or FTP	
14	Video Compression (Minimum)	H.265, H.264	
15	Wide Dynamic Range	WDR (120db or more)	
16	Digital Noise Reduction	DNR (2D+3D) On/Off	
17	Streaming	Triple Streaming, configurable	
18	Connectivity	LAN	
19	Image Setting	Rotate Mode, ROI ,EIS, saturation, brightness, contrast, sharpness adjustable through client software or web browser	
20	Profile Management	User configuration import, export	
21	Security	User Authentication, Water Marking-	
22	Onboard Storage	Camera should support built in Class-10 Micro SD/SDHC/SDXC Card slot upto 128 GB.	
23	Recording Management	Format SD, overwrite, storage management, video to NAS device, remote archive access via FTP login	
	Network Compatibility		
24	Network Protocol	TCP/IP/ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, Upnp, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour, IPv4	
25	User Access	5 User Simultaneously or more	
26	System Capability	ONVIF	
27	VMS	Camera shall support open source VMS impacted. The VMS software and cameras may or may not be from the same OEM but the VMS OEM shall ensure seamless integration of both and smooth functioning of the system.	
28	Ethernet	1RJ 45 10/100 Ethernet port	
29	Power Input	Standard DC Jack	
30	Enclosure	IP66 weather proof, Metallic body	
31	Audio Support	Audio Interface : The camera should have 1/1 Audio In/Out to connect External Mic and Speaker Audio Compression : G.711a/ G.711u/ PCM	
32	Alarm In/Out	Alarm In/out- 2/1 Ch In/Out	
33	Standards	CE, FCC, RoHS, UL Certified	

S. No.	Technical Specifications	Description	Compliance (Yes/No)
E.5	IP based Joystick keyboard for PTZ Camera		
	Make		
	Model		
1.	VMS Compatibility	The Joystick must be compatible with all distributed network video management components.	
2.	Function Keys	Easy access to 4 application commands for an optimized workflow.	
3.	Display	Provides a visual reminder of function key assignments on your computer screen	
4.	System flexibility	The Joystick must be part of an integrated system and shall be configured so any number can be added to the system. When combined with user interfaces (UIs), network storage managers (NSM's), encoders, IP cameras, and video consoles, the Joystick forms an integral part of a complete network-based video control system	
5.	Input Connector type (power Supply)	Universal Inter changeable	
6.	Joystick Interface	USB 2.0	
7.	Cable	USB	
8.	Joystick Module	Fully proportional PTZ, variable speed; with zoom, iris and focus controls	
9.	Operating temperature	0° to 40°C	
10.	Keyboard	*VMS shall also provide functionality when connected to a keyboard *The keyboard must be compatible with all distributed network video management systems. *The keyboard must support USB 2.0 protocol, and the USB must operate at full-speed.	
S. No.	Technical Specifications	Description	Compliance (Yes/No)
E.7, E.8, E.9	8 / 16 / 32 Channel Network Video Recorder (NVR)		
	Make		
	Model		

1	Network Video Recorder shall provide a recording, live view, storage and playback of 8 / 16 / 32 IP camera or more and must be ONVIF with minimum support of 160 Mbps incoming Bandwidth or better		
2	NVR should support H.265+, H.265 and H.264 support		
3	It should have 1/4/8/9/16 channel display mode as per the NVR Channels		
4	It should support Camera upto 8MP		
5	Must support Resolution: 3840*2160, 1920*1080, 1280*1024,1280*720, 1024*768		
6	Must support recording resolution upto 8MP or better		
7	Must support Continuous, Alarm, Motion, Instant, Panic Recording Mode		
8	Must support two way audio		
9	When alarm recording is enabled and an event occurs, you can click the alarm icon on monitoring page to view the alert details. The snapshot function is supported on monitoring and playback page		
10	The Network Video Recorder (NVR) shall be configured to send email whenever a system message is created or an alarm event occurs. The email server shall be a valid SMTP server. Each recipient email address shall be configured to receive any combination of critical, warning, or informational messages or alarm notifications. When an alarm occurs, the email message includes the NVR name, time of alarm and a list of camera that is configured to record upon alarm		
11	It should support Network Support: HTTP, TCP/IP, SMTP, DHCP, DNS, DDNS, FTP, NTP, UPnP, Multi IP Setting. Convert multiple recording files to one avi/MP4 file.		
12	Intelligent auto power on when power resumes after power outage.		
13	Storage	It should support 8 Ch NVR : 2 SATA Slots supporting upto 12TB Storage capacity. 16 Ch NVR : 4 SATA Slots 32 Ch NVR : 4 SATA Slots	
14	Connectivity Interface :	It should support 1 Nos. x 10/100/1000 Base-T Lan Port	
15	Backup Interface :	It should have 2Nosx USB port for backup.	
16	Alarm In/ Out Ports	It should support 8 /16 /32 Ch NVR : 4/2 Alarm In/ Out	
17	Power Supply :	Should support 12V DC/ AC 100~240V, 50/60 Hz	
18	Operating Condition :	-10°C to 55°C, humidity 80% (max) (non-condensing) or better	
19	Video Output	1 HDMI, 1 VGA	
20	Option for SMS/ Email Alerts to minimum 5 designated mobile number for power failure, HDD failure, vandalism, tampering, network disconnection and panic		
21	Web, Mobile app for alerts and viewing		

22	Protocols	HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, IP Search, ONVIF 2.4, CGI Conformant	
23	Standards :	CE, FCC, RoHS, UL Certified	
S.No.	Technical Specifications	Description	Compliance (Yes/No)
E.11	43 inch LED Display		
	Make		
	Model		
	LED Display (LED Monitor)		
1	Display Size (Inches)	43"	
2	Native Resolution	1920 x1080 (FULL HD)	
3	Brightness	350 nit	
4	Contrast Ratio	5000:01:00	
5	LED Type	D/EDGE LED	
6	Viewing Angle (HX V)	178 x 178 Degree	
7	Input ports	HDMI 2	
		VGA-1	
		LAN Port-1	
		USB 2.0 x 1	
		RS232-1	
8	Certifications	UL, FCC, BIS	
9	Operating Humidity	10% ~80%	
10	Operating Temperature	5C ~40 C	
11	Installation	Wall Mount bracket	
12	Speakers	10WX 1	
13	Guaranteed Operating Hour	16 X7	
14	Power Supply	100-240 VAC, 50/60 HZs	
15	Power Consumption	120 W or less	
16	Accessory	Power Cord, Remote Control	

19. ANNEXURE H: PRE-BID QUERIES FORMAT

Name of the Company/Firm: _____

Bidding Document Fee Receipt No. _____ Dated _____ for Rs. _____/-

Name of Person(s) Representing the Company/ Firm:

Name of Person	Designation	Email ID (s)	Tel. Nos and Fax Nos.

Company/Firm Contacts:

Contact Person(s)	Address for Correspondence	Email ID (s)	Tel. Nos and Fax Nos.

Query / Clarification Sought:

S. No.	RFP Page No.	RFP Rule No.	Rule Details	Query/ Suggestion/ Clarification

Note:

- Queries must be strictly submitted only in the prescribed format (XLS/ XLSX/ WORD).
- Queries not submitted in the prescribed format will not be considered/ responded at all by the procuring entity.
- Attach the colored scanned copy of the receipt towards the submission of the bidding/ tender document fee.

20. ANNEXURE I: BIDDER'S AUTHORIZATION CERTIFICATE

{to be filled by the bidder}

To,
GM (IT & Mfg.),
BECIL, C-56A/17,
Sector-62, Noida-201307

I/ We {Name/ Designation} hereby declare/ certify that {Name/ Designation} is hereby authorized to sign relevant documents on behalf of the company/ firm in dealing with NIB reference No. _____ dated _____. He/ She is also authorized to attend meetings & submit technical & commercial information/ clarifications as may be required by you in the course of processing the Bid. For the purpose of validation, his/ her verified signatures are as under.

Thanking you,

Name of the Bidder: -
Authorised Signatory: -
Seal of the Organization: -
Date:
Place:

Verified Signature:

21. ANNEXURE J: CERTIFICATE OF CONFORMITY/ NO DEVIATION

{to be filled by the bidder}

To,
GM (IT & Mfg.),
BECIL, C-56A/17,
Sector-62, Noida-201307

CERTIFICATE

This is to certify that, the specifications of Hardware & Software which I/ We have mentioned in the Technical bid, and which I/ We shall supply if I/ We am/ are awarded with the work, are in conformity with the minimum technical specifications of the bidding document and that there are no deviations of any kind from the requirement specifications.

Also, I/ we have thoroughly read the bidding document and by signing this certificate, we hereby submit our token of unconditional acceptance to all the terms & conditions of the bidding document without any deviations and assumptions.

I/ We also certify that the price I/ we have quoted is inclusive of all the cost factors involved in the end-to-end implementation and execution of the project, to meet the desired Standards set out in the bidding Document.

Thanking you,

Name of the Bidder: -

Authorised Signatory: -

Seal of the Organization: -

Date:

Place:

22. ANNEXURE K: DECLARATION BY BIDDER

{to signed by selected bidder}

I/ We declare that I am/we are System Integrator (SI) for which I/ We have quoted.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/ our security may be forfeited in full and the bid, if any, to the extent accepted may be cancelled.

Name of the Bidder: -

Authorised Signatory: -

Seal of the Organization: -

Date:

Place:

23. ANNEXURE L: MANUFACTURER'S AUTHORIZATION FORM (MAF)

{to be filled by the OEMs of Camera, NVR, UPS, Switch, Workstation, Server,
Video wall display, VMS, Firewall, Antivirus}

(Indicative Format)

To,
GM (IT & Mfg.),
BECIL, C-56A/17,
Sector-62, Noida-201307

Subject: Issue of the Manufacturer's Authorisation Form (MAF)

Reference: NIB/ RFP Ref. No. _____ dated _____

Sir,

We {name and address of the OEM} who are established and reputed original equipment manufacturers (OEMs) having factories at {addresses of manufacturing location} do hereby authorize {M/s _____} who is our {Distributor/ Channel Partner/ Retailer/ Others <please specify>} to bid, negotiate and conclude the contract with you against the aforementioned reference for the following Hardware/ Software/ other items manufactured by us:

{OEM will mention the details of all the proposed product(s) with their make/ model.}

We undertake to provide OEM Warranty for the offered Hardware/ Software/ other items, as mentioned above.

We hereby confirm that the offered Hardware/ Software/ other items are as per specification mentioned in the RFP.

We hereby confirm that the offered Hardware/ Software/ other items is not likely to be declared as End-of-Sale within next 2 year from the date of bid submission.

We hereby confirm that the offered Hardware/ Software/ other items is not likely to be declared as End-of-Service/ Support within next 5 years from the date of bid submission.

Yours faithfully,

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

(Authorized Signatory)

Name,

Designation &

Contact No.:

Address: _____

Seal:

24. ANNEXURE M: UNDERTAKING ON AUTHENTICITY OF COMPUTER EQUIPMENTS

{To be filled by the bidder (On Rs. 100/- Non-judicial stamp paper)}

To,
GM (IT & Mfg.),
BECIL, C-56A/17,
Sector-62, Noida-201307

Reference: NIB No. : _____ Dated: _____

This has reference to the items being supplied/quoted to you vide bid ref. no. _____ dated _____.

We hereby undertake that all the components/parts/assembly/ software used in the equipment shall be genuine, original and new components /parts/assembly/software from respective OEMs of the products and that no refurbished/duplicate/ second hand components/ parts/ assembly/ software are being used or shall be used. In respect of licensed operating system, we undertake that the same shall be supplied along with the authorized license certificate with our name/logo. Also, that it shall be sourced from the authorized source for use in India.

In case, we are found not complying with above at the time of delivery or during installation, for the equipment already billed, we agree to take back the equipment already supplied at our cost and return any amount paid to us by you in this regard and that you will have the right to forfeit our Bid Security/ PSD for this bid or debar/ black list us or take suitable action against us.

Authorized Signatory

Name:

Designation:

25. ANNEXURE N: COMPONENTS OFFERED – BOM

{to be filled by the bidder}

Please fill the following BOM for all the offered components.

S. No.	Product Details (Only one make and model)	Detailed Technical Specification Reference**	OEM Details (Name, Address, E-Mail, Contact Nos.)
1.		{Item No. xx}	
2.		{Item No. xx}	
3.		{Item No. xx}	

** Please attach Technical specifications compliance sheet (only on OEM's letter-head) and provide reference number in this column. (Deviations, if any, should be appropriately mentioned & highlighted in the compliance/ deviation column)

Date:

Name of Bidder:

Authorized Signatory Name:

Signature:

Designation:

26. ANNEXURE O: FINANCIAL BID COVER LETTER

{to be submitted by the bidder on his Letter head}

To,
GM (IT & Mfg.),
BECIL, C-56A/17,
Sector-62, Noida-201307

Reference: NIB No. : _____ Dated: _____

Dear Sir,

We, the undersigned bidder, Having read & examined in detail, the Bidding Document, the receipt of which is hereby duly acknowledged, I/ we, the undersigned, offer to supply/ work as mentioned in the Scope of the work, Bill of Material, Technical specifications, Service Level Standards & in conformity with the said bidding document for the same.

- (i) I / We undertake that the prices are in conformity with the specifications prescribed.
- (ii) The quote/price are inclusive of all cost, excluding GST, likely to be incurred for executing this work. The prices are inclusive of all type of govt. taxes/duties.
- (iii) I / We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the schedule of Requirements.
- (iv) I/ We hereby declare that in case the contract is awarded to us, we shall submit the Performance Security Deposit (PSD) as prescribed in the bidding document.
- (v) I / We agree to abide by this bid for bid validity period and it shall remain binding upon us and may be accepted at any time before the expiry of that period.
- (vi) Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.
- (vii) I/ We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.
- (viii) We understand that you are not bound to accept the lowest or any bid you may receive.
- (ix) We agree to all the terms & conditions as mentioned in the bidding document and submit that we have not submitted any deviations in this regard.

Date:

Name of Bidder:

Authorized Signatory Name:

Signature:

Designation:

27. ANNEXURE P: FINANCIAL BID FORMAT

{to be submitted by the bidder on his Letter head}

RATE CONTRACT							
S. NO.	DESCRIPTION OF WORK	NO. OF SITES	QTY. PER SITE	UOM	UNIT PRICE (₹)	TAX PERCENT	TOTAL (No. of Sites x Qty. Per site x Unit Price)
A. BOM FOR WAREHOUSE AND ITS CONTROL CENTRE							
1.	SITC of IP based 4MP Bullet IP Camera for Outdoor requirement	91	3	Each		_____ %	
2.	SITC of IP based 4MP Vandal Dome IP Camera	91	1	Each		_____ %	
3.	Outdoor box 3x3 for Camera connectors & Cage for camera protection	91	3	Each		_____ %	
4.	SITC of 6 Mtr GI Pole	91	3	Each		_____ %	
5.	SITC of 4 Channel NVR	91	1	Each		_____ %	
6.	SITC of 6TB Surveillance HDD (For NVR up to 30 days recording)	91	2	Each		_____ %	
7.	SITC of STP 4 pair CAT -6 cable high quality, TIA/EIA and ISO Category 6	91	100	Mtr.		_____ %	
8.	SITC of 25mm PVC Conduit i/c all other required items	91	50	Mtr.		_____ %	
9.	SITC of Single mode Armoured Optical Fibre cable 6 Core	91	100	Mtr.		_____ %	
10.	SITC of 6 Port LIU with single mode duplex coupler and pigtails	91	3	Each		_____ %	
11.	SITC of 6 U outdoor / indoor Rack with PDU, Fan, Patch panel etc	91	2	Each		_____ %	
12.	SITC of 15U Rack for NVR/ Switch Storage with PDU, Fan, Patch panel etc for Warehouse Control room	91	1	Each		_____ %	
13.	SITC of HDPE pipe (32 mm)	91	65	Mtr.		_____ %	
14.	SITC of GI Pipe (50 mm)	91	25	Mtr.		_____ %	
15.	SITC of 8 Port Giga PoE Switch with 2 SFP uplink	91	3	Each		_____ %	
16.	SITC of Armoured Power Cable 2.5 Sq mm x 3 Core	91	100	Mtr.		_____ %	
17.	SITC of 2 KVA Invertor UPS System with 1 hour battery back-up	91	1	Each		_____ %	
18.	SITC of SFP module	91	4	Each		_____ %	
19.	SITC of Fiber Patch Cords	91	4	Each		_____ %	
20.	Earthing and Accessories (MCB, Cat-6 patch cords, Saddle, Flexible pipe etc)	91	1	Lot		_____ %	
21.	Digging and filling / repair	91	25	Mtr.		_____ %	

22.	Any other accessory including its I&C cost	91	1	Per Site		_____ %	
TOTAL (A)							
S. NO.	DESCRIPTION OF WORK	NO. OF SITES	QTY. PER SITE	UOM	UNIT PRICE (₹)	TAX PERCENT	TOTAL (No. of Sites x Qty. Per site x Unit Price)
B. BOM FOR DISTRICT OFFICE COMMAND CONTROL CENTRE							
1.	Workstation with 21.5" display	17	1	Each		_____ %	
2.	SITC of 1 KVA Invertor UPS System with 1 hour battery back-up	17	1	Each		_____ %	
TOTAL (B)							
S. NO.	DESCRIPTION OF WORK	NO. OF SITES	QTY. PER SITE	UOM	UNIT PRICE (₹)	TAX PERCENT	TOTAL (No. of Sites x Qty. Per site x Unit Price)
C. BOM FOR INTEGRATED COMMAND CONTROL CENTRE							
1.	Central Command & Control Server for ICCC Application (N+1)	1	2	Each		_____ %	
2.	AntiVirus for Central Command & Control Server	1	2	Each		_____ %	
3.	Client Workstation with 21.5" display	1	5	Each		_____ %	
4.	AntiVirus for Workstation	1	5	Each		_____ %	
5.	Firewall (N+1)	1	2	Each		_____ %	
6.	Video wall 55" LED (5 x 2)	1	1	Set		_____ %	
7.	Video Wall Controller with minimum 10 Input and 10 Output	1	1	Each		_____ %	
8.	16 Port Giga switch with 2 SFP uplink and 2 Giga electrical Ethernet uplink ports	1	1	Each		_____ %	
9.	Command & Control Software for ICCC HQ for central with Health monitoring software, GIS	1	1	Set		_____ %	
10.	Video Management Software (VMS) for Management Viewing & Recording	1	364	Per Camera License		_____ %	
11.	10 KVA Online UPS with 1 hour battery back-up with battery Rack	1	1	Each		_____ %	
12.	Civil Work (500 Sq Ft) (Structure of building shall be provided by the client, finishing which includes wiring, ducting, false ceiling, false flooring, light fixtures etc. will be the responsibility of MSI)	1	500	Per Square Ft.		_____ %	

13.	1.5 Ton Split AC for Control Room	1	4	Each		_____ %	
14.	Furniture (1 Sofa + 4 Table & Chair)	1	1	Set		_____ %	
15.	Installation & commissioning cost of ICC	1	1	Lot		_____ %	
TOTAL (C)							
GRAND TOTAL (A + B + C)							

S. NO.	DESCRIPTION OF WORK	NO. OF SITES	QTY. PER SITE	UOM	UNIT PRICE (₹)	TAX PERCENT	TOTAL (No. of Sites x Qty. Per site x Unit Price)
D. MANPOWER AND INTERNET							
1.	Internet line of 20 Mbps bandwidth for Warehouse control centre						
a)	1 st Year	91	1	Per Year		_____ %	
b)	2 nd Year	91	1	Per Year		_____ %	
c)	3 rd Year	91	1	Per Year		_____ %	
d)	4 th Year	91	1	Per Year		_____ %	
e)	5 th Year	91	1	Per Year		_____ %	
2.	Internet line of 50 Mbps bandwidth for District office Command control centre						
a)	1 st Year	17	1	Per Year		_____ %	
b)	2 nd Year	17	1	Per Year		_____ %	
c)	3 rd Year	17	1	Per Year		_____ %	
d)	4 th Year	17	1	Per Year		_____ %	
e)	5 th Year	17	1	Per Year		_____ %	
3.	Internet Lease line of 150 Mbps bandwidth for ICC						
a)	1 st Year	1	1	Per Year		_____ %	
b)	2 nd Year	1	1	Per Year		_____ %	
c)	3 rd Year	1	1	Per Year		_____ %	
d)	4 th Year	1	1	Per		_____ %	

				Year			
e)	5 th Year	1	1	Per Year		_____ %	
4.	3 Helpdesk operators and 1 Centre In-charge at ICCC						
a)	1 st Year	1	1	Per Year		_____ %	
b)	2 nd Year	1	1	Per Year		_____ %	
c)	3 rd Year	1	1	Per Year		_____ %	
d)	4 th Year	1	1	Per Year		_____ %	
e)	5 th Year	1	1	Per Year		_____ %	

S. NO.	DESCRIPTION OF WORK	NO. OF SITES	QTY. PER SITE	UOM	UNIT PRICE (₹)	TAX PERCENT	TOTAL (No. of Sites x Qty. Per site x Unit Price)
E. OPTIONAL ITEMS FOR WAREHOUSE							
1.	SITC of 4 MP ANPR OUTDOOR FIXED BOX/ BULLET IP CAMERA for Outdoor requirement	1	1	Each		_____ %	
2.	SITC of ANPR Application Local Processing Unit (LPU)	1	1	Each		_____ %	
3.	SITC of 2 Mtr pole for ANPR camera	1	1	Each		_____ %	
4.	SITC of IP based 4MP PTZ IP Camera for Outdoor requirement	1	1	Each		_____ %	
5.	SITC of IP based Joystick keyboard for PTZ camera	1	1	Each		_____ %	
6.	SITC of Mast with accessories (power supply, mounting bracket etc.)	1	1	Each		_____ %	
7.	SITC of 8-Ch NVR, 2 SATA Slot	1	1	Each		_____ %	
8.	SITC of 16-Ch NVR, 4 SATA Slot	1	1	Each		_____ %	
9.	SITC of 32-Ch NVR, 4 SATA Slot	1	1	Each		_____ %	
10.	SITC of 3 Mtr GI Pole	1	1	Each		_____ %	
11.	SITC of 43" LED Display with wall mount and HDMI Cable	1	1	Each		_____ %	
12.	SITC of 16 Port Giga PoE Switch with 2 SFP uplink and 2 Giga electrical Ethernet uplink ports	1	1	Each		_____ %	
13.	SITC of 12 Port LIU with single mode duplex coupler and pigtails	1	1	Each		_____ %	
14.	SITC of 24 Port LIU with single mode duplex coupler and pigtails	1	1	Each		_____ %	
15.	SITC of 9 U outdoor / indoor Rack	1	1	Each		_____ %	

16.	SITC of 19U Rack for NVR/ Switch Storage with PDU, Fan, Patch panel etc for Warehouse Control room	1	1	Each		_____ %	
17.	SITC of 1 KVA Online UPS System with 1 hours battery back-up with Battery Rack mount	1	1	Each		_____ %	
18.	SITC of 2 KVA Online UPS System with 1 hours battery back-up with Battery Rack mount	1	1	Each		_____ %	
19.	Solar Hybrid UPS (50% solar and 50% Grid Electricity) with 10 x 300 watt solar panel, 8 x 100 AH Solar battery, 1 x 3 KVA Hybrid Solar PCU with Ethernet port	1	1	Set		_____ %	
20.	Solar Hybrid UPS (90% solar and 10% Grid Electricity) with 20 x 300 watt solar panel, 16 x 100 AH Solar battery, 2 x 3 KVA Hybrid Solar PCU with Ethernet port	1	1	Set		_____ %	

S. NO.	DESCRIPTION OF WORK	NO. OF SITES	QTY. PER SITE	UOM	UNIT PRICE (₹)	TAX PERCENT	TOTAL (No. of Sites x Qty. Per site x Unit Price)
F. OPTIONAL ITEMS FOR ICCC							
1.	ANPR application software	1	1	Per Camera License		_____ %	

S. NO.	DESCRIPTION OF WORK	PRICE PERCENT	TAX PERCENT	UOM
G. O&M SUPPORT CHARGES OF WAREHOUSE, DISTRICT OFFICE AND ICCC				
1.	3rd Year charges after expiry of 2 year warranty period	_____ %	_____ %	of Total Billing value of Each Site
2.	4th Year charges after expiry of 2 year warranty period	_____ %	_____ %	of Total Billing value of Each Site
3.	5th Year charges after expiry of 2 year warranty period	_____ %	_____ %	of Total Billing value of Each Site

NOTE:

- Complete assignment will be a turnkey project of 5 years.
- Price should be quoted in INR currency only.
- Unit price shall be quoted as Exclusive of GST, however, Tax percentage applicable on each Line item should be mentioned under its respective column.
- Grand Total (A+B+C) will be considered to calculate the Price Score of Bidder as per clause 8 of RFP.
- GST will be applicable as per Central / State Govt. rules / regulation.

- This Rate contract would remain valid for initial period of 5 years and subsequent year rate would be finalized after mutual discussion between successful bidder and BECIL/its customer.

Yours faithfully,

Name of the Organization: _____

Seal of the Organization: _____

Authorized Signatory Name & Sign: _____

Date and Place: _____

28. ANNEXURE Q: PROFORMA FOR PERFORMANCE BANK GUARANTEE OR SECURITY DEPOSIT

To,
GM (IT & Mfg.),
BECIL, C-56A/17,
Sector-62, Noida-201307

I. Against Price Agreement concluded by the advice acceptance of the Tender No. Dated /.... /20....
Covering supply of..... (Hereinafter called the said contract), entered between the GM, BECIL

And

..... (Hereinafter called the "Agency"), this is to certify that at the request of the Agency, we
..... (Bank) are holding in trust in favour of the GM, BECIL the amount of Rs. only
(write the sum in words.....) to indemnify and keep indemnified the GM, BECIL against any loss or damage that
may be caused to or suffered by the GM, BECIL by reason of any breach by the Agency or any of the terms and conditions
of the said contract and/or the performance thereof. We agree that the decision of the GM, BECIL whether any breach of
any of the terms and conditions of the said contract and / or in the performance thereof has been committed by the
Agency and the amount of loss or damage that has been caused or suffered by the GM, BECIL shall be final and binding on
us and the amount of the said loss or damage shall be paid by us forthwith on demand and without demur to the GM,
BECIL.

II. We,..... (Bank) further agree that the guarantee herein contained shall remain in full force
and effect during the period that would be taken for satisfactory performance and fulfilment in all respects of the said
contract by the Agency, i.e., till (For a period of one year from date of Price agreement) hereinafter
called the "said date" and that if any claim accrues or arises against us (Bank) by virtue of this
guarantee before the said date, the same shall be enforceable against us (Bank) not with standing
the fact that the same is enforced within six months after the said date, provided that notice of any such claim has been
given to us..... (Bank) by the GM, BECIL before the said date. Payment under this letter of
guarantee shall be made promptly upon receipt of notice of that effect from GM, BECIL.

III. It is fully understood that this guarantee is effective from the date of the said contract and that
we..... (Bank) undertake not to revoke this guarantee during its
currency without the consent in writing of the GM, BECIL.

IV. We undertake to pay to the Government any money so demanded notwithstanding any dispute raised by the
Agency in any suit or proceedings pending before any court of tribunal thereto, our liability under this present being
absolute and unequivocal.

V. We(Bank) further agree that the GM, BECIL shall have the fullest liberty, without
affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said contract or to
extend time of performance by the Agency from time to time or to postpone for any time or from time to time any of the
powers exercisable by the GM, BECIL against the said contract and to forbear or enforce any of the terms and conditions

relating to the said contract and we (Bank) shall not be released from our liability under this guarantee by reason of any such variation or extension being granted to the said Agency or for any forbearance and / or omission on the part of the GM, BECIL or any indulgence by the GM, BECIL to the said Agency or by any other matter or thin what-so-ever, which under the law relating us from our liability in the constitution of the bank or Agency.

Date:

Signature

Place:

Printed Name

(Designation)

(Bank's Common Seal)

29. ANNEXURE R: CONTRACT AGREEMENT FORMAT

CONTRACT AGREEMENT FOR SELECTION OF MASTER SYSTEM INTEGRATOR (MSI) FOR SUPPLY, IMPLEMENTATION, OPERATION & MAINTENANCE OF SURVEILLANCE SYSTEM UNDER SAFE WAREHOUSE PROJECT OF HARYANA

This agreement is made on the between (here after referred to as 'Department') and M/s (herein after referred to as the 'Contractor') for Supply, Implementation, Operation & Maintenance of Surveillance System under Safe Warehouse Project of Haryana.

The terms and conditions of Tender Notice and minutes of pre bid meeting shall also form part of this contract.

Scope of Work, Responsibilities and Terms & Conditions would be as per RFP No. _____.

Signed today on the Day of at

For CONTRACTOR

For DEPARTMENT

Designation:

Designation:

Contractor Address:

Address:

Witness:

Witness: