

**NOTICE INVITING EXPRESSION OF INTEREST****EOI NO. RCIL/SR/ERS/2024-25/EOI/9 DTD. 06-01-2025****Expression of Interest (EOI) For**

**“Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of Cochin Port Authority, including 2 years” guarantee and thereafter 5 years comprehensive AMC”**

**Issued by:****RailTel Corporation of India Ltd***(A Nava-Ratna PSU under Ministry of Railways)**Kerala Territory Southern Region,**1<sup>st</sup> Floor Eastern Entry Tower Ernakulam Junction**Railway Station Ernakulam, 682016*

Disclaimer

RailTel Corporation of India Ltd. (herein after called the RailTel) has prepared this Expression of Interest (EOI) document solely to assist prospective bidders in making their decision of whether bid or not to bid.

While the RailTel has taken due care in the preparation of information contained herein and believes it to be accurate, neither the RailTel or any of its Authorities or Agencies nor any of their respective officers, employees, agents or advisors give any warranty or make any representations, express or implied as to the completeness or accuracy of the information contained in this document or any information which may be provided in association with it. This information is not intended to be exhaustive and interested parties are required to make their own inquiries and do site visits that it may require in order to submit the EOI. The information is provided on the basis that it is non-binding on RailTel, any of its authorities or agencies or any of their respective officers, employees, agents or advisors. The RailTel reserves the right not to proceed with the bidding/EOI process at any stage without assigning any reasons thereof, or to alter the timetable reflected in this document or to change the process or procedure to be applied. It also reserves the right to decline to discuss the EOI further with any party submitting an EOI. No reimbursement of cost of any type will be paid to persons or entities submitting the EOI

**EOI NOTICE**

RailTel Corporation of India Limited,  
Kerala Territory Office, 1<sup>st</sup> Floor,  
Eastern Entry Tower,  
Ernakulam South Railway Station,  
Ernakulam-682016

**EOI NO. RCIL/SR/ERS/2024-25/EOI/9 DTD. 06-01-2025**

RailTel Corporation of India Ltd., (here after referred to as “RailTel”) invites EOIs for Selection of Partner Request for Proposal (RFP) for the Selection of Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of Cochin Port Authority, including 2 years" guarantee and thereafter 5 years comprehensive AMC (here after referred to as Cochin Port), from RailTel Empanelled Business Associates/Processing empanelment for exclusive TEAMING ARRANGEMENT for the following “Request for Proposal (RFP) for the Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of Cochin Port Authority, including 2 years" guarantee and thereafter 5 years comprehensive AMC “

**KEY INFORMATION**

Closing date for Submission of e-Bids	08-01-2025 at 15:30 Hours
Date of opening of E-Bids	08-01-2025 at 16:00 Hours
EMD at the time of submission of bid	Rs. 3,55,230/-
Bid Validity Period	150 days
e-Eoi portal for Submission of Bids	<a href="https://railtel.eNivida.com">https://railtel.eNivida.com</a>
Cost of Eoi Document	Nil
Place of Opening of Eoi	Online RailTel Corporation of India Limited, Kerala Territory Office, 1 <sup>st</sup> Floor, Eastern Entry Tower, Ernakulam South Railway Station, Ernakulam-682016

**Note:**

RailTel reserves the right to change the above dates at its discretion. Bids received after due date and time will be summarily rejected.

Eoi Notice and link for Eoi Document are available on RailTel's website and e-Eoi portal <https://railtel.eNivida.com> for download. For online bid submission the bidder will have to necessarily download an official online copy of the Eoi documents from e-Nivida Portal. All future Information viz. corrigendum/addendum/ amendments etc. for this Eoi shall be posted on the RailTel's website and e-Eoi Portal only. Printed copy of Eoi document will not be sold from RailTel office. Bid will be submitted online on e-Nivida Portal only.

Sd/- (JGM/TERRITORY MANAGER)

**Earnest Money Deposit (EMD)**

- 1) **EMD payable:** To be submitted by the selected BA shall be submitted in the form of Bank Guarantee/Online Bank Transfer/Fixed Deposit as Total EMD, including the EMD submitted.
- 2) EMD Rs **3,55,230/-** is to be submitted at the time of submission of EOI in the form of RTGS/Bank Guarantee/Fixed Deposit.
- 3) **Validity of the EMD:** The EMD shall be valid till the finalization of end customer RFP/Tender i.e. award of order and till submission of Performance Guarantee of requisite value with due regards to the validity of the offer.

**Bids without EMD will be summarily rejected.**

The EMD should be in the favour of RailTel Corporation of India Limited payable at Secunderabad through online bank transfer. The Partner needs to share the online payment transfer details like UTR No. date and Bank along with the proposal.

RailTel Bank Details for Submission of EMD / PBG :

Union Bank of India, **Account no. 327301010373007**, **IFSC Code: UBIN0805050**.

Demand Draft shall be submitted in favor of RailTel Corporation of India Limited payable at Secunderabad.

EMD will be forfeited in case of non-submission of remaining EMD and PBG in time. EMD of unsuccessful Bidders will be refunded by RailTel on finalizing the EOI.

Eligible Business Associates are required to direct all communications related to this Invitation for EOI document, through the following Nominated Point of Contact persons:

**Contact Details for this EOI:**

Level: 1 Contact: Shri. Suvin Varghese, DM/Marketing/Ernakulam

Email: [suvinvarghese@railtelindia.com](mailto:suvinvarghese@railtelindia.com) Contact: +91-8075285582

Level: 2 Contact: Shri. Anish Rehman, AGM/Marketing/Ernakulam

Email: [arehman@railtelindia.com](mailto:arehman@railtelindia.com) Contact: +91-9704659404

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**Note to Bidders:**

1. The response to EOI is invited from **Eligible Empanelled Partners/ Processing empanelment partners of RailTel only.**
2. All the document must be submitted with proper indexing and page nos.
3. This is an exclusive pre-RFP partnership arrangement with empanelled business associate of RailTel for participating in the end customer RFP. Selected partner's authorized signatory has to give an undertaking that they will not submit directly or indirectly their bids and techno- commercial solution/association with any other Organization once selected through this EOI for pre- bid teaming arrangement (before and after submission of bid to prospective customer Organization by RailTel). **This undertaking has to be given with this EOI Response.**
4. Transfer and Sub-letting: The Business Associate has no right to give, bargain, sell, assign or sublet or otherwise dispose-off the Contract or any part thereof, as well as to give or to let a third party take benefit or advantage of the present Contract or any part thereof.
5. Bidder has to agree to comply with all OEM technical & financial documentation including MAF, Technical certificates/others as per end-to-end requirement mentioned in the end customer's RFP as applicable and further issued corrigendum's as mentioned below:

**Detail regarding END CUSTOMER Tender for reference:**

<b>End customer Tender Ref. No.</b>	<b>GEM/20241815639583</b>
<b>Tender ID</b>	<b>GEM/2024/B/5639583</b>
<b>Date of floating by End customer</b>	<b>25.11.2024</b>
<b>Closing time &amp; date</b>	<b>09-01-2025 dtd 15.00 hrs</b>
<b>Floated on portal</b>	<b>Gem Portal</b> <a href="https://gem.gov.in/">(https://gem.gov.in/)</a>

6. Bidder also shall undertake to submit MAF of major items of the proposed solution and other documents required in the end Customer Organization's tender in favour of RailTel against the proposed products. The selected BA has to provide MAF from the OEM in the name of RailTel for bidding in the concerned tender of COCHIN PORT, if their proposed solution is quoted to the customer as applicable and required.
7. The selected bidder will have to accept all Terms & Conditions of COCHIN PORT RFP on back-to- back basis, wherever applicable.
8. Any corrigendum(s) issued by COCHIN PORT against pertinent tender/RFP shall be the part and scope of this EOI document on back-to-back basis and the BA's shall be on the lookout of corrigendum's issued from time to time by RCIL & COCHIN PORT, in the interest of their own Bid.
9. No exemption/relaxation is applicable to MSME/Start-ups.

10. Only, the eligibility clause/criteria and marks scoring criteria for SI/BA (Prospective BA/SI) as mentioned in COCHIN PORT's RFP is not applicable on the Bidder/BA applying against this EOI. Rest all Terms & Conditions of RFP floated for pertinent tender will be complied by SI/BA/Bidders.
11. However, OEM considered by SI/BA for this project have to mandatorily comply all the eligibility & technical criteria/compliance on back-to-back basis in line with end customer RFP and corrigendum(s) issued thereof.
- 12. Please refer COCHIN PORT RFP Payment terms as this will remain applicable on back-to-back basis on Successful bidders. Payment shall be made only after actual receipt of payment from COCHIN PORT on submission of required documents.**
13. Bidder may check the price/commercial bid as per BOQ and match the same with FORMATS FOR SUBMISSION OF THE COMMERCIAL BID of COCHIN PORT RFP and if found any discrepancy, may be brought to the notice of RCIL immediately and may modify their financial bid format as per COCHIN PORT RFP financial bid document.
14. This is a customer centric bid on back-to-back basis and therefore the benefits of MSME shall not be applicable on this Eoi & Work Order.



## 1. About RailTel (Please visit [railtelindia.com](https://www.railtelindia.com) for more insight)

RailTel Corporation of India Ltd (RailTel) is one of the largest neutral telecom infrastructure providers in the country owning a Pan-India Optic fibre network on exclusive Right of Way (ROW) along Railway track. The OFC network presently reaches to over 4500 towns & cities of the country including several rural areas. With its Pan India high-capacity network, RailTel is working towards creating a knowledge society at various fronts. The portfolio of services provided by RailTel includes Data Centre & DR services, Tele-presence as a service, NLD services, IP-1 services, Internet and Broadband services on a pan-India basis.

Equipped with an ISO 9001, 20000-1:2011 & 27000 certification, RailTel offers a wide gamut of managed telecom services to Indian Telecom market including Managed lease lines, Tower co location, MPLS based IP-VPN, Internet, Data Centre services, NGN based voice carriage services to Telecom Operators, Dark fibre leasing to MSOs/LCOs. The major customer segment for RailTel comprises of Enterprises, Banks, Government Institutions/Department, Educational Institutions/Universities, Telecom Service Providers, Internet Service Providers, MSOs, etc. RailTel being a “Nav Ratna (Category-I)” PSU is steaming ahead in the enterprise segment with the launch of various services coupled with capacity augmentation in its Core network.

The main Project of RailTel/ERS Territory on hand are KFON, KSWAN, Wi-Fi service at Kerala Govt. Secretariat, E health Mission, IOCL, VSS Project etc.

## 2. Background of EOI

RailTel Corporation of India Ltd (hereafter referred to as ‘RailTel’) an ICT arm of Indian Railways has been in the forefront of building innovative platforms and solutions and vision to build range of Information and Communication Technology (ICT) Services for its customers.

In this context, RailTel intends to participate in response to the RFP floated by COCHIN PORT as above (hereafter referred to as ‘COCHIN PORT’) and accordingly seeks to select a suitable partner for pre-bid arrangement through this EOI for the work of “Request for Proposal (RFP) for the **Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of Cochin Port Authority, including 2 years guarantee and thereafter 5 years comprehensive AMC**”

Bidder has to agree to comply with all OEM technical & financial documentation including MAF, Technical certificates/others as per end-to-end requirement mentioned in the end customer's RFP. Bidder also shall undertake to submit MAF of major items of the proposed solution and other documents required in the end Customer Organization tender in favour of RailTel against the proposed products. The selected BA has to provide MAF from the OEM in the name of RailTel for bidding in the concerned tender of COCHIN PORT, if their proposed solution is quoted to the customer, wherever applicable.

The details of tender are as below:

**Tender Title: Request for Proposal (RFP) for the Selection of Data Centre Operator for the Operations and Management of Kerala State Data Centres**

**Ref. No.: GEM/20241815639583 dtd 25.11.2024;** latest amendment/ Corrigendum / clarifications. **Floated on:**  
**Gem portal (<https://gem.gov.in/>)**

### **Method of Quoting**

System Integrator (SI)/BA shall quote for single OEM/ make and model for each item description, subject to the confirmation of the given specification equivalence. The make and model shall be clearly mentioned in the proposal. However the subsistence/subcomponents offered shall be compatible with inter-operability to the main system, if different makes/models offered. Deviation to be this will not be accepted/shall be summarily rejected, Wherever applicable.

### **3. Scope of Work & Partner Selection**

The scope of work will be as mentioned in the pertinent end Customer organization RFP/Tender for **“Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of Cochin Port Authority, including 2 years guarantee and thereafter 5 years comprehensive AMC”** on the website <https://gem.gov.in/> with all latest amendment/Corrigendum/ clarifications. All materials that propose to use with the work shall be approved by the Employer / Engineer-in-charge. The scope of work is subject to addition / deletion by the Employer.

**The following is the broad scope of work however, this list is only indicate and not exhaustive , rather to serve as broad guidelines only. The RFP of the tenderer as enclosed is taken into cognizance for submitting EoI as per Ref. No.: GEM/20241815639583 dtd 25.11.2024. Floated on: Gem portal (<https://gem.gov.in/>)with all latest amendment/Corrigendum/ clarifications.**

#### **The scope of work includes**

(i) The requirement, calls for a complete working system and not components thereof. Bids must be complete with all equipment and required accessories along with necessary power systems including standard video connectors, patch connectors, patch leads, mounting and fitting hardware, plugs, sockets and any hardware/software, etc. as required for complete installation of the System under this contract.

(ii) The scope of this tender includes, Supply installation and commissioning of IP based CCTV surveillance system, involving fixed/PTZ cameras and ANPR IP cameras at various locations compatible to the existing system.

(iii) Functional requirement:

- a) Easy and convenient operation
- b) Stability

- c) Back-up as evidence for 90 days
- d) Cameras shall be manufactured with high reliable components, with long lifespan.
- e) The contractor shall ensure that the system is supplied, installed and commissioned as per user's satisfaction.
- f) The contractor has to provide Media as required for all the software.
- g) The installed system shall have the latest version of the applicable software.
- h) The scope also includes making good defective materials/items and the workmanship during the 2-year guarantee/5-year OEM warrantee periods, as the case may be.
- i) The contractor shall ensure that the system is supplied, installed and commissioned as per the Scope of work.

#### **A. General:**

1. The Scope of Work is for providing IP CCTV cameras at various locations of Cochin Port including Container Freight Station (CFS) and making available the CCTV visuals in the CISF Control Room on the 7th floor of the New Administrative Building of Cochin Port. The cameras shall be erected on GI poles or on the existing buildings. Optical Fiber / Cat 6 cable shall be laid through HDPE/PVC pipe/ ground / clamping along walls from the nearest OFC available point of Cochin Port and connections provided by installing Outdoor/Indoor wall mounting rack, Poly carbonate junction box, SFU modules, POE switches, MCB's etc. Lightning arrestor, surge protector, earthing and UPS shall be provided for each camera. In addition, OFC cable is proposed to be laid from the nearest OFC location to the existing and proposed CCTV cameras in the 2 Toll gates, existing CCTV cameras in A2-A3 areas near CoPA avenue walkway and also from the BTP Berth to the existing camera near the Private Jetty. Wireless communication is also intended from the cameras at two locations, viz. Cochin Oil Terminal and North Tanker Berth(existing) to CISF control room on the 7th floor of New Administrative Building.
2. At present, Cochin Port has a comprehensive network of NVR based IP cameras (47 Nos.) spread all over Willingdon Island (8 sq. km). List and type of existing cameras with locations provided is given below for reference. These 47 Nos. cameras (10 Nos. in CFS) are of HANWHA make and installed after 2016 and are under AMC/ Guarantee. These cameras are NVR based with HDD's capable of recording upto 90 days and visuals available in the CISF control room on the 7th floor of the New Ad. Bldg. The data is being transmitted through CoPA's OFC cables where available and through BSNL Leased lines.
3. In the present proposal we intend to install additional 35 Nos. cameras at various locations of CoPA including CFS. Our existing CCTV surveillance is based on NVR. We propose to switch over from NVR to VMS which provides more control over the video data and allows for more efficient management of video surveillance networks. The VMS offered shall support upto 500 cameras with adequate capacity video management server, camera recording server and hard disks for recording live videos upto 90 days. In the estimated rates, license for 200 cameras for 5 years is included. No failover for Servers considered but provision for providing failover is there in the Server. The Tenderer shall consider all the above and quote accordingly.
4. All Software Licenses should be for life time in the name of CHIEF MECHANICAL ENGINEER, COPA and during warranty period upgrade at free of cost as & when new versions are released.
5. The Tenderer shall provide VMS system and Server compatible to the new CCTV cameras that are proposed to be provided in this tender and the old existing CCTV cameras already available at CoPA premises.
6. All the CCTV cameras, Racks, Network switches, POE switches, SFP switch, UPS, P2P link, Rack Mount Recorder, HDD, High End work station, professional display & PTZ joy stick controller shall be covered under OEM warranty for 5

- years (Item Nos.1,2,3,4,6,7,8,9,19,22,24,28,29, 30,31,32,33,34,35,36 of BOQ). This may be considered while quoting AMC rate by the bidder.
7. The tenderer may visit the location and assess the present network & cameras and new requirements before submission of the offer for total CCTV solutions. The ANPR cameras are proposed to be installed at the two entry Toll Gates(IG Road Toll Gate and Bristow Road Toll Gate) of CoPA. The ANPR cameras shall identify the registration numbers of vehicles entering / exiting through the toll gates(24 hours). There are 2 lanes for INCOMING and 2 lanes for OUTGOING in each Toll Gate. The CCTV footages shall be viewable in the CISF control room on the 7th floor of the New Administrative Building of CoPA. The Bidder shall ensure that the CCTV visuals and number plates of vehicles are captured in the entire 24 hours. The Capacity of the cameras, poles etc. shall be designed accordingly. The ANPR Cameras will be accepted only after all images are seen to the satisfaction of the Engineer-in-charge. Presently we have installed ordinary IP cameras and remote surveillance is being done with BSNL LL facility. We intend to lay OFC cable from the OFC point near Mattancherry Wharf to IG Road Toll Gate and Bristow Road Toll Gate and surrender the existing P2P connection availed from BSNL. Also OFC is proposed to be laid from IG Road Toll Gate to existing CCTV cameras in A2-A3 area near Avenue walk way. Wireless communication is also intended from the cameras at two locations, viz. Cochin Oil Terminal and North Tanker Berth to CISF control room on the 7th floor of New Administrative Building.
  8. In the Container Freight station (CFS), we propose to install 6 Nos. new IP cameras. Presently there are 10 Nos. (Infinova make) box type cameras, 8 Nos. Zoom type box camera (Hanwha make) and 2 Nos. Fish Eye Cameras (Hanwha make) inside CFS. The existing Hanwha/ Infinova cameras are to be re-positioned and fixed along with the new cameras inside CFS for effective surveillance of CFS. The successful bidder has to do the site study and submit the detailed layout positioning cameras and its accessories in any latest format. All cameras should be integrated in the as built layouts and the same should be configured to display for easy location identification. All cameras should be positioned according to the Cochin Port requirement and the vendor should ensure the coverage and quality footages of each area as a part of commissioning. The new cameras, VMS etc. shall be compatible with the existing systems and images shall be viewable locally at the ATM's room inside CFS and at the 7th floor of the New Administrative Building.
  9. Back up should be in full resolution at 20fps at minimum 3000 kbps available for 90 days at all locations, after installation of new CCTV cameras. The BoQ specifies 18 nos. of 18TB Hard disk. If the solution provided by the bidder does not satisfy the requirement, additional hardware and storage should be considered. The system should provide 99.99 % uptime and no data should be lost. Suitable provision for disaster recovery mechanism should be available.
  10. The specification of workstations/servers provided in the document is minimum. The bidder can consider higher specification for the smooth functioning of the system, if required.
  11. The VMS shall be able to support all types of IP cameras. The proposed solution should be able to generate various standard/ customized reports for event analysis / reporting purposes.
  12. The proposed system should have high level of network security. Hacking of the video footages through VMS should not happen at any cost. Suitable antivirus – Server Client Architecture for servers, storage, workstations etc. needs to be installed with end point protection. Periodic security audit of the video management system to protect the system against hacking and all possible best practices must be adopted.
  13. The proposed antivirus software should be compatible with the VMS system offered. The antivirus system should be installed on the server. Validity of the Server antivirus (original) should be licensed with free updation during the warranty period.
  14. The Bidder may visit the site and acquaint himself with the location and site conditions before quoting.

**Delivery and Completion:** (Change Orders and Contract Amendments) the delivery of the Goods and completion of the Related Services shall be done within **60 days** from the date of receipt of Letter of Acceptance of Employer. The details of shipping and other documents to be furnished by the Contractor.

**Phasing of Work:** The contractor will be required to furnish a phased programme of the works as to how he intends to complete the work to the Employer within 7 days from the date of receipt of the Letter of Acceptance from the Employer. The contractor shall indicate separate definite times for completion of various parts of the work. He will be required to adhere to such programme so as to complete the entire work within the stipulated completion period. The Contractor shall furnish progress report to the Employer on fortnightly basis for monitoring by the Employer, indicating delay, if any, its reason, and proposal to cover up the delay.

The work can be carried out only as per such plan approved by the employer. Based on the recommendations and directions of the employer, the contractor shall be liable to modify and resubmit the phased manner plan, and get the approval of the employer within reasonable time. Failure to submit the phased manner plan or failure to get the approval of employer for the submitted phased manner plan within the period stipulated or within reasonable time, respectively, shall be construed as a breach of obligation by the contractor of the contract. Failure of the contractor to meet the timelines mentioned in the approved phased manner plan shall also be construed as breach of obligation by the contractor.

**Procurement of materials:** The Contractor must make his own arrangements for timely procurement of all materials, machinery, equipment etc. of specified and or approved quality required by him for the efficient and regular execution of the works comprised in this contract from the manufacturers and suppliers concerned. Delay in supply of any of these materials, machinery, equipment etc. will not be taken as an excuse for not completing the contract within the stipulated period. Contractor shall notify the Employer of his proposed source of material prior to delivery.

**Compliance of regulations:** The contractor warrants that all Goods/Materials covered by the contract have been produced, sold, dispatched, delivered and furnished in strict compliance with all applicable laws, regulations, labour agreement, working condition and technical codes and statutory requirements as applicable from time to time. The Supplier shall ensure compliance with the above and shall indemnify Employer against any actions, damages, costs and expenses of any failure to comply as aforesaid.

#### **Specification and Standards:**

Technical specification and drawings:

(a) The Goods and Related Services supplied under this contract shall conform to the Technical Specifications and Standards mentioned in Section IV, Scope of Work and Technical Specifications and when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate.

(b) The Contractor 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 Employer, by giving a notice of such disclaimer to the Employer.

(c) 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 Schedule of Requirements. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Employer and shall be treated in accordance with GCC Clause 23 (Change Orders and Contract Amendments).

#### **Packing:**

- Contractor shall provide adequate packing of Equipment's to prevent the damage or deterioration during transit to their final destination. The contractor shall be held responsible for all damages or breakages to the goods due to the defective or insufficient packing as well as for corrosion due to insufficient protection. Packing shall

withstand hazards normally encountered with the means of transport including loading/unloading operations and shall be done in such a manner to reduce volume as much as possible.

- The packing specification incorporated herein are supplementary to the internal and external packing methods and standards as per current general rules of J.R.A. Good Tariff Part-I.
- Fragile articles should be packed with special packing materials depending on the type of Materials and the packing shall bear the words "HANDLE WITH CARE GLASS FRAGILE, DON'T ROLL THIS END UP. THIS END DOWN," to be indicated by arrow.
- The hazardous materials shall be packed in accordance with the applicable rules, regulations and tariff of all cognizant Government Authorities and other Governing bodies. It shall be the responsibility of the seller of hazardous materials to designate the material as hazardous and to identify each material by its proper commodity name and its hazardous material class code.
- All packages requiring handling by crane should have sufficient space at appropriate place to put sling of suitable diameter (strength). Iron/Steel angle should be provided at the place where sling marking are made to avoid damage to package/ equipment while lifting.
- Item shipped in bundles must be securely tied with steel wire or strapping. Steel reinforcing rods, bars, pipes, structural members etc. shall be bundled in uniform lengths and the weight shall be within the breaking strength of the securing wire or strapping. In the case of imports, for bundles the shipping marks shall be embossed on metal or similar tag and wired securely on each end.
- All delicate surfaces on equipment/materials should be carefully protected with protective paint/compound and wrapped to prevent rusting and damage.
- All mechanical and electrical equipment and other heavy articles shall be securely fastened to the case bottom and shall be blocked and braced to avoid any displacement/ shifting during transit.
- Attachments and spare parts of equipment and all small pieces shall be packed separately in wooden cases with adequate protection inside the case and wherever possible should be sent along with the main equipment. Each item shall be suitably tagged with identification of main equipment, item denomination and reference number of respective assembly drawing. A copy of the packing list shall accompany the materials in each package.
- All protrusions shall be suitably protected by providing a cover comprising of tightly bolted wooden disc on the flanges. All nozzles, holes and openings and also all delicate surfaces shall be carefully protected against damage and bad weather. All manufactured surfaces shall be painted with rust proof paint.
- In the case of imports, for bulk uniform material when packed in several cases, progressive serial numbers shall be indicated on each case.
- Wherever required, equipment/materials instruments shall be enveloped in polythene bags containing silica gel or similar dehydrating compound.
- Detailed packing list in waterproof envelope shall be inserted in the package together with equipment/materials. One copy of the detailed packing list shall be fastened outside of the package in waterproof envelope and covered by metal cover.
- Packaged equipment or materials showing damage defects or shortages resulting from improper packaging materials or packing procedures or having concealed damages or shortages, at the time of unpacking shall be to the supplier's account.
- All packages which require special handling and transport should have their Centre of Gravity and the points at which they may be slung or gripped clearly indicated and marked —ATTENTION- SPECIAL LOAD HANDLE WITH CARE|| in English Language.
- Along with the packed material, supplier should attach material list, manuals/instructions and also the Inspection certificate/release note, wherever applicable.

### **Marking:**

The following details to be written on the side face of packing:

- a) LoA Number.
- b) Supplier's Name.
- c) Batch No. with Manufacturing Date.

**Insurance:**

- The Goods supplied under the Contract shall be insured by the Supplier at his cost, for the full value as specified in the Employer's supply order against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery from the works until they are delivered at Employer's premises and accepted by the Employer. Such insurance policy shall be jointly in the name of Contractor and Employer against destruction or damage by accident, fire, flood and tempests. The Contractor shall from time to time, when so, required by the Employer produce the Policy and the receipt for the premium. All money received under any such policies shall be applied in or towards the reconstruction or preparation of the materials, plant and things destroyed or damaged, but this provision shall not affect the contractor's liabilities under contract.
- The supplier shall be responsible for insurance of all his employees/representatives who are deputed for operational demonstration of equipment at Cochin, against any accidents and shall indemnify the Employer.

**Transportation:**

The Supplier is responsible for transportation of Goods/Equipment's from Supplier's premises to the Employer's site at the cost and risk of the Supplier.

**Inspection and Testing:**

- The Inspection and Tests shall be conducted at Contractor's premises and the cost of all such tests shall be borne by the Contractor apart from making arrangements for conduct of such tests. Employer shall not be liable to make any additional payments for conduct tests or for change of location of Test. All cost for fulfillment of obligation on the part of Contractor shall be deemed to have been included in the total contract price offered by him on which the Contract has been awarded to him. However, in case of Additional Tests if any are requested by the Employer shall be at the cost and time of Employer in which case also the Contractor shall make all arrangements required for conduct of such tests in the manner prescribed to do so by the Employer or TPI.
- The Employer reserves the right to witness the Pre-delivery Inspection at the Contractor's premises or any place the work demands, along with TPI. The inspections and tests are to be conducted to the entire satisfaction of TPI/Employer. The details of inspections and tests to be carried out are specified under Scope of work and Technical Specifications.

**Liquidated Damages**

As per RFP back to back basis

**II. PROPOSED LOCATIONS & TYPE OF NEW CCTV CAMERAS**

No.	Location	Type of Camera	Qty. of camera	
1	Ekm. Wharf Q 5 shed south end - For surveillance of wharf area of Q5	O/D box motorised VF IR camera	3	Nos.
2	Ekm. Wharf Q 6 shed MIDDLE - For surveillance of wharf area of Q6	O/D box motorised VF IR camera	2	Nos.
3	Ekm. Wharf Q 8 MIDDLE- For surveillance of wharf area of Q8	O/D box motorised VF IR camera	2	Nos.
4	Ekm. Wharf Q 9 - MIDDLE - For surveillance of wharf area of Q9	O/D box motorised VF IR camera	2	Nos.

5	Ekm. Wharf Kiosk area of Sagarika Cruise Terminal- For surveillance of cruise passenger movements	O/D box motorised VF IR camera	1	No.
6	Ekm. Wharf Parking area of Sagarika Cruise Terminal- For surveillance of cruise passenger movements	O/D box motorised VF IR camera	1	No.
7	MATT. CHANNEL - BTP Berth (Near NCB) - For surveillance of BTP wharf area & also NCB area/Marine Jetty area	O/D box motorised VF IR camera	5	Nos.
8	MAT. WHARF - RO RO JETTY & Q1 berth- For surveillance of wharf area of RO-RO & Q1 perimeter boundary	O/D box motorised VF IR camera	2	Nos.
9	MAT. WHARF South Gate - For surveillance of unmanned isolated gate & perimeter boundary	O/D box motorised VF IR camera	2	Nos.
10	MAT.WHARF Q4 berth- For surveillance of wharf area & Q4 perimeter boundary	O/D box motorised VF IR camera	2	Nos.
11	Bristow Road Toll Gate	ANPR camera	2	Nos.
12	Indira Gandhi Road Toll Gate	ANPR camera	2	Nos.
13	NTB & STB near main gate area- For surveillance of sensitive area due to public movements near gate.	O/D box motorised VF IR camera	2	Nos.
14	COT - For watching movements around COT	PTZ Camera	1	No.
15.1	CFS inside - For surveillance of Cargo movement	Zoom type box camera	5	Nos.
15.2	CFS inside- For surveillance of Cargo movement	Fish eye camera	1	No.
<b>TOTAL NO. OF CAMERAS</b>			<b>35</b>	<b>Nos.</b>

**Back up proposed after installation of new cameras - 90 days at all locations including CFS**

#### DETAILS OF EXISTING CCTV CAMERAS

I	2013	INFINOVA CAMERAS			Cameras to be checked, repositioned & connected to new Server. Present server is in 5th floor EDP Data centre
	CFS	IP Box type fixed camera	10	Nos.	
	Old Ad.Bldg. Access Control	IP Box type fixed camera	1	No.	
	New Ad.Bldg. Access Control	IP Box type fixed camera	1	No.	
	Marine Bldg. Access Control	IP Box type fixed camera	1	No.	
	Hospital Access Control	IP Box type fixed camera	1	No.	
	Fire station Access Control	IP Box type fixed camera	1	No.	
			15	Nos.	
II	2016	HANWHA TECHWIN			
1	New Ad. Bldg.	PTZ Zoom camera	1	No.	
2	Q6 berth	PTZ Zoom camera	1	No.	
3	Q2 berth	PTZ Zoom camera	1	No.	



4	E/Wharf gate	IP Box type fixed camera	2	Nos.	These 21 cameras Under AMC till 2024
5	M/Wharf gate	IP Box type fixed camera	2	Nos.	
6	CFS	IP Box type fixed camera	2	Nos.	
7	Toll gates	IP Box type fixed camera	4	Nos.	
8	OTB	IP Box type fixed camera	3	Nos.	
III	2017	HANWHA TECHWIN			
9	Embarkation Jetty	IP Box type fixed camera	2	Nos.	
10	Mattancherry Jetty	IP Box type fixed camera	1	No.	
IV	2017	HANWHA TECHWIN			These 23 cameras under AMC till 2026
11	South End Rec.Area- A2	IP Box type fixed camera	2	Nos.	
	2019	HANWHA TECHWIN			
12	New Ad. Bldg. 6 floors	Dome type fixed camera	6	Nos.	
13	Car parking-New Ad.Bldg.	Bullet type fixed camera	3	Nos.	
14	In front of Chairperson residence	Zoom camera box type	2	Nos.	
15	Inside CFS shed	Fish eye Dome camera	2	Nos.	
16	Inside CFS shed	Zoom camera box type	6	Nos.	
17	CISF Armoury of CoPA	Dome type fixed camera	1	No.	Under Guarantee
18	CISF Armoury of CoPA	Zoom camera box type	2	Nos.	
19	Near Customs Comm. Bunglaw	Zoom camera box type	1	No.	
V	Jan-22	HANWHA TECHWIN			
20	South End Rec. Area- A3	IP Box type fixed camera	3	Nos.	
	<b>TOTAL NO. OF CCTV CAMERAS AT PRESENT AT VARIOUS LOCATIONS</b>				<b>47 Nos.</b>
	<b>In CFS - 10 Nos. Hanwha Techwin and 10 Nos. old Infinova cameras.</b>				
	<b>Back up of existing cameras is available for 90 days at CISF CONTROL ROOM. At CFS only 30 days</b>				

**DOCUMENTATION:****I. Documents to be provided after award of PO, before supply of CCTV system**

- Technical catalogues /Datasheets of components to be supplied.
- Factory test reports with serial No.
- Execution Schedule
- BOM
- Installation layout of CCTV cameras, poles, racks etc.

**II. Documents to be provided after commissioning of CCTV System.**

- O&M manual – 3 sets
- Final BOM with make and details of each components – 3 sets
- Complete project deployment & Handholding Document – 3 sets

NO.	DESCRIPTION OF ITEM
9	<b>4/8-port POE+ Switch With 2 SF PORT</b>
	<b>Specification</b>

	Interfaces	Minimum 4 X 10/100/1000 Mbps ports with 2x1G SFP
	PoE Budget	55 watts
	IEEE	802.3af/802.3at
	<b>Performance</b>	
	Switching Capacity	20Gbps
	Mac address Table	8K
	Vlans	64
	Packet buffer memory	512kb
	CPU Memory	128MB DDR RAM
	Flash Memory	32MB
	Jumbo Frame	<b>10k</b>
	Management	<b>Supports IPv6 Management</b>
		<b>• web Based Graphical User Interface</b>
	Environmental	<b>Switch should have operating temperature range of 0-40C in continuous operation</b>
	Certifications	<b>UL, CE/FCC, BIS, IS</b>
	Warranty	<b>5 year Warranty</b>
10	<b>24-port 1/10G Base-X Layer-3 Stackable Managed Switch.</b>	
	<b>Physical Interfaces</b>	2 # 1/10G Base-T Copper Ports(shared)
		24 # 1/10G Base-X Fiber SFP Ports
		Ethernet: Out-of-band 1G port, Console: RJ45, Console: Mini-USB, Storage: USB
	<b>CPU/ Memory</b>	CPU: 800 MHz
		RAM: 1 GB
		Packet buffer memory: 32 MB
		Flash: 256 MB
	<b>Environmental</b>	Operating Temperature: 0° to 40°C)
	<b>Certifications</b>	UL,CE,FCC, BIS, IS
	<b>Warranty</b>	5 year Warranty
11	<b>24-port 1000base-T Gigabit PoE+ Smart Switch</b>	
	<b>Physical Specifications</b>	24 # 10/100/1000 Base-T auto-sensing PoE+ ports and 4 dedicated 100/1000 Base-X Fiber SFP ports
	<b>Performance Specification</b>	Bandwidth: 56 Gbps non-blocking or above
		Forwarding rate: 41mpps or more
		MAC Address database size: 16 media access control (MAC) addresses or more
		VLAN: 256 or above
		Packet buffer: 1.5Mb or above
		Jumbo frame: 9216
		PoE budget: 190W or more

	<b>Certifications</b>	UL,CE/FCC, BIS, IS
	<b>Warranty</b>	5 year Warranty
12	<b>24-port 1000base-T Gigabit Smart Switch</b>	
	<b>Physical Specifications</b>	24 # 10/100/1000 Base-T auto-sensing ports and 2 dedicated 100/1000 Base-X Fiber SFP ports
	<b>Performance Specification</b>	Bandwidth: 52 Gbps non-blocking or above
		MAC Address database size: 16 media access control (MAC) addresses or more
		VLAN: 256 or above
		Packet buffer: 2MB or above
		<b>Jumbo frame: 9216</b>
		<b>Multicast groups: 512</b>
		<b>Mac: 16k or more</b>
	Certifications	<b>UL,CE/FCC, BIS, IS</b>
	Warranty	<b>5 year Warranty</b>
13	<b>SFP module</b>	
	1G Single Mode Duplex SFP module with 3 year warranty.	
14	<b>P2P Point to point Wireless Connectivity</b>	
	Antenna Type	Omni directional/Flat Panel
	Antenna Gain	19 dBi
	Antenna Beamwidth	3 dB - 14.5°/3 dB - 12.5°
	Environmental	IP67
	Temperature	-30°C to 60°C
	Wind Survival	200 km/h (124 mph)
	Certifications	CE ,FCCID, BIS, IS
	Warranty	5 year Warranty
15	<b>800 VA UPS with INBUILT BATTERY (minimum Capacity)</b>	
	Input Voltage	220/230 vac
	Input Voltage Range	160-300 vac
	Frequency Range	50 hz & Variation as per IS
	Output	Minimum one hour backup
	A/c Voltage Regulation	As per IS
	Waveform	Simulated Sine Wave
	Transfer Time	4-8 ms
	Warranty	5 year Warranty
16	<b>UPS of Capacity as required for the System with BATTERY (minimum Capacity 2KVA or higher)</b>	
	Input Voltage	220/230 vac
	Input Voltage Range	160-300 vac
	Frequency Range	50 hz and variation as per IS

	Output	Minimum one hour backup
	A/c Voltage Regulation	As per IS
	Waveform	Sinusoidal
	Warranty	5 year Warranty
17	<b>Lightning Arrestor</b>	
		1 meter Copper Alloy based lightning Arrestor, clamp, wire with Graphite based chemical compound earthing and min 250 microns copper bonded low carbon steel rod, Earthing strip of 25x3/6 mm
18	<b>Outdoor POE in-line surge protector</b>	
	Standards compliance:	IEC 61643-21/ EN 61643-21 / UL497B IEEE 802-3af/3at/3bt/ ANSI/TIA-568-C.1
	Certification:	UL
	Technology:	GDT/ diode
	Network:	POE
	Max. DC operating voltage	60 Vdc - 650 mA
19	<b>Type 2 DC surge protector - 30 V</b>	
	Standards compliance:	IEC 61643-11 / prIEC 61643-41
	Remote signaling of disconnection:	output on NC contact
	Max. DC operating voltage:	30 V DC
	Max. discharge current	3 kA
	Admissible short-circuit current:	10000 A
20	<b>Rack /Poly Carbonate Box</b>	
		The lockable Metal door at the front and the rear ends are closed. With required fittings to fix it on a wall/pole
		It can be used as Pole-Mount or Wall-Mount.
		IP56 Certified Weatherproof Rack with cooling fan
		Minimum Dimension (600mm x 200 mm x 170 mm)
		The tenderer should consider the applicable size of each Outdoor Box / Rack as per the site. Rack/box should accommodate with all active and passive products required with neat and tidy arrangement
	Warranty	5 year warranty

**FIBER SPECIFICATIONS -TECHNICAL SPECIFICATIONS FOR PASSIVE CABLING****Single mode(OS2) Armoured Indoor/Outdoor Fiber cable -Dry tube**

No.	Specifications	Requirement
1	Cable Type	Single Jacket, Armored, Dry tube, Indoor/Outdoor Stranded Loose Tube Cable
2	Fiber Type	G.652.D Single mode OS2, Zero Water Peak Cable
3	No of cores	6
4	Fiber dia. and identification	9/125/250 with different color sequence as defined by TIA standard for identification
5	Armoring Type	Corrugated Steel Tape Armour for crush and rodent protection
6	Outer Sheath	FRLSZH with Minimum 2.1MM thickness
7	Strength member	Glass Yarns-Peripheral
8	Loose Tube	Dry tube construction and one water blocking yarn in each loose tube
9	Jacket UV Resistance	UV Stabilized
10	Jacket Color	Black
12	Minimum Bend Radius	440 mm (Loaded) 115 mm (Unloaded)
13	Tensile Load, Maximum	1250 N @ 0.25% FIBRE STRAIN
14	Operating Temperature	-20 °C to +70 °C
15	Cable weight	120KG/KM
16	Diameter Over Jacket	10.50 MM
17	Water Penetrations Test Method	24 hours (as per IEC 60794-1 F5)
18	Attenuation, maximum	0.22 dB/km at 1550 nm 0.34 dB/km at 1310 nm
19	Standards	EN 50173, ISO/IEC 11801, ANSI/TIA-568-C.3, IEC 61034-2, IEC 60754-2
20	Regulatory Compliance	RoHS 2011/65/EU compliant
21	Country of origin	Product country of origin and associated manufacturing plant details to be furnished for verification
22		Includes all required accessories such as fully loaded fiber panel and patch cords to complete the structured cabling including 2years warranty as per specification

**CABLE SPECIFICATIONS:****Cat-6 U/UTP Indoor/Outdoor Cable-Double sheath Anti-rodent cable**

No.	Details	Specification
1	Type	Unshielded Twisted Pair, Jell free, Category 6, TIA / EIA 568-C.2& ISO/IEC 11801

2	Environment	Double jacketed cable for indoor & outdoor application and crush resistance
3	Conductors	23 AWG solid bare copper
5	Insulation	Polyolefin
6	Outer sheath	LSZH for Indoor purpose
7	Inner sheath	Polyethylene, UV Resistant for outdoor purpose
8	Pair Separator	Cross-member (+) fluted Spline.
9	Temperature range	-20 Deg. C to +70 Deg. C
10	Frequency tested up to	Minimum 250 MHz
11	Packing	Box of 305 meters
12	Cable Outer Diameter	7.2 mm nominal
13	Delay Skew	45ns MAX.
14	Bend Radius	28mm Minimum
15	Anti-rodent	Must be Anti-rodent with Black
16	Conductivity	Cable shall not have any metal/Armour layer to protect. They can carry the electrical/lighting current directly to switch, if the cable is exposed to environment
17	Impedance	100 Ohms + / - 15 ohms, 1 to 250 MHz.
18	Mutual Capacitance	5.6 NF MAX /100 Mtr.
19	Conductor Resistance	66.58 Ohms Max / KM
20	Propagation Delay	536 ns/100 Mtrs. MAX @ 250 Mhz
21	Transmission Standards	ANSI/TIA-568.2-D, ISO/IEC 11801 Class E
22	Remote Powering	Cable shall be fully complied with the recommendations set forth by IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable when installed according to ISO/IEC 14763-2, CENELEC EN 50174-1, CENELEC EN 50174-2 or TIA TSB-184-A
23	Performance characteristics to be provided along with bid	Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR
24	ROHS Compliant	ROHS/ELV Compliant
25	Accessories	Includes all required accessories such as patch panel, reusable IDC connector, patch cords to complete the structured cabling including 2 year warranty as per specification

#### General requirements of camera.

Both PTZ and fixed cameras shall be supplied with its mounting arrangements as per the site conditions, i.e., wall or pole mounted with all required accessories and fitments. The entire camera shall be provided with IP66 housing. Outdoor housing (IP66) should be from the same camera manufacturer. It should be die- cast and extruded Aluminium construction.

- (1) POE switch shall be supplied and installed complete with all accessories for viewing the video signals individually at Centralized Video Surveillance system control room (CVSS) as per technical specification.
- (2) The Camera Power supply is for extending the UPS power to the PTZ cameras from the UPS out socket. The scope includes wiring materials, its accessories, plug & Sockets if required. The method measurement is taken as unit rate.
- (3) The Power cable is intended for drawing raw power from available source to the UPS to be provided near camera location.

- (4) In case where the distance of NVR and camera is more than 70 mtrs, OFC can also be used for which necessary splicing arrangements shall be supplied by the firm without extra cost.
- (5) HDPE pipe shall be suitable for drawing the CAT 6, STP cable/OFC conforming to relevant IEC/BIS. The HDPE material shall conform to ASTM D 3350. Necessary clamps, fasteners etc shall be supplied when the pipe is drawn through wall/structures etc.
- (6) The PVC conduits are meant for drawing power cables. The size of the conduits shall be 38mm diameter. Saddles for fixing conduits shall be heavy gauge non-metallic type with base. Bends, couplers etc of solid type shall also be used along with conduits as per requirement.

#### **Supply and laying of HDPE pipe below the ground.**

HDPE pipe are proposed for laying the OFC and data cables for use of CCTV communications. The HDPE pipes shall be laid through open trenches, hard surfaces after excavation of same at about 50 CM depth and excavated portion shall be backfilled , compacted with excavated material with compaction without damaging the pipe and cables. Loose soil cover shall be provided above the HDPE pipe for avoiding damage to the cables and pipes. For vehicle crossing areas sufficient depth shall be maintained to avoid damage to cables. Cable route marker shall be provided without any extra cost at required interval. Excavation shall be done by JCB/ manual by taking extreme care without damaging the existing cable and other utilities in the location. If any damaged has occurred to the utilities the contractor shall make good the damaged portion by his own cost.

#### **Resurfacing the hard surface after excavation.**

The excavated hard surface shall be resurfaced with Cement Concrete after proper compacting the area .

#### **Fixing and Foundation for Poles**

Poles supplied for fixing the CCTV shall be erected with suitable CC foundation with at least 30 CM diameter and 50 cm depth from ground and 20 CM above ground. Sufficient supports shall be given at bottom of poles for proper fixing of same. At the top of the poles necessary GI sheet cover shall be provided for the protection of Cameras as per requirements.

#### **APPROVED MAKES**

CCTV CAMERA	As per Technical Specification. The Bidder shall submit letter, as per the format (Annexure-D), from OEM expressing his assurance on functionality by extending technical support including supply of spares for a period of 7 years.
VMS ***	As per technical Specification and as selected by the Bidder. Please Note that the selected brand & Model shall be compatible with new & existing CCTV Camaras. The Bidder shall submit letter, as per the format (Annexure-D), from OEMs expressing their assurance on functionality by extending technical support of the proposed items including supply of spares for a period of 7 years.
CAMERA RECORDING SERVER OR NVR	
CENTRAL VIDEO AND DATABASE MANAGEMENT SERVER	
WORK STATION/ PC	
NETWORK SWITCH / SFP MODULE	
NETWORK/ OUTDOOR RACK	
HARD DISK	

UPS WITH BATTERY	
OFC / CAT 6 CABLE	MOLEX / COMSCOPE/ PANDUIT/ LEGRAND/ FINOLEX/ CORNING/NEXANS/ Any other make with approval of CoPA
POWER CABLE	FINOLEX/ Q FLEX/ RR KABEL/ RPG CABLES/ LAPP KABEL/ V-GUARD/ HAVELLS/ L&T/ KEI/ RALLISON/Any other make with approval of CoPA
SURGE PROTECTOR	APC/DHEN/ CAPE ELECTRIC/OBO BETTERMANN/ L&T/
LIGHTNING ARRESTOR	Any other make with approval of CoPA
LED MONITOR	SONY/ PANASONIC/ SAMSUNG/ PHILIPS/ LG/ Any other make with approval of CoPA
MCB'S, SWITCHES, ADAPTORS ETC	LEGRAND / MERLIN GERIN/MK/ ABB/ GE POWER / HAVELLS/ HPL/ SIEMENS/ L&T/ MDS/ INDOASIAN/ Any other make with approval of CoPA
PVC CONDUIT	ISI marked Brands
HDPE PIPE	

### 3.1 Warranty & AMC

The warranty would be valid for the performance of products, service and application for the 2 years guarantee from the date of supply, as applicable in the **Cochin port RFP**.

The Contractor warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

- The Contractor further warrants that the Goods shall be free from defects arising from any act or omission of the Contractor or arising from design, materials, and workmanship, under normal use in the conditions prevailing in INDIA.
- The Employer shall give notice to the Contractor stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Employer shall afford all reasonable opportunity for the Contractor to inspect such defects.
- Upon receipts of such notice, the Contractor shall, within the period of seven days, repair or replace the defective Goods or parts thereof, at no cost to the Employer.
- If having been notified, the Contractor fails to remedy the defect within seven days, the Employer may proceed to take within a reasonable period such remedial action as may be necessary, at the Contractors risk and expense and without prejudice to any other rights which the Employer may have against the Contractor under the Contract.
- All the CCTV cameras, Racks, Network switches, POE switches, SFP switch, UPS, P2P link, Rack Mount Recorder, HDD, High End work station, professional display & PTZ joy stick controller shall be covered under OEM warranty for 5 years. The guarantee period for the entire work shall be effective for a period of twenty four (24) months and it will be in force from the date of completion of the work under the contract and acceptance by the Employer and the contractor shall be responsible for any defects that may develop under proper use arising from faulty materials, designs, workmanship in the work but not otherwise and shall at his own cost remedy such defects when called upon to do so by the Officer In-charge who shall state in writing in what respect any portion is faulty.



- If it becomes necessary for the contractor to replace or renew or repair any defective portions of the Supply of the items under this clause, the provisions of this clause shall apply to the portions of the Supply so replaced or renewed or repaired until the expiry of six months from the date of such replacement/ renewal/repair or until the above mentioned period of 24 months, whichever may be later. If any defects are not remedied within a reasonable time, the Employer may proceed to do the work at the Contractor's risk and expenses but without prejudice to any other rights which the Employer may have against the contractor in respect of such defects.
- If the replacement or renewals are of such a character as may affect the efficiency of the items Supplied, the Employer and/or the Engineer shall have the right to give to the The cost quoted shall include the charges for AMC if required.
- contractor within one month of such replacement or renewal notice in writing the Test on Completion' be made in which case test shall be carried out as provided in accordance with the relevant clauses under Scope of Supply and Technical Specification thereof. Should such guarantee not be sustained the cost of the test shall be borne by the Contractor.
- All inspection, adjustments, replacement or renewal carried out by the contractor during the period referred to in this clause shall be subject to the conditions of this contract which shall be binding on the contractor in all respects during the guarantee and the additional warrantee period.

### 3.2 Warrant Support

This shall be applicable as per RFP/Tender terms and conditions of End customer, unless otherwise specified.

### 3.3 Quality of Service, Service Level Agreement and penalty

The purpose of this Service Level Agreement (hereinafter referred to as SLA) is applicable based on Back to Back basis as per Cochin port

#### Penalties

During the AMC period of 5 years, if the system as a whole or any accessory/equipment / item of the system is rendered non-operational a penalty @1% of the AMC amount for the year per week or part thereof will be levied for the non-operational days, the maximum of which shall be limited to 10% of the contract value for that year. Hours of non functionality in different spells will be accumulated to arrive at a day and a week. Day shall mean an English Calendar Day and seven such calendar Days will be a week. The LD amount so deducted shall be in addition to the deduction of AMC amount due to the contractor

### 3.4 Purpose of EOI

Detailed as above

3.5 Solution provider/BA need to implement and manage the Entire system and oversee the overall functioning of the organization's network infrastructure, including planning, design, implementation, and maintenance with failure free environment and without any downtime in operations of COCHIN PORT. **SLA shall be applied as per COCHIN PORT's tender document and corrigendum released, if any on back-to-back basis**

3.6 Bidder may submit their response in the prescribed form of duly signed and stamped for techno commercial bid through Online mode vide email sent to <https://railtel.eNivida.com> , within the stipulated date and time, as mentioned in this EOI document. The Bidder shall accompany necessary documents as prescribed in the Eoi.

### 3.7. Partners may note that this is a single stage, single Packet Bid Interested

3.8. Only those bids shall be opened, which have been submitted within the stipulated time as mentioned in this EOI document with required credentials and EMD.

**3.9. Technical Bid contains following:-****I. Eligibility Criteria**

<b>S.N</b>	<b>Type</b>	<b>Description</b>	<b>Document Required</b>
1	Existence / Origin	The company must be registered in India.	Certificate of Incorporation
2	General	The company must have: I. Valid PAN card. II. Been registered with GST.	I. Copy of PAN Card. II. Copy of GST registration certificate.
3	General	The company should not be blacklisted by any Government institution/ Government PSU	Self-declaration, in case this is discovered to be otherwise, the bidder will be declared ineligible at any stage of the tender.
4	Turnover	The bidder must have total Average Annual Financial Turnover of the tenderer during the last three financial years, ending 31/03/2024 (viz. 2021-22, 2022-23 and 2023-24) shall not be less than Rs.53,28,327/-  Exemption allowed for Govt of India approved startup companies.	Audited Balance Sheet & CA Certificate .  Startup certificate issued by DPIIT.
5	Net Worth	The bidder must have positive net worth in last 3 FY's ending 31st March 2024.  Exemption allowed for Govt of India approved startup companies.	Audited Balance Sheet & CA Certificate  Startup certificate issued by DPIIT.
6	General	Bidder must be in Surveillance business	Documentary proof
7	Empanelment	Bidder must be empanelled with RailTel as Business associate.  OR  BA application should be under evaluation by RailTel.	i) Copy of Empanelment letter or application details for BA with RCIL  ii) If the Bidder is not empanelled with RailTel and has applied for empanelment and issue of letter of empanelment is pending, then Bidder has to submit proof of payment of empanelment fee/EMD or acknowledgement letter of submission of empanelment documents.

8	General	The entire installation should be under guarantee for 2 years. All the CCTV cameras, Racks, Network switches, POE switches, SFP switch, UPS, P2P link, Rack Mount Recorder, HDD, High End work station, professional display & PTZ joy stick controller shall be covered under OEM warranty for 5 years. The Bidder shall submit valid authorized MAF certificate issued by the OEM in the attached format (Annexure-D) along with Tender Reference Number for these items as per RFP	Authorized MAF certificate issued by the OEM
9	General	The Bidder/OEM shall have own/authorized service centre in South India for the past 5 years. The address of the Authorized service centre shall be furnished in the Bid, failing which the Bid will not be considered for evaluation	Authorized service centre details.

10	Experience	<p>a) The Tenderer should be either an Original Equipment Manufacturer (OEM) or an Authorized Dealer / System Integrator of IP CCTV Security cameras. The Authorised Dealer/ System integrator should meet MQC.</p> <p>b) In the case of Authorized Dealer, valid dealership certificate shall be furnished along with the Technical Bid.</p> <p>c) The tenderer should have the experience of successfully carried out similar work as mentioned below, during the last 7 years as on 31/10/2024 to Government Departments/ Reputed Private organizations.</p> <p>1. Three similar completed works each costing not less than Rs.20,00,000/- including GST with execution of minimum 60 cameras.</p> <p>(OR)</p> <p>2. Two similar completed works each costing not less than Rs.30,00,000/- including GST with execution of minimum 80 cameras.</p> <p>(OR)</p> <p>3. One similar completed work costing not less than Rs.40,00,000/- including GST with execution of minimum 100 cameras.</p> <p>—Similar work(s) means —Supply, installation, testing and commissioning of IP based CCTV surveillance systems.</p>	Work orders/Term Sheet/Statement of Work confirming year and area of activity
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**Note:**

- If any of the Bids is found to be incomplete, it will be liable for rejection.
- Bidder is to fill the above annexure and indicate the page numbers of the supporting document in the Proof while submitting response to the eligibility criteria.
- Relevant portions, in the documents submitted in pursuance of eligibility criterion mentioned above, shall be highlighted.
- Bidders must ensure that all required documents have been uploaded/submitted along with the bid to justify his/her eligibility.

**Price quote in the attached format (Annexure 8).**

- Compliance of OEM/Vendors with their MAF's and all mandatory documents asked by COCHIN PORT from OEM/Vendors.
- Unconditional Acceptance of contents the Tender document of COCHIN PORT and any Other/General Document of COCHIN PORT Tender RFP along with corrigendum and addendum.

- iii. Acceptance Letter of Eol
- iv. Annexure Formats as mentioned in this EOI.
- v. All documents mentioned in checklist and annexures of this EOI
- vi. The BA agrees to undertake Warranty, Maintenance contract for a minimum **period as per COCHIN PORT**. Undertaking in this regard is to be submitted along with the technical bid.
- vii. Contract Period Undertaking – As per pertinent tender floated by COCHIN PORT Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of Cochin Port Authority, including 2 years guarantee and thereafter 5 years comprehensive AMC from the date of take over and subjected to the fulfilment of SLA conditions referred above.
- viii. The bid should be duly signed and submitted by Authorized Signatory. The bidder has to submit notarized of non-judicial stamp paper of appropriate value Power of Attorney having authorized signatory's nomination along with board resolution in favour of power of attorney.
- ix. The bidder has to mandatorily submit notarized Annexure-11 on non-judicial stamp paper of requisite value of Rs. 200, else bid shall be summarily rejected.

**3.10.** Prospective bidder's bid evaluation will be done based on above mentioned documents. Bids of those Bidders who submit Technical Documents without OEM/Vendor Name, Make and Model, technical Compliance, and unconditional acceptance of the COCHIN PORT hard Copies, will be summarily rejected.

**3.11.** further complying technical requirement with supporting documents of OEM/Vendor MAF, datasheets, BOQ/BOM (wherever applicable) may be treated as technically qualified partner for Stage-1.

**3.12.** Bidders selected as per Para 3.11 above will be treated as eligible for financial bid opening.

### **3.13 Financial Bid:**

The Annexure 8 of for financial quote to be submitted for evaluation

**3.14 Selection of Bidder:** as per outcome of Clause 3.9 above

The bidder will be selected on the **lowest quote (L-1)** basis for complete 'Scope of Work' as mentioned in the EOI document and Physical documents of technical specifications of COCHIN PORT, subject to the respective overall bid is in compliance to the requirements of this EOI. The partner selected will be termed as 'Commercially Suitable Partner (hereafter referred to as 'CSP')'. It is ascertained, that the final selection of CSP will be on the L-1 basis only. Further, RailTel reserves the right to have negotiation with the CSP if required. However, RailTel reserves the right to select any Bidder irrespective of the ranking in the Bid list without assigning any reasons.

**3.15** The partner selected through this EOI shall be deemed to be responsible for delivering of complete 'Scope of Work' as mentioned in the COCHIN PORT's tender document and subsequent corrigendum. However, RailTel at its discern, may take- up a certain portion / percentage of 'Scope of Work' by communicating to the CSP at any point of time during the engagement period. (The day at which 'CSP' is declared, will mark the start of engagement period. The period will be valid till final outcome of this tender as announced by COCHIN PORT. In case, RailTel comes out to be winner of the COCHIN PORT tender, then the engagement period will get auto-extended to the period RailTel serves COCHIN PORT for the concerned tender, unless terminated earlier by RailTel as per terms and conditions mentioned in this Eol document). In this scenario, commercial engagement with the CSP will be for that portion / percentage only, which has not been taken by RailTel. Accordingly, resultant value of work will be derived on the basis of negotiated (in case) commercial bid of the CSP.

**3.16 RailTel** on the basis of inputs / factors available to it from various resources, past experiences of its ICT projects and on the basis of negotiated (in case) commercial bid of the CSP, will endeavour to place best techno-

commercial bid in response to the pertinent COCHIN PORT's tender. Further relationship with CSP will be based on the outcome pertinent COCHIN PORT's tender.

#### **4 General Requirements and Eligibility Criteria for Bidders**

- 4.1. The interested bidder should be an Empaneled Partner with RailTel on the last date of bid submission of EOI & has to provide relevant documents to qualify as per relevant Clause of this EOI.
- 4.2. The interested bidder should submit Earnest Money Deposit (EMD) if applicable, in the format as mentioned in this EOI document along with the bid.
- 4.3. The interested bidder should be in compliance to insertion of Rule 144(xi) in the GFR, 2017 vide office OM no. 6/18/2019-PPD dated 23-July-2020 issued by Ministry of Finance, Government of India, including revisions.
- 4.4. The interested bidder should submit an undertaking for maintaining of 'Local Content Compliance' and shall submit a certificate mentioning the 'Local Content Percentage' duly signed and stamped by statutory auditor or cost auditor or authorized signatory of the interested partner. This will not be a binding clause in cases where end customer has not asked Local Content Clause/Make in India Clause in their Current RFP.
- 4.5 The bidder has to mandatorily provide all Annexures of this Eoi and corrigendum(s) thereof.**
- 4.6. The interested bidder should not be backlisted by any State / Central Government Ministry / Department / Corporation / Autonomous Body on the last date of submission of EOI.
- 4.7. There should not be any ongoing or past, arbitration case(s) between 'RailTel or Organizations under Indian Railways' and 'Interested Bidder' on the last date of submission of EOI.
- 4.8. The interested bidder shall not have a conflict of interest with one or more bidding parties. Participation of interested bidder(s) with a conflict-of-interest situation will result in the disqualification of all bids in which it is involved. A bidder may be in a conflict of interest with one or more parties if including but not limited to:
  - a. Have controlling shareholders as his/her family members viz. spouse, son, daughter, father, mother or brother etc. in common or;
  - b. 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 interested partner.
- 4.9. The interested bidder should not be seeking/extending/exploring similar arrangements /engagements with any other organization except RailTel, for the COCHIN PORT tender.
- 4.10. The interested partner should have a valid Goods and Service Tax Identification Number (GSTIN), as on the last date of submission of EOI.
- 4.11. In addition to above clauses, bid of interested bidder should be in compliance to terms and conditions and technical requirements of the pertinent COCHIN PORT tender as referred above.

**Note:** The interested bidder should submit duly signed and stamped EOI cover letter as per the format mentioned at Annexure-02 of this EOI document, as unconditional submission of meeting the clauses mentioned above, from Clause 4.1. to Clause 4.11

#### **5. Resources to be Deployed**

- i. The bidder shall carry out all necessary activities during execution of the work and all along thereafter as may be necessary for proper fulfilling of the obligations under the contract.

- ii. Adequate training, required to carry out the activities mentioned in the scope of work above, shall be provided by Bidder to all deployed resources.
- iii. Boarding, lodging, transportation, and all other expenses of the deployed resources are to be borne by bidder,
- iv. The Authority shall be at liberty to object to and require the bidder to remove from the works any person who in his opinion misconducts himself or is incompetent or negligent in the performance of his duties or whose employment is otherwise considered by the Authority to be undesirable. Such person shall not be employed again at works site without the written permission of the Authority and the persons so removed shall be replaced within a week's time by competent substitutes.
- v. The Authority has agreement with the bidder only, it is the responsibility of the bidder to ensure all due diligence is carried out for background verification of resources deployed. And in any case, the Authority will not be responsible for the violation of due diligence or offence committed by the bidder or any of its resources.

## **6 Proposal Preparation and Submission Cost**

- 6.1. The interested partner is responsible for all costs incurred in connection with participation in this EOI process, including, but not limited to, cost incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of proposal, in providing any additional information required by RailTel to facilitate the evaluation process or all such activities related to the bid process. RailTel will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process. This EOI document does not commit to award a contract or to engage in negotiations.

## **7 Amendment to EOI Document**

- 7.1. At any time prior to the deadline for submission of bids, RailTel, may, for any reason can modify the EOI document by an amendment. All the amendments made in the document would be informed by displaying on RailTel's ([www.railtelindia.com](http://www.railtelindia.com)) website only. The interested bidders are advised to visit the RailTel website on regular basis for checking necessary updates. RailTel also reserves the rights to amend the dates mentioned in this EOI for bid process. RailTel may, at its discretion, extend the last date for receipt of EOI response. Individual advices in this connection is not treated as mandatory.

## **8 Bid, PBG and SD Validity Period**

- 8.1. Bid of Interested partners shall remain valid for the period of 150 days from the date of opening the price bid.
- 8.2. RailTel may request for an extension of the period of validity. The validity of the 'EMD', should also be suitably extended if called upon to do so by RailTel. The request and the responses thereto shall be made in writing through e-mail communication only. Further, whenever the bid validity extension is submitted by the interested partner, it should be ensured by interested partner that their PBG (Performance bank Guarantee) and Security Deposit (SD) related to the empanelment should have minimum validity of 150 days from the last date of extended completion period.

## **9 Right to Terminate the Process**

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

## 10 Language of Bid

10.1. The bid prepared by the interested partner and all correspondence and documents relating to the bids exchanged by the bidder and RailTel, shall be written in English Language, provided that any printed literature furnished by the Bidder in another language shall be accompanied by an English translation in which case, for purposes of interpretation of the bid, the English translation shall govern. If any supporting documents submitted are in any language other than English, translation of the same in English language is to be duly attested by the Authorised Signatory of the interested partner.

## 11 Submission of Bid

11.1. The Bidder should take into account any Corrigendum to this EOI document that may have been published before submitting their EOI response. The bid is to be submitted in the mode as mentioned in this EOI document. EOI response submitted in any other mode will not be entertained.

11.2. Bidders in their own interest are advised to submit the EOI response well in time before the last date and hence to avoid any inconvenience at the last moment.

11.3. An Organization / Bidder can submit only 'One EOI Response'. Submission of multiple EOI Response by bidder(s) may lead to rejection of all of its bid.

## 12 Rights to Accept / Reject any or all EOI Response

12.1. RailTel reserves the right to accept or reject any EOI Response, and to annul the bidding process and reject all Bids at any time prior to award of the Contract, without thereby incurring any liability to the affected interested bidder(s), or any obligation to inform the affected Bidders of the ground for RailTel's action.

## 13 Payment Terms

Back-to-back basis as per COCHIN PORT RFP **GEM/20241815639583 dtd 25.11.2024** and as per Payment terms below:

### 13.1 Terms of Payment:

- Payment shall be regulated as detailed below:

The Contractor shall be entitled upon certificates of the Engineer or his nominee to payments in accordance with the following provisions:

1) For supply portion : 75% of the value, as certified by the Engineer or his nominee, of the materials from time to time delivered on the site. Balance 25% after completing the work in all respects, commissioning and handing over the installation to the Employer to the satisfaction of the Engineer and his nominee and his certification.

2) For erection portion :

i) 85% of the value as certified by the Engineer or his nominee, of the installation portion on completion of the erection work under contract, for which payments are claimed.

ii) Balance 15% along with other payments if any, after completing the work in all respects, commissioning and taking over the installation by the Employer to the satisfaction of the Engineer and his nominee and his certification.

8.2 All the interim payments shall be regarded as payment by way of advances against final payment only and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re-erected. Any certificate given by the Engineer or his nominee relating to the work done or materials delivered forming part of such payment, may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to



which it relates is/are in accordance with the contract and specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in any way powers of the Engineer- or his nominee-charge under the contract or any of such payments be treated as final settlement and adjustment of accounts or in any way vary or affect the contract.

8.3 Pending consideration of extension of date of completion interim payments shall continue to be made as herein provided, without prejudice to the right of the department to take action under the terms of this contract for delay in the completion of work, if the extension of date of completion is not granted by the competent authority.

8.4 No further claims shall be made by the Contractor after submission of the final bill and these shall be deemed to have been waived and extinguished.

8.5 Items of the Works for which no rate or price has been entered in will not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.

8.6 All payments to the Contractor under the contract shall unless otherwise stated elsewhere be made to the Contractor in Indian currency through e- payments through

### **13.2 Annual Maintenance Charges as per RFP if applicable.**

The AMC period will start on completion of the mandatory guarantee period of 2 years. A separate order will be issued for the Annual Maintenance Contract, before the completion of the guarantee period of the installation.

#### **Payment for AMC**

a) AMC will start after expiry of the guarantee period. Separate order shall be issued for the AMC on successful completion of guarantee period 2 years.

b) AMC charges shall be released on successful completion of comprehensive maintenance on half yearly basis subject to the certification of Engineer in charge. Providing CCTV Surveillance Arrangements at Various Locations of CoPA(Cochin port)

During the AMC period of 5 years, if the system as a whole or any accessory/equipment / item of the system is rendered non-operational a penalty @1% of the AMC amount for the year per week or part thereof will be levied for the non-operational days, the maximum of which shall be limited to 10% of the contract value for that year. Hours of non functionality in different spells will be accumulated to arrive at a day and a week. Day shall mean an English Calendar Day and seven such calendar Days will be a week. The LD amount so deducted shall be in addition to the deduction of AMC amount

13.3. Documents list required ( as applicable) at the time of payment/invoice submission by selected bidder shall be: -

- Valid Tax Invoice (in Triplicate, where supply is Involved)
- Delivery Challan and e way bill
- Factory Test Report
- QA& COQ inspection certificate duly signed by OEM.
- Inspection Certificate or Approval of waiver for the same as applicable.

- Packaging List
- Purchaser's Inspection certificate
- Consignee receipt
- Warranty certificate of OEM
- Insurance certificate
- A certificate duly signed by the firm certifying that equipment/ materials being delivered are new and conform to technical specification.
- A certificate duly signed by the firm certifying that the equipment/ materials being delivered are complete in all respect for the concerned items for which the payment is being released.

All payments shall be released after sign-off by the COCHIN PORT.

#### **14. Performance Security/Security Deposit**

- The successful bidder is required to furnish Security Deposit within 21 days from the date of issue of Letter of Acceptance (LoA), to guarantee fulfillment of performance and the obligations of the contract, in any one of the following forms:
- **The value of Security Deposit shall be equivalent to 10% of the total contract value for the „SITC of 35 nos. of IP CCTV security cameras at various locations of CoPA".** Out of 10% of the Security Deposit, 5% is in the form of Bank Guarantee from any Commercial Bank and 5% in the form of retention money from the bill.
- In case the Security Deposit is furnished as Bank Guarantee, the same should remain valid for a period of 60 days beyond the completion of guarantee period. Failure to submit security deposit within stipulated period will entitle CoPA to terminate the agreement/cancel the LoA.

14.1. RailTel shall also be entitled to make recoveries from the CSP's bills, PBG or from any other amount due to him, the equivalent value of any payment made to him due to inadvertence, error, collusion, misconstruction or misstatement.

14.2. If the service period / contract value undergo variation PBG also shall be varied accordingly

14.3. During the contract period, RailTel may issue Purchase Order(s) for the additional services ordered by COCHIN PORT (in case) to RailTel. In such scenario(s) also, Clause No. 13.1. to Clause No. 13.4. are to be followed by the CSP.

14.4. In case the COCHIN PORT has sought PBG of the contract in the terms of Indemnity Bond from RailTel, the selected bidder has to provide the equivalent value PBG from scheduled Bank to RailTel. No Indemnity Bond from Selected Bidder will be accepted in lieu of PBG from Scheduled Bank.

14.7. In case COCHIN PORT has sought any other types of PBG, at present or in future or else Integrity Pact PBG (presently or in future), same remain applicable on selected Bidder. The Said PBG will be issued by Selected Bidder from Scheduled Bank favouring RailTel Corporation of India Limited. No Indemnity Bond in lieu of such PBG will be accepted by RailTel.

14.8 Integrity pact in the format if any, as per COCHIN PORT to be provided by the Bidder.

#### **15. Details of Commercial Bid / Financial Bid**

- 15.1. Partner should submit commercial bid strictly as per the format mentioned by COCHIN PORT or in subsequent corrigendum's (if any).
- 15.2. The commercial bid should clearly bring out the cost of the services with detailed break- up of taxes.
- 15.3. The rates mentioned in the commercial bid of the CSP will form basis of commercial transaction between RailTel and bidder.
- 15.4. The quantity of 'Line Items' may vary at the time of placing of Purchase Order or during the Contract Period, as communicated by COCHIN PORT (in case) to RailTel. In such scenarios, the 'Per Unit' cost will be considered to arrive on contractual amount between RailTel and CSP.
- 15.5. It is also possible that COCHIN PORT may surrender / increase, some or all of the quantities of service items ordered to RailTel during the contract period and accordingly the contractual amount between RailTel and CSP shall be considered, at sole discern of RailTel.
- 15.6. It is also possible that during the contract period, COCHIN PORT may raise Purchase Order to RailTel for the line items (and respective quantities) which are not mentioned in the pertinent tender of COCHIN PORT. In such scenario, RailTel at its sole discretion, may extend the scope of the contract with CSP by placing order to COCHIN PORT, on back-to- back basis.
- 15.7. In addition to the Payment Terms, all other Contractual Terms will also be on 'back- to-back' basis between RailTel and CSP, as mentioned in the pertinent COCHIN PORT tender. MAF (Manufacturer's Authorization Form) in the name of RailTel and another MAF in Bidders Name (separately with reference to this EOI) from the OEMs, whose product is mentioned in commercial bid format, should also be ensured by the partner. The MAF format and required content should be in-line with COCHIN PORT tender, if specifically asked by COCHIN PORT in a particular format.

## **16. Duration of the Contract Period**

- 16.1. The contract duration shall be same as of COCHIN PORT contract duration with RailTel until otherwise terminated earlier. Indicative contract duration is 7 Years 6 months. unless otherwise terminated/modified, as mentioned in this EOI document and subject to award of contract to RailTel. The contract duration can be renewed /extended by RailTel at its discern, in case COCHIN PORT extends / RailTel renews services with RailTel by virtue of extending / renewing / new issuance of one or more Purchase Order(s) placed by COCHIN PORT to RailTel.

## **17. Restrictions on 'Transfer of Agreement'**

- 17.1. The CSP shall not assign or transfer its right in any manner whatsoever under the contract / agreement to a third party or enter into any agreement for sub- contracting and/or partnership relating to any subject matter of the contract / agreement to any third party either in whole or in any part i.e., no sub-contracting / partnership / third party interest shall be created.

## **18. Suspension, Revocation or Termination of Contract / Agreement**

- 18.1. RailTel reserves the right to suspend the operation of the contract / agreement, at any time, due to change in its own license conditions or upon directions from the competent government authorities, in such a situation, RailTel shall not be responsible for any damage or loss caused or arisen out of aforesaid action. Further, the suspension of the contract / agreement will not be a cause or ground for extension of the period of the contract / agreement and suspension period will be taken as period spent. During this period, no charges for the use of the facility of the CSP shall be payable by RailTel.

18.2. RailTel may, without prejudice to any other remedy available for the breach of any conditions of agreements, by a written notice as per GCCA of contract or as per CDAC tender condition whichever is issued to the CSP.

RailTel shall terminate/or suspend the contract /agreement under any of the following circumstances:

- a) The CSP failing to perform any obligation(s) under the contract / agreement.
- b) The CSP failing to rectify, within the time prescribed, any defect as may be pointed out by RailTel.
- c) Non adherence to Service Level Agreements (SLA) which RailTel has committed to CDAC.
- d) The CSP going into liquidation or ordered to be wound up by competent authority
- e) If the CSP is wound up or goes into liquidation, it shall immediately (and not more three days) inform about occurrence of such event to RailTel in writing. In such case, the written notice can be modified by RailTel as deemed fit under the circumstances. RailTel may either decide to issue a termination notice or to continue the agreement by suitably modifying the conditions, as deemed fit. It shall be the responsibility of the CSP to maintain the agreed Quality of Service, even during the period when the notice for surrender/termination of contract / agreement is pending and if the Quality of Performance of Solution is not maintained, during the said notice period, it shall be treated as material breach liable for termination at risk and consequent of which CSP's PG related to contract / agreement along with PG related to the Empanelment Agreement with RailTel shall be forfeited, without any further notice.
- f) Breach of non-fulfilment of contract / agreement conditions may come to the notice of RailTel through complaints or as a result of the regular monitoring. Wherever considered appropriate RailTel may conduct an inquiry either Suo- moto or on complaint to determine whether there has been any breach in compliance of the terms and conditions of the agreement by the successful bidder or not. The CSP shall extend all reasonable facilities and shall endeavour to remove the hindrance of every type upon such inquiry. In case of default by the CSP in successful implementation and thereafter maintenance of services / works as per the conditions mentioned in this EOI document, the PG(s) of CSP available with RailTel can be forfeited.

## **19. Dispute Settlement**

19.1 In case of any dispute concerning the contract / agreement, both the CSP and RailTel shall try to settle the same amicably through mutual discussion / negotiations. Any unsettled dispute shall be settled in terms of Indian Act of Arbitration and Conciliation 1996 or any amendment thereof. Place of Arbitration shall be New Delhi.

19.2 The arbitral tribunal shall consist of the Sole Arbitrator. The arbitrator shall be appointed by the Chairman & Managing Director (CMD) of RailTel Corporation of India Ltd.

19.3 All arbitration proceedings shall be conducted in English.

## **20. Governing Laws**

20.1. The contract shall be interpreted in accordance with the laws of India. The courts at New Delhi shall have exclusive jurisdiction to entertain and try all matters arising out of this contract.

**21. Statutory Compliance**

- 21.1. During the tenure of this Contract nothing shall be done by CSP in contravention of any law, act and/ or rules/regulations, there under or any amendment thereof and shall keep RailTel indemnified in this regard.
- 21.2. The Bidder shall comply and ensure strict compliance by his/her employees and agents of all applicable Central, State, Municipal and Local laws and Regulations and undertake to indemnify RailTel, from and against all levies, damages, penalties and payments whatsoever as may be imposed by reason of any breach or violation of any law, rule, including but not limited to the claims against RailTel or its Customer under Employees Compensation Act, 1923, The Employees Provident Fund and Miscellaneous Provisions Act, 1952, The Contract Labour (Abolition and Regulation) Act 1970, Factories Act, 1948, Minimum Wages Act and Regulations, Shop and Establishment Act and Labour Laws which would be amended/modified or any new act if it comes in force whatsoever, and all actions claim and demand arising therefrom and/or related thereto.

**22. Intellectual Property Rights**

- 22.1. Each party i.e., RailTel and CSP, acknowledges and agree that the other party retains exclusive ownership and rights in its trade secrets, inventions, copyrights, and other intellectual property and any hardware provided by such party in relation to this contract / agreement.
- 22.2. Neither party shall remove or misuse or modify any copyright, trade mark or any other proprietary right of the other party which is known by virtue of this EOI and subsequent contract in any circumstances

**23. Severability**

- 23.1. In the event any provision of this EOI and subsequent contract with CSP is held invalid or not enforceable by a court of competent jurisdiction, such provision shall be considered separately and such determination shall not invalidate the other provisions of the contract and Annexure/s which will be in full force and effect.

**24. Force Majeure**

- 24.1. If during the contract period, the performance in whole or in part, by other party, of any obligation under this is prevented or delayed by reason beyond the control of the parties including war, hostility, acts of the public enemy, civic commotion, sabotage, Act of State or direction from Statutory Authority, explosion, epidemic, quarantine restriction, strikes and lockouts (as are not limited to the establishments and facilities of the parties), fire, floods, earthquakes, natural calamities or any act of GOD(hereinafter referred to as EVENT) , provided notice of happenings of any such event is given by the affected party to the other, within twenty one (21) days from the date of occurrence thereof, neither party shall have any such claims for damages against the other, in respect of such non-performance or delay in performance. Provided service under this contract shall be resumed as soon as practicable, after such EVENT comes to an end or ceases to exist.
- 24.2. In the event of a Force Majeure, the affected party will be excused from performance during the existence of the force Majeure. When a Force Majeure occurs, the affected party after notifying the other party will attempt to mitigate the effect of the Force Majeure as much as possible. If such delaying cause shall continue for more than sixty (60) days from the date of the notice stated above, the party injured by the inability of the other to perform shall have the right, upon written notice of thirty (30) days to the other party, to terminate this contract. Neither party shall be liable for any breach, claims, and damages against the other, in respect

of non-performance or delay in performance as a result of Force Majeure leading to such termination.

## **25. Indemnity**

- 25.1. The CSP agrees to indemnify and hold harmless RailTel, its officers, employees and agents (each an "Indemnified Party") promptly upon demand at any time and from time to time, from and against any and all losses, claims, damages, liabilities, costs (including reasonable attorney's fees and disbursements) and expenses (collectively, "Losses") to which the Indemnified party may become subject, in so far as such losses directly arise out of, in any way relate to, or result from:
- a) Any mis -statement or any breach of any representation or warranty made by CSP
  - b) The failure by the CSP to fulfil any covenant or condition contained in this contract by any employee or agent of the Bidder. Against all losses or damages arising from claims by third Parties that any Deliverables (or the access, use or other rights thereto), created by CSP pursuant to this contract, or any equipment, software, information, methods of operation or other intellectual property created by CSP pursuant to this contract, or the SLAs (i) infringes a copyright, trade mark, trade design enforceable in India, (ii) infringes a patent issues in India, or (iii) constitutes misappropriation or unlawful disclosure or used of another Party's trade secrets under the laws of India (collectively, "Infringement Claims"); or
  - c) Any compensation / claim or proceeding by any third party against RailTel arising out of any act, deed or omission by the CSP
  - d) Claim filed by a workman or employee engaged by the CSP for carrying out work related to this agreement. For the avoidance of doubt, indemnification of Losses pursuant to this section shall be made in an amount or amounts sufficient to restore each of the Indemnified Party to the financial position it would have been in had the losses not occurred.
- 25.2. Any payment made under this contract to an indemnity or claim for breach of any provision of this contract shall include applicable taxes.

## **26. Limitation of Liability towards RailTel**

- 26.1. The CSP (SI/BA) liability under the contract shall be determined as per the Law in force for the time being. The CSP shall be liable to RailTel for loss or damage occurred or caused or likely to occur on account of any act of omission on the part of the CSP and its employees (direct or indirect), including loss caused to RailTel on account of defect in goods or deficiency in services on the part of CSP or his agents or any person / persons claiming through under said CSP, However, such liability of the CSP shall not exceed the total value of the contract.
- 26.2. This limit shall not apply to damages for bodily injury (including death) and damage to real estate property and tangible personal property for which the CSP is legally liable.

## **27. Confidentiality cum Non-disclosure**

- 27.1. The Receiving Party agrees that it will not disclose to third party/parties any information belonging to the Disclosing Party which is provided to it by the Disclosing Party before, during and after the execution of this contract. All such information belonging to the Disclosing Party and provided to the Receiving Party shall be considered Confidential Information. Confidential Information includes prices, quotations, negotiated issues made before the execution of the contract, design and other related

information. All information provided by Disclosing Party to the Receiving Party shall be considered confidential even if it is not conspicuously marked as confidential.

27.2. Notwithstanding the foregoing, neither Party shall have any obligations regarding non- use or non-disclosure of any confidential information which:

27.2.1. Is already known to the receiving Party at the time of disclosure:

27.2.2. Is or becomes part of the public domain without violation of the terms hereof;

27.2.3. Is shown by conclusive documentary evidence to have been developed independently by the Receiving Party without violation of the terms hereof:

27.2.4. Is received from a third party without similar restrictions and without violation of this or a similar contract.

27.3 The terms and conditions of this contract, and all annexes, attachments and amendments hereto and thereto shall be considered Confidential Information. No news release, public announcement, advertisement or publicity concerning this contract and/or its contents herein shall be made by either Party without the prior written approval of the other Party unless such disclosure or public announcement is required by applicable law.

27.4 Notwithstanding the above, information may be transmitted to governmental, judicial, regulatory authorities, if so, required by law. In such an event, the Disclosing Party shall inform the other party about the same within 30 (thirty) Days of such disclosure.

27.5 This Confidentiality and Non- Disclosure clause shall survive even after the expiry or termination of this contract.

## **28 Assignment**

28.1 Neither this contract nor any of the rights, interests or obligations under this contract shall be assigned, in whole or in part, by operation of law or otherwise by any of the Parties without the prior written consent of each of the other Parties. Any purported assignment without such consent shall be void. Subject to the preceding sentences, this contract will be binding upon, inure to the benefit of, and be enforceable by, the Parties and their respective successors and assigns.

## **29 Insurance**

The CSP shall agree to take insurances to cover all the elements of the project under this EOI including but not limited to Manpower, Hardware, Software and Services etc. as per COCHIN PORT tender specified terms.

## **30 Exit Management**

### **30.1 Exit Management Purpose**

30.1.1 This clause sets out the provision, which will apply during Exit Management period. The parties shall ensure that their respective associated entities carry out their respective obligation set out in this Exit Management Clause.

30.1.2 The exit management period starts, in case of expiry of contract, at least 03 months prior to the date when the contract comes to an end or in case of termination contract, on the date when the notice of termination is sent to the CSP. The exit management period ends on the date agreed upon by RailTel or Three (03) months after the beginning of the exit management period, whichever is earlier.

### 30.2 Confidential Information, Security and Data:

CSP will promptly, on the commencement of the exit management period, supply to RailTel or its nominated agencies the following (if asked by RailTel in writing):

30.2.1 Information relating to the current services rendered and performance data relating to the performance of the services; documentation relating to the project, project's customized source code (if any); any other data and confidential information created as part of or is related to this contract;

30.2.2 All other information (including but not limited to documents, records and agreements) relating to the services reasonably necessary to enable RailTel and its nominated agencies, or its replacing vendor to carry out due diligence in order to transition the provision of the services to RailTel or its nominated agencies, or its replacing vendor (as the case may be).

30.3 Employees : Promptly on reasonable request at any time during the exit management period, the CSP shall, subject to applicable laws, restraints and regulations (including in particular those relating to privacy) provide RailTel a list of all employees (with job titles and communication address), dedicated to providing the services at the commencement of the exit management period; To the extent that any Transfer Regulation does not apply to any employee of the CSP, RailTel or the replacing vendor may make an offer of contract for services to such employees of the CSP and the CSP shall not enforce or impose any contractual provision that would prevent any such employee from being hired by RailTel or any replacing vendor.

30.4 Rights of Access to Information: Besides during the contract period, during the exit management period also, if asked by RailTel in writing, the CSP shall be obliged to provide an access of information to RailTel and / or any Replacing Vendor in order to make an inventory of the Assets (including hard software / active / passive), documentations, manuals, catalogues, archive data, Live data, policy documents or any other related material.

**Note:** RailTel at its sole discern may not enforce any or all clauses / sub-clauses under the

'Exit Management' clause due to administrative convenience or any other reasons as deemed fit.

### 31. Waiver

31.1. Except as otherwise specifically provided in the contract, no failure to exercise or delay in exercising, any right, power or privilege set forth in the contract will operate as a waiver of any right, power or privilege.

### 32. Changes in Contract Agreement

No modification of the terms and conditions of the Contract Agreement shall be made except by written amendments signed by the both CSP and RailTel.



**ANNEXURE 1****FORMAT FOR PROJECT EXPERIENCE CITATIONS**

<b>Sl. No.</b>	<b>Item</b>	<b>Bidder's Response</b>
1	Name of Bidder entity	
2	Assignment Name	
3	Name & Address of Client	
4	Approximate Value of the Contract (in INR Crores)	
5	Duration of Assignment (months)	
6	Start Date (month/year)	
7	Completion Date (month/year)	
8	Narrative description of the project	
9	Details of Work that defines the scope relevant to the	
10	Documentary Evidence attached	

Signature of Bidder .....

Name: .....

Designation .....

Place: .....

Date: .....

Seal of BA Organization

**ANNEXURE 2****EOI COVER LETTER**

(On Organization Letter Head)

EOI Ref No:

Date:

To,

The Joint General Manager (ERS)

RailTel Corporation India Limited,

Kerala Territory Office,

1<sup>st</sup> Floor, Eastern Entry Tower

Ernakulam South Railway Station

Ernakulam – 682016

COCHIN PORT Tender **Ref. No.: GEM/20241815639583 dtd 25.11.2024**; latest amendment/ Corrigendum / clarifications. **Floated on: Gem portal (<https://gem.gov.in/>)**

Dear Sir/ Madam

1. I, the undersigned, on behalf of M/s ....., having carefully examined the referred EOI offer to participate in the same, in full conformity with the said EOI and all the terms and conditions thereof, including corrigendum issued till last date of submission of EOI. It is also undertaken and submitted that we are in abidance of Clause 4 of EOI.
2. I agree to abide by this Proposal, consisting of this letter, our Pre-qualification, Technical and Commercial Proposals, for a period of 150 days from the date fixed for submission of Proposals as stipulated in the EOI and modifications resulting from contract negotiations, and it shall remain binding upon us and maybe accepted by you at any time before the expiration of that period.
3. I acknowledge that the Authority will be relying on the information provided in the Proposal and the documents accompanying the Proposal for selection of the Commercially Suitable Partner (CSP) for there for said Service, and we certify that all information provided therein is true and correct; nothing has been omitted which renders such information misleading; and all documents accompanying the Proposal are true copies of their respective originals.
4. I undertake, if our Bid is accepted, to commence our services as per scope of work as specified in the contract document.
5. Until a formal Purchase Order or Contract is prepared and executed, this Bid and supplement / additional documents submitted (if any), together with your written acceptance thereof in your notification of award shall constitute a binding contract between us.

6. I hereby undertake and give unconditional acceptance for compliance of all terms & conditions of COCHIN PORT RFP issued vide Ref. No.: GEM/20241815639583 dtd 25.11.2024; latest amendment/ Corrigendum / clarifications. Floated on: Gem portal (<https://gem.gov.in/>), against this EOI based customer's requirement.
7. I hereby undertake that there will be no deviation from the Terms and Conditions of EOI and COCHIN PORT RFP issued vide Ref. No.: GEM/20241815639583 dtd 25.11.2024; latest amendment/ Corrigendum / clarifications. Floated on: Gem portal (<https://gem.gov.in/>)

Signature of Bidder .....

Name: .....

Designation .....

Place: .....

Date: .....

Seal of BA Organization

**ANNEXURE 3**  
**(Local Content Compliance)**

EOI Ref. No:

Date:

To,

The Joint General Manager (ERS)

RailTel Corporation India Limited,

Kerala Territory Office,

1<sup>st</sup> Floor, Eastern Entry Tower

Ernakulam South Railway Station

Ernakulam – 682016

COCHIN PORT Tender Ref. No.: GEM/20241815639583 dtd 25.11.2024; latest amendment/ Corrigendum / clarifications. Floated on: Gem portal (<https://gem.gov.in/>)

Dear Sir / Madam

I, the undersigned, on behalf of M/s ....., hereby submits that our technical solution for the 'Scope of Work' mentioned under the EoI document is in compliance of local content requirement and makes us equivalent to 'Class-I local supplier' / 'Class-II local supplier' (mention whichever is applicable) for the EoI under reference, as defined under the order No. P-45021/2/2017-PP(BE-II) dt. 04-June-2020 issued by Ministry of Commerce and Industry, Govt. of India.

I hereby certify that M/s .....fulfils all requirements in this regard and is eligible to be considered and for the submitted bid Local Content Percentage is % (write in figures as well as in words).

I hereby acknowledge that in the event of acceptance of bid on above certificate and if the certificate is found to be false at any stage, the false certificate would be a ground for immediate termination of contract and further legal action in accordance with the Law, including but not limited to the encashment of Bank Guarantee related to Empanelment and Performance Bank Guarantee (PBG) and Security deposit (SD), as available with RailTel, related to this EoI. Signature of Authorized Signatory.

Signature of Bidder .....

Name: .....

Designation .....

Place: .....

Date: .....

Seal of BA Organization

**ANNEXURE 4****CHECKLIST OF DOCUMENTS FOR BID SUBMISSION**

COCHIN PORT Tender Ref. No.: GEM/20241815639583 dtd 25.11.2024; latest amendment/ Corrigendum / clarifications. Floated on: Gem portal (<https://gem.gov.in/>)

Sl. No.	Document
1	EOI Cover Letter (Annexure-02)
2	Technical compliance sheet
3	Price bid
4	Local Content Compliance & Percentage Amount (annexure-03)
5	<b>TECHNICAL BID COVER LETTER</b>
6	<b>COMMERCIAL BID COVER LETTER</b>
7	EMD as per EOI document
8	This EOI copy duly Signed and Stamped by the Authorized Signatory Of Bidder
9	All Annexure/ Appendices/Formats/ Declarations as <b>per COCHIN PORT Tender</b> Ref. No.: GEM/20241815639583 dtd 25.11.2024 addressing to RailTel.
10	Compliance of eligibility criteria related documents as per Clause 3
11	Any relevant document found suitable by bidder

**Note:**

1. The technical bid should have a 'Index' at the starting and all pages of bid should be serially numbered and should be traceable as per the 'Index'.
2. All the submitted documents should be duly stamped and signed by the Authorized Signatory at each page.
3. The above checklist is indicative only. RailTel may ask for additional documents from the bidders, as per the requirement

Signature of Bidder .....

Name: .....

Designation .....

Place: .....

Date: .....

Seal of BA Organization

**ANNEXURE 5****FORMAT FOR TECHNICAL BID COVER LETTER**

(On Company Letter Head)

To,

The Joint General Manager (ERS)

RailTel Corporation India Limited,

Kerala Territory Office,

1<sup>st</sup> Floor, Eastern Entry Tower

Ernakulam South Railway Station

Ernakulam – 682016

Sub: Submission of the response to the Tender No. <<tender id>>**Request for Proposal for the Selection of Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of Cochin Port Authority, including 2 years guarantee and thereafter 5 years comprehensive AMC.** We, the undersigned, offer to provide services for Request for Proposal for Supply of ISP hardware and Software of Kerala Fibre Optic Network for COCHIN PORT in response to the request for proposal dated <insert date> and tender reference no <> **“Request for Proposal for Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of Cochin Port Authority, including 2 years guarantee and thereafter 5 years comprehensive AMC”** by COCHIN PORT. We are hereby submitting our proposal online, which includes the pre-qualification, technical bid, and commercial bid.

We hereby declare that all the information and statements made in this technical bid are true and accept that any misinterpretation contained in it may lead to our disqualification.

We undertake, if our proposal is accepted, to initiate the implementation services related to the assignment not later than the date indicated in this tender.

We agree to abide by all the terms and conditions of the RFP and related corrigendum(s)/ addendum(s). We would hold the terms of our bid valid for 150 days from the date of opening of the commercial bid as stipulated in the RFP. We hereby declare that as per RFP requirement, we have not been black listed/ debarred by any Central/ State Government and we are not the subject of legal proceedings for any of the foregoing.

We understand you are not bound to accept any proposal you receive.

Signature of Bidder .....

Name: .....

Designation .....

Place: .....

Date: .....

Seal of BA Organization

**ANNEXURE 6****FORMAT FOR COMMERCIAL BID COVER LETTER**

To,  
The Joint General Manager (ERS)  
RailTel Corporation India Limited,  
Kerala Territory Office,  
1<sup>st</sup> Floor, Eastern Entry Tower  
Ernakulam South Railway Station  
Ernakulam – 682016

Dear Sir,

We, the undersigned Bidder, having read and examined in detail all the tender documents with respect to **Request for Proposal (RFP) for Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of Cochin Port Authority, including 2 years guarantee and thereafter 5 years comprehensive AMC**, do hereby propose to provide services as specified in the tender reference No. TENDER NO: **GEM/20241815639583 dtd 25.11.2024**

Price and Validity

- a) All the prices mentioned in our bid are in accordance with the terms & conditions as specified in the RFP. The validity of bid is 8 months from the date of opening of the commercial bid.
- b) We are an Indian firm and do hereby confirm that our prices are inclusive of all duties, levies etc., excluding GST.
- c) We have studied the clause relating to Indian Income Tax and hereby declare that if any income tax, surcharge on income tax, professional and any other corporate tax is altered under the law, we shall pay the same.

Unit rates: We have indicated in the relevant schedules enclosed, the unit monthly rates for the purpose of accounting of payments as well as for price adjustment in case of any increase / decrease from the scope of work under the contract.

**Deviations:**

We declare that all the services shall be performed strictly in accordance with the RFP irrespective of whatever has been stated to the contrary anywhere else in our bid. Further, we agree that additional conditions, if any, found in our bid documents, shall not be given effect to. We had remitted an EMD as specified in the tender document terms.

**Tender pricing:** we further confirm that the prices stated in our bid are in accordance with your instruction to bidders included in tender documents.

**Qualifying data:** we confirm having submitted the information as required by you in your instruction to bidders. In case you require any other further information/ documentary proof in this regard before evaluation of our tender, we agree to furnish the same in time to your satisfaction.

**Bid price:** we declare that our bid price is for the entire scope of the work as specified in the RFP. These prices are indicated in annexure-commercial bid format attached with our tender as part of the tender.

**Performance bank guarantee and Security Deposit:** we hereby declare that in case the contract is awarded to us, we shall submit the performance bank guarantee. We hereby declare that our tender is made in good faith, without collusion or fraud and the information contained in the tender is true and correct to the best of our knowledge and belief. We understand that our tender is binding on us and that you are not bound to accept a tender you receive.

Signature of Bidder .....

Name: .....

Designation .....

Place: .....

Date: .....

Seal of BA Organization



**ANNEXURE 7****TECHNICAL COMPLIANCE SHEET**

The Service/OEM/MAKE specified are based on the existing network requirement for the present scope of work. This shall be followed as per the special condition of contract as per the relevant conditions of special conditions of contract as appended as per RFP back to basis.

**GENERAL SPECIFICATIONS FOR CCTV CAMERAS**

No.	Features	Minimum Specifications	Compliance Y/N
1	LOCATION	HIGHLY CORROSIVE MARINE ATMOSPHERE	
2	Power Supply	HPoE:IEEE802.3bt, Class6, Type3 or AC power adaptor)	
3	Operating Frequency	50 Hz	
4	Operating Conditions	Temp: upto 55°C , Humidity 10–100% RH or better	
5	Wide Dynamic Range	True 120dB or better	
6	Connectors	RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE	
7	Day & Night Operation	Automatically removable infrared-cut filter	
8	Backlight compensation	Adjustable	
9	Video Compression	H.265/H.264: Main/Baseline/High, MJPEG or better	
10	Video streams	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG	
11	Audio Streaming	Input and Output (Two way)	
12	Supported protocol	IPv4, IPv6 , HTTP, HTTPS,SSL/TLS, FTP, SMTP, Bonjour, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS/DDNS, RTSP, RTP, SRTP, TCP, UDP, IGMP, ICMP, RTCP, DHCP, ARP, LLDP, UPnP, NTP, SSH, QoS etc.	
13	Application Programming Interface	ONVIF Profile S,G,T,M API support required for integration with third party software	
14	Edge Storage	Support for Micro SD/SDHC/SDXC 512 GB or better	
15	Memory	Minimum 2 GB RAM, 512 MB Flash	
16	Certifications	CE , FCC, UL, BIS	
17	Compliance	BIS, NDAA compliant.	

18	Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication (EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2) Device Certificate Secure by default certificate HTPM	
		Secure OS/Boot/Storage Verify firmware forgery Cyber Security assurance program UL CAP(UL 2900-1)	
19	Essential features	Motion Detection, Loitering, Tampering, Electronic Image Stabilization, Built In Heater, FAN & Temperature Control, Defog, Auto tracking	
20	Alarm Events	File Upload via FTP and E-mail, Notification via E-mail, SD/SDHC/SDXC or NAS recording at event triggers, Alarm output PTZ Preset	
21	Analytics	Defocus detection, Directional detection, Fog detection, Face detection, Motion detection, Digital Auto tracking, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Sound classification, Shock detection	
22	Cyber security	OEM shall have Global cyber security certifications - ETSI EN 303 645	
23	Firmware Upgrade	The firmware upgrade shall be done through web interface. The firmware shall be available free of cost and shall provide long term support track for cyber security updates	
24	Enclosure	IP67/66, NEMA 4X and IK10 rated casing	
25	Standard	Any component/hardware/parts/assembly/firmware used in offered solution must not comply to protocols like GB 28181, GB/T-28181-2011, GBT-28181/2011 standards	
26	MAC address	Equipment should provide MAC ids of the quoted products; the MAC address of the proposed equipment must be registered in the name of the OEM only. The Intellectual Property Rights (IPR) of equipment (CCTV camera) Must Not Reside in any Land and Border Country	
27	Service Centre	OeM/Bidder should have own/authorised service centre in South India for past 5 years	
28	OEM Warranty	Minimum of 5 Years	

#### 1. 5 MP OUTDOOR BOX TYPE MOTORISED VF IR CAMERA

No.	Features	Minimum Specifications	Compliance Y/N
1	Image sensor	1/ 2.8" progressive scan CMOS or better	

2	Lens	4 mm-9 mm(+/- 1 mm) or better with Motorized Varifocal Lens. Type -P-Iris or better	
3	Minimum Illumination	Colour: 0.04 lux(F1.3, 1/30 sec, 30 IRE) B/W: 0.004 lux(F1.3, 1/30 sec, 30 IRE), 0 lux(IR LED on) or better	
4	Resolution	5 MP (2560x1920 to 320x240) or better	
5	Max. Frame rate	25 FPS or better @ all resolutions	
6	IR illumination	40 Metres or better	
7	Electronic Shutter Speed	Automatic, Manual (2 to 1/12000 sec) or better	
8	Pan/Tilt/Zoom	Digital PTZ, digital zoom( $\pm 175^\circ$ pan, $\pm 90^\circ$ tilt, $\pm 175^\circ$ azimuth) or better	
9	Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, white balance, day/night threshold, tone mapping, exposure mode, exposure zones, motion-adaptive exposure, defogging, barrel distortion correction, compression, orientation: auto, $0^\circ$ , $90^\circ$ , $180^\circ$ , $270^\circ$ including Corridor Format, mirroring of images, dynamic text and image overlay, polygon privacy masks Scene profiles: forensic, vivid, traffic overview	

## **2. 2 MP 30 X OUTDOOR TYPE PTZ CAMERA**

No.	Features	Technical Specification	Compliance Y/N
1	Image Sensor	1 / 2.8 inch progressive scan CMOS or better	
2	Lens	Focal length : 4.5~135 mm or better Autofocus, DC Auto Iris or better	
3	Minimum Illumination	Color: 0.035 Lux (F1.6) B/W: .0195 Lux (IR LED On) or better	
4	Pan/Tilt/Zoom	Pan: $360^\circ$ endless, Tilt: $-90^\circ$ to $+90^\circ$ , Zoom: 31x optical zoom, 12x digital zoom	
5	Shutter Speed	2 s to 1/12000 s or better	
6	Image Resolution	1920x1080p (HDTV 1080p) to 320x240	
7	IR illumination	400 Mtr or better	
8	Frame rate	Upto 50 FPS in all resolutions	
9	Image settings	Compression, color, brightness, sharpness, white balance, exposure control, exposure zones, image freeze on PTZ, scene profiles, rotation, electronic image stabilization (EIS)a, defogging, contrast, local contrast, autofocus, Forensic WDR: Up to 120 dB depending on scene, 32 individual	

		polygon	
		privacy masks including mosaic and chameleon privacy masks	

**1. OUTDOOR TYPE 2 MP ANPR / ZOOM TYPE BOX CAMERA**

No.	Features	Minimum Specifications	Compliance Y/N
1	Image sensor	1/ 2.8" progressive scan RGB CMOS or better	
2	Lens	5~50 mm Varifocal Lens With minimum of 10xOptical zoom or better as per requirement - Auto-Iris or better	5.2~62.4mm(12x) zoom(digital 32x, total 384x zoom)
3	Minimum Illumination	Colour: 0.16 lux at 50 IRE F1.4 B/W: 0.03 lux at 50 IRE F1.4, 0 lux with IR illumination on	
4	Resolution	2 MP -1920x1080 HDTV 1080 P to 320x240 or better	
5	Frame rate	Minimum of 50 FPS in all resolution.	
6	Video Streams	1920 x 1080@50/60 FPS(2 MP)	
7	IR illumination	40 Metres or better.	
8	Shutter speed	2~1/12,000 sec or better	
9	Image Settings	Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, defogging, white balance, day/night threshold, exposure mode, exposure zones, compression, mirroring of images, electronic image stabilization, barrel distortion correction, text and image overlay, dynamic text and image overlay, privacy masks Rotation: auto, 0°, 180° Scene profiles: license plate, forensic, vivid, traffic overview	
10	Event Triggers	Analytics, edge storage events, Supervised external input, virtual inputs through API, shock detection	
11	Event Actions	Pre- and post-alarm video buffering File upload: FTP, SFTP, HTTP, HTTPS, network share and email, Notification: email, HTTP, HTTPS, TCP and SNMP trap	

12	Built-In Analytics	Motion Detection, Tampering, Electronic Image Stabilization, Object classes: humans, vehicles (types: cars, buses, trucks, bikes), line crossing, object in area, time in area, object counting, Loitering	
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#### 4. 6 MP INDOOR TYPE FISH EYE CAMERA

No.	Features	Minimum Specifications	Compliance Y/N
1	Image Sensor	1/1.8" progressive scan CMOS or better	
2	Lens	1.6 mm or better- Fisheye, Single panorama, Double panorama, Quad view	
3	Minimum illumination	Color: 0.1 lux F1.6 or better B/W : 0 lux IR LED ON	
4	Resolution	6 MP or better	
5	Maximum Frame Rate	H.264/H.265 : 25fps@2048x2048(50Hz) MJPEG : Max 15fps	
6	Shutter speed	2~1/12,000 sec or better	
7	Digital Image Stabilization	Off / On (Optional)	
8	Defog	Off / Auto / Manual (Optional)	
9	Motion Detection	Off / On Min 6 zones	
10	Privacy Masking	Off / On Min 3 zones	
11	Angle of view:	H: 182° (Wide) V: 182°, D: 182° or better	
12	Image settings	Saturation, contrast, brightness, sharpness, local contrast, tone mapping, white balance, day/night threshold, exposure mode, exposure zones, compression, mirroring, dynamic text and image overlay, polygon privacy mask	

#### 5. VIDEO MANAGEMENT SOFTWARE

No	Feature Description	Compliance (Yes/No)
1	The Video Management System (VMS) software shall be used to view live and recorded video from capture cards and IP devices connected to local and wide area networks. The VMS software shall have a client/server-based architecture that can be configured as a standalone VMS system with the client software running on the server hardware and/or the client running on any network-connected TCP/IP workstation. Multiple client workstations shall be capable of simultaneously viewing live and/or recorded video from one or more servers. Multiple servers shall also be able to simultaneously provide	

	live and/or recorded video to one or more workstations.	
2	The VMS shall be supplied with minimum 25 nos. of thick clients and 10 mobile clients	
3	The Video Management System (VMS) shall be a software package for comprehensive management of live and recorded video, and associated audio and data.	
4	<b>General Functionality – The VMS shall possess the following general characteristics</b>	
4.1	The VMS shall provide effective monitoring of video from IP cameras and encoding devices, two-way audio and data in real time over local and wide area networks	
4.2	The VMS supports interactive and multi-level mapping	
4.3	The single-screen administration across multiple servers and systems, including:	
4.3.1	It shall support global configuration and monitoring of camera, encoder, and storage settings across the enterprise	
4.3.2	It supports simultaneous administration of all users on multiple servers	
4.3.3	It supports configuration of user authentication using LDAP/Active Directory features of the network	
4.3.4	It supports e-mail / SMS notifications	
4.4	IP address can be assigned manually/automatic for cameras	
4.5	The VMS should support at least 500 Cameras or Encoders from different Manufacturers	
4.6	The client software allow remote access to live and recorded video, including access from mobile devices and support simultaneous access to video from multiple servers	
4.7	The VMS should support 2-way audio communication between server, client, and camera	
4.8	Suspect Tracking : The VMS should provide forensic search operation based on the powerful attribute search feature. The operator can select any person in the camera field of view and search for the appearance of the selected person based on the attire attributes in the selected cameras for the selected duration. The attribute search should show persons with matching attributes in a grid. It should be possible to click on any match to view the playback video of that instant.	
5	Architecture	
5.1	The VMS shall have a client/server-based architecture that can be configured as a standalone VMS with the client software running with equal functionality on the server hardware and/or the client running on any network-connected TCP/IP workstation.	
5.2	The VMS shall record and retrieve video, audio and alarm data and provide it to the VMS clients upon request.	
5.3	The Client Characteristics shall be as per following:	

5.3.1	The Client Software View live video and audio, recorded video and audio and be able to configure the complete system all from a single application.	
5.3.2	The Client Software will have full compatibility with all available features of the VMS server software	
5.3.4	The Client Software shall have Add and Remove features based on the permissions of the user and the licensed functionality	
5.4	The Web Client shall have following features:	
5.4.1	The Web Client can view Live and Recorded Video	
5.4.2	The Web Client can control Pan-Tilt-Zoom movement for PTZ Cameras	
5.4.3	It can activate triggers	
5.4.4	It can get connected with multiple VMS Servers simultaneously	
5.5	The Mobile Client shall have following characteristics:	
5.5.1	The mobile application shall support Apple IOS/ Google Android/ Microsoft Windows Mobile operating systems	
5.5.2	It can remotely view Live and Recorded Video from any Video Server	
5.5.3	The web application should support HLS and MJPEG streaming.	
5.5.4	It can monitor events configured by the Client	
5.5.5	The web service supporting the mobile application shall size the video stream to accommodate both low bandwidth and high bandwidth networks.	
5.6	The VMS software shall allow the user to have any combination of VMS client applications running on any of the supported operating systems and be able to connect to any of the VMS servers running on any of the supported operating systems. Hence, Multiple client workstations shall be capable of simultaneously viewing live and/or recorded video from one or more servers.	
5.7	The VMS software shall have the capability to run multiple client applications simultaneously on one workstation with multiple monitors and at least 12 monitors shall be configurable on a single workstation with one (1) client application running on each monitor.	
5.8	The VMS server software shall have the ability to be installed on an IP edge device—such as an IP camera or encoder that allows for 3rd party applications—allowing the device to serve as both a server and IP video recording device	
6	Video Streaming	
6.1	Video formats supported: MJPEG, MPEG-4, H.264, H.265	

6.2	Each video stream shall have the ability to be recorded, viewed live, saved to views, exported and available in search and playback.	
6.3	Streams shall be individually configurable for recording schedules and storage rules	
6.4	Multi-streaming – The VMS shall allow the setting of multiple, independent video streams from the IP camera, each configurable for frame rate, resolution and quality level.	

<b>7</b>	<b>Recording</b>	
7.1	The Recording should be continuous, uninterrupted and unattended recording of all video and audio transmitted to the VMS, including during times of administration and configuration of any feature	
7.2	The VMS should enhance the videos received from the cameras by adjusting hue, saturation, contrast, brightness, sharpness, IRIS parameters with automatic or manual focus adjustment.	
7.3	The system shall allow to configure each video input's recording time on an hourly basis, to further allow the user to schedule when to record on motion, when to record on event and when to not record	
7.4	The video file shall contain the data of the video, audio, and associated metadata.	
7.5	The index file shall contain the index of the metadata from the network device. When the VMS searches for video, it shall retrieve and display the information in the index files.	
7.6	A bookmarking feature shall allow the tagging, naming, and retention of video clips. The VMS shall bookmark the display layout with selected distribution of cameras across the panel with a mix of live and archived video.	
7.7	The events dashboard should be available with multiple filter parameters such as - by camera, by use case, by camera groups, and the easily selectable duration such as today, last 7 days, last 30 days, and calendar widget, etc.. Reports should be exported in formats such as excel and CSV. The dashboard should also have the graphical representation of the reports in terms of the bar charts and pie charts.	
7.8	The VMS shall support a mix of multiple storage technologies such as local storage/ DAS/ SAN/ NAS or hybrid	
7.9	The VMS shall support configurable —at mostll rules that will automatically delete video for a camera after a specified amount of time. The VMS also shall support configurable —at leastll rules that will delete newer video on other cameras to preserve older video from cameras with an —at leastll rule specified.	
<b>8</b>	<b>Video Archiving</b>	



8.1	The VMS shall provide for the archival of video, audio, and data files, as determined by rules, events, or manual selection. Each archive target has its own set of rules for what cameras and video are archived and when.	
8.2	The VMS shall support CIFS and NFS network shares for archive target locations. It shall be able to archive video to multiple locations and base the archive on camera, event type or an archive schedule.	
8.3	VMS shall be able to archive continuously or on a scheduled basis like weekly schedule and multiple schedules may be combined to derive specific schedule.	
9	<b>Events</b>	
9.1	<b>The VMS should support following Events</b>	
9.1.1	Video motion, critical video data and Incident Video data.	
9.1.2	Video loss of analog video signals	
9.1.3	Device, Server and System Health	
9.1.4	IP camera connection	
9.1.5	Analytics Rule	
9.2	The VMS should support actions on events like Record Video, Output Trigger, Send an E-mail supporting SSL and TLS protocols for encrypted communications. And support AES128 encryption for the communication.	
9.3	The VMS shall call a PTZ Camera Preset as action on events	
9.4	The VMS client shall be configurable to automatically switch views on any event within the event monitoring function.	
10	<b>Search and Playback</b>	
10.1	The VMS can search and play back recorded video, audio and events from VMS servers	
10.2	The VMS shall search and play back video from multiple cameras simultaneously in a synchronized multi-camera layout along with search recorded video based on time, date, video source and image region, with results displayed as both a clickable timeline	
10.3	The VMS shall perform a visual thumbnail search, selecting one image per camera per set time period and can play video from selected image along with zoom in to a time range around selected image	
10.4	The Archived video shall be seamlessly searched during any video search, eliminating the need for a user to separately search the archive location.	
11	<b>Video Information Display</b>	
11.1	The VMS shall have a live display mode, wherein a user shall be able to view live video, live audio and alarm information.	
11.2	The VMS client must feature adaptive bit rate adjustment to conserve bandwidth, displaying cameras in full resolution when viewed individually and switching to lower resolution when in matrix view.	

11.3	The VMS shall allow viewing of cameras in logical groups and preset views.	
11.4	The VMS shall be able to automatically cycle through two or more saved views to create a video tour, with a configurable dwell time for each view.	
11.5	The VMS shall support the use of a panoramic lens on an analog or IP camera. The VMS client shall de-warp the image on both live and recorded video.	
11.6	The VMS shall allow the customization of the user interface to display software (soft) triggers and initiate actions.	
11.7	The VMS shall provide the ability to instantly push selected cameras, layouts, tours, groups or entire views to another client monitor, such as a public view monitor or a video wall.	
11.8	The VMS shall support overlay controls which appear when hovering over a camera in live view :	
	Appearance: text color, font, style, location, camera name, camera no.	
	Control Types: audio inputs and outputs, digital zoom	
11.9	The VMS shall be able to display the following additional system information:	
	a) users currently logged in to the system	
	b) system log containing a detailed history of system processes	
11.10	The VMS shall support display of notifications to the user for common setup tasks that should be performed, including:	
	a) Configuring motion on all cameras	
	b) Changing the default password	
	c) Configuring email notifications	
	d) Configuring of multi-streaming	
	e) Time delta between server and camera	
12	PAN, TILT & ZOOM	
12.1	The VMS shall allow control of PTZ cameras to authorized users and be used to maneuver and zoom a PTZ camera at adjustable speed.	
12.2	The VMS shall allow following methods of controlling a PTZ camera to be available:	
12.2.1	PTZ graphics control windows	
12.2.2	live graphic overlay PTZ control icons	
12.2.3	keyboard control (up, down, left, right arrows; page up, page down for zoom)	
12.2.4	PTZ presets	
12.2.5	digital PTZ	
12.2.6	USB joystick	

13	Mapping	
13.1	The VMS shall have a map capability, accessible to users with the appropriate permission levels.	
13.2	The map displayed video sources and their status, alarm status, multi-layer, hierarchical maps including static and GIS.	
13.3	The VMS shall support embedded maps/ GIS maps/ online maps	
13.4	The VMS should show event notification from the cameras on the map itself. The operator should be able to click on the event notification of a particular camera on the map and the VMS should open the event window on the operator screen.	
14	Export	
14.1	The VMS should allow export of a single video clip or multiple clips with selected duration to a cart. For downloading a single clip, it should have encryption option for the exported clip and should ask to select the export format such as AVI/ MJPEG/ MP4 / AVF format	
14.2	Export file formats supported: .exe, .avi, .ps, .mov, .psx	
14.3	The VMS standalone player shall be able to authenticate that the video has not been tampered with using a AES256 bit encryption	
15	Administration & Configuration	
15.1	The VMS system can authenticate the User's Permission by Active Directory or LDAP	
15.2	The VMS system can allow for a user's permissions to be configured across multiple servers from a single screen	
15.3	The VMS system shall record an audit trail of when users log in that shows what changes they have made, what video they have viewed and what they have exported	
15.4	The VMS software shall provide a configuration option to require 2 users enter unique passwords to authorize tasks involving the viewing of video.	
16	Reporting	
16.1	The VMS provides color coded status of servers, cameras, and unacknowledged events in the following categories in list or chart format:	
16.1.2	Critical as 1) server or camera device not detected and 2) event occurring and unacknowledged	
16.1.3	Warning as 1) Health warning on server (such as temperature, storage alarm, archive alarm, CPU fan),	
	2) Server license subscription expiring soon, 3) Event unacknowledged but open, 4) Event unacknowledged but closed	
16.1.4	Normal as 1) Server or camera connected and operating and 2) Event acknowledged and closed	

16.1.5	The VMS shall allow creation of Reports to a. view and manage a list of unacknowledged events, b. view a list of open events and c. search for specific events based on various criteria	
16.1.6	The VMS should periodically check the gaps in live recording of the cameras and should check with the on-board storage of the camera. In case of a gap, the VMS should synchronize the video recording on the on-board storage with the VMS storage. Such synchronized storage should be displayed with different color for quick attention of the operator.	
16.1.7	VMS shall support Edge based /server Based/ third party server based analytics	
16.1.8	VMS shall generate the events& alarm wrt to the camera edge based analytics like Perimeter, intrusion, line crossing etc which are available in camera edge.	
17	Failover - (shall support for future requirement)	
17.1	The VMS system should have N:1/N:0/N:N failover/redundancy mechanism architecture	
17.2	The VMS shall support automatic failover/redundancy for recording	
17.3	The VMS shall support manual failover/redundancy for maintenance purpose	
18	This shall allow operations managers and system integrator to build customized video surveillance networks that meet their exact requirements. Software suite shall be a scalable and flexible video management system that could be easily managed and monitored. Scalable system shall permit retrieval of live or recorded video anywhere, anytime on a variety of clients via a web browser interface.	
19	The VMS shall be enabled for integration with any external Video Analytics Systems.	
20	The VMS shall be capable of being deployed in a virtualized environment without loss of any functionality.	
21	All CCTV camera video signal inputs to the system shall be provided to command control Center, and the transmission medium used shall best suit the relative camera deployments and access to the CCTV Network.	

#### 6. Recording Server Specification

No.	Description	Specification	Compliance/ Deviation
1	Type	Support min128 Channel Rack-mountable NVR or Recording Server	
2	Storage Capacity	Should have Minimum 20 Hard Disk Slots. Supports upto 340TB including RAID5 and 6. with each 18TB per SATA Min 256GB SSD for OS & recording application software	
3	RAID Level	RAID 5/6 (Mega RAID SAS 9351-8i or better)	
4	Network Connections	Dual Gigabit Ethernet (RJ-45 port) – 10/100/1000 Mbps.	

5	Operating System	Linux/Windows	
6	Processor	Intel Xeon processor or better with min 8 core, min 3.4Ghz, up to 4.8GHz at turbo & 16MB cache.	
7	Memory	32GB DDR3 or better	
8	Video Compression	H.264, H.265,MJPEG	
9	Recording Support	Support the simultaneous recording of min 128 IP cameras at 1080p resolution at 15 fps	
10	Synchronous Playback	Minimum 16 Channel	
11	Recording Resolution	4K, 5MP, 1080P, 720P, D1	
12	Network Protocol Support	HTTP/HTTPS, TCP/IP, RTSP, UDP, NTP, DHCP, IPC Search	
13	Bandwidth	1900Mbps useable or better	
14	Minimum Function / Features	<ul style="list-style-type: none"> <li>• ONVIF Profile S or better</li> </ul>	
		<ul style="list-style-type: none"> <li>• Should be able to recover the video from edge storage of Network Camera in case of network failure automatically once the network is stabilized.</li> </ul>	
		<ul style="list-style-type: none"> <li>•Should able to allocate variable disk space to different cameras to record video for a longer time on the high-security camera.</li> </ul>	
		<ul style="list-style-type: none"> <li>• Water Mark or E-signature</li> </ul>	
		<ul style="list-style-type: none"> <li>•Storage expansion if required</li> </ul>	
15	Input Voltage	100~240 V AC, 50/60 Hz. Dual Power. Any power converter that is required to power the NVR has to be supplied by Bidder. With redundant power supply	
16	Operating System temperature	10°C ~ 25°C or better	
17	Approval	FCC, BIS, UL	

**Note: Bidder can provide Recording Server+ VMS instead of NVR if required. In such situation server specification should be as per the recommendation of VMS OEM. Bidder need to submit the recommended server specification from VMS OEM along with the MAF. The bidder has the flexibility to go for multiple server/NVR for meeting the recording parameter/backup, but the hardware spec of each server shall be minimum as above.**

**7. Minimum Hardware Specification for Client workstation**

No.	Feature Description	Bidder Compliance (Y/N)
1	CPU : Intel i7 or better	
2	RAM : 16 GB or better	
3	OS Drive : 128 GB SSD or better	
4	Operating System : Microsoft Windows 10 or Ubuntu Linux 18.04	
5	NIC : 2 x 1 Gbps	
6	Min 8 GB NVIDIA or more similar discrete graphics card for 2 monitor 32 streams	

**Note: If VMS OEM recommends higher server configuration, please specify the higher one.**

Signature of Bidder .....

Name: .....

Designation .....

Place: .....

Date: .....

Seal of BA Organization

**ANNEXURE 8****PRICE BID**

To be uploaded as pdf (On Organization Letter Head)

EOI NO. RCIL/SR/ERS/2024-25/EOI/9 DTD. 06-01-2025

To,

The Joint General Manager (ERS)

RailTel Corporation India Limited,

Kerala Territory Office,

1<sup>st</sup> Floor, Eastern Entry Tower

Ernakulam South Railway Station

Ernakulam – 682016

TENDER NO: **GEM/20241815639583 dtd 25.11.2024**

The RFP published by COCHIN PORT for the work vide **GEM/20241815639583 dtd 25.11.2024** as circulated March please be referred for any clarifications. **The submission of EMD, PBG, SD and Agreement with RCIL Non-Judicial paper by the selected Bidder will be sacrosanct selected Bidder.**

No.	Description of Item	Quantity	RATE(Rs.)	AMOUNT(Rs.)	
I	SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF CCTV CAMERAS AND ACCESSORIES AS PER TECHNICAL SPECIFICATIONS IN TENDER DOCUMENT				
1	2 MP AI Outdoor type PTZ Camera	1	No.		
2	2 MP Outdoor ANPR / Zoom type box Camera	9	No.		
3	5 MP Out Door Box/Bullet Motorized VF IR Camera	24	No.		
4	6 MP Indoor type Fish eye Camera	1	No.		
5	GI pole 3 inch dia. 5 metre long with Foundation	18	No.		
6	Outdoor wall mount Rack/ IP 65 BOX with fan Network Accessories with Required Glands	12	No.		
7	6 U indoor Rack With Tray , PDU and Cable Manager and Required Accessories	7	No.		
8	POE Switch 8 port poe+ With 2 sf port With power budget of 55W	11	No.		
9	POE Switch 4 port poe+ With 1 sf port With power budget of 55W	16	No.		
10	SFP Module With Patch cord	86	No.		
11	Polycarbonate junction box	3	No.		
12	Network Surge Protector	68	No.		

13	Lighting Arrestor	24	No.		
14	Earthing Strip with Required Links and Earthing Compound	24	No.		
15	MCB and Other Accessories	28	No.		
16	6 Core SM Fiber Cable Armoured – 6 core Indoor/ Outside Cable - Corrugated Steel tape Armoured, Loose-tube, Dry tube, FRLSZH Jacket, 9/125 SM OS2 along with Factory acceptance test and including all required accessories such as fully loaded fibre panel and patch cords to complete the structured cabling & 5 Year Warranty.	9750	Mtrs.		
17	HDPE pipe 25/32 mm	5455	Mtrs.		
18	CAT 6 Cable Outdoor - Cat6 U/UTP Double Jacketed Outdoor Cable with PE and LSZH jacket including all required accessories such as patch panel, reusable IDC connector, patch cords to complete the structured cabling	1010	Mtrs.		
19	800 VA UPS With Inbuilt Battery	19	No.		
20	PVC Conduit 25 mm ISI Medium	300	Mtrs.		
21	Power Cable 3 core 1.5 sq mm	365	Mtrs.		
22	UPS of adequate capacity with Minimum of 2000 VA UPS With minimum Battery back up of one Hour.	1	No.		
23	Pole Structure with Foundation which could stand the conditions of the installation area(COT&NTB)	2	No.		
24	P2P link for the wireless communication	3	Nos.		
25	Structure and earthing for the wireless communication	3	Nos.		
26	Pendant for Fish Eye Camera	1	No.		
27	Reposition of existing cameras -CFS	10	Nos.		
28	<b>Rack Mount Recorder consisting of following :</b>	1			
28.a	Warranty 5 years & Software support with upgrades for 5 more years.	1	LS		
28.b	Warranty 5 years & Software support with upgrades for 5 more years.	1	No.		
28.c	Camera Recording Server/NVR as per technical specification	2	Nos.		
29	18 TB HDD	18	No.		
30	High End Work station	1	No.		
31	24 port POE + 4 SFP switch	1	No.		
32	24 port GB switch with 4 port SFP Enterprise	1	No.		



33	24 port SFP Switch Enterprise	1	No.		
34	43 inch Display Professional 24X7 Operational	2	Nos.		
35	32 u rack With all accessories	1	No.		
36	PTZ Joy Stick Controller	1	No.		
	<b>TOTAL SUPPLY CHARGES</b>				
<b>II</b>	<b>TOTAL ERECTION CHARGES FOR ENTIRE LOCATION</b>				
1	Splicing Charges	200	Nos.		
2	Soft Soil Digging & resurfacing	500	Mtrs.		
3	Tar Cutting & resurfacing	530	Mtrs.		
4	Conduit laying & pulling all over the wall	1000	Mtrs.		
5	Installation, Testing, Commissioning & Training charges	1	LS		
	<b>TOTAL ERECTION CHARGES FOR ENTIRE LOCATION</b>				
	<b>TOTAL COST FOR SITC OF CCTV CAMERAS (SUPPLY+ERECTION)</b>				
	<b>Rates for the Comprehensive Annual Maintenance Contract of the 35 nos. of IP CCTV security cameras &amp; accessories for five years after 2-year guarantee period</b>	3rd year (x0.8163)			
		4th year (x0.7629)			
		5th year (x0.7130)			
		6th year (x0.6663)			
		7th year (x0.6627)			
	<b>TOTAL COST FOR 5 YEARS CAMC AFTER 2 YEARS GUARANTEE PERIOD</b>				

Signature of Bidder .....

Name: .....

Designation .....

Place: .....

Date: .....

Seal of BA Organization

**ANNEXURE 9****PROFORMA FOR PERFORMANCE BANK GUARANTEE**

(On Stamp Paper of ₹ Two Hundred/requisite value)

To,

The Joint General Manager (ERS)

RailTel Corporation India Limited,

Kerala Territory Office,

1<sup>st</sup> Floor, Eastern Entry Tower

Ernakulam South Railway Station

Ernakulam – 682016

Ref. No.: GEM/20241815639583 dtd 25.11.2024; latest amendment/ Corrigendum / clarifications. Floated on: Gem portal (<https://gem.gov.in/>)

1. In consideration of the RailTel Corporation of India Limited (CIN: L64202DL2000GOI107905), having its registered office at Plate-A, 6<sup>th</sup> Floor, Office Block Tower-2, East Kidwai Nagar, New Delhi – 110023 (herein after called “RailTel”) having agreed to exempt ..... (CIN: ..... ) having its registered office at..... (Herein after called “the said Contractor”) from the demand, under the terms and conditions of Purchase Order No ..... dated..... made between RailTel and.....for (hereinafter called “the said Agreement”) of security deposit for the due fulfilment by the said Contractor of the terms and condition contained in the said Agreement, or production of a Bank Guarantee for Rs. .... (Rs..... Only). We ..... (Indicate the name and address and other particulars of the Bank) (hereinafter referred to as ‘the Bank’) at the request of .....contractor do hereby undertake to pay RailTel an amount not exceeding Rs. .... (Rs ..... Only) against any loss or damage caused to or suffered or would be caused to or suffered by the RailTel by reason of any breach by the said Contractor of any of the terms or conditions contained in the said Agreement.
2. We, ..... the Bank do hereby undertake to pay the amounts due and payable under this Guarantee without any demur, merely on demand from the RailTel stating that the amount is claimed is due by way of loss or damage by the said Contractor of any of terms or conditions contained in the said Agreement by reason of the Contractor’s failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs ..... (Rs.....Only).
3. We, ..... the Bank undertake to pay the RailTel any money so demanded notwithstanding any dispute or disputes raised by the Contractor in any suit or proceedings pending before any court or Tribunal relating thereto our liability under this present being, absolute and unequivocal. The payment so made by us under this Bond shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.

4. We, ..... the Bank further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the RailTel under or by virtue of the said

Agreement have been fully paid and its claims satisfied or discharged or till RailTel certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor and accordingly discharges this Guarantee. Unless a demand or claim under the Guarantee is made on us in writing on or before .....We shall be discharged from all liability under this Guarantee thereafter.

5. We, ..... the Bank further agree with the RailTel that the RailTel shall have fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the Agreement or to extend time of to postpone for anytime or from time to time any of the powers exercisable by the RailTel against the said Contractor and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension to the said Contractor or for any forbearance, act or omission on the part of RailTel or any indulgence by the RailTel to the said Contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

This Guarantee will not be discharge due to the change in the constitution of the Bank or the Contract or ( ..... indicate the name of Bank ..... ) lastly undertake not to revoke this Guarantee during its currency except with the previous consent of RailTel in writing.

Dated the ..... Day of ..... 2024 for ..... (Name of Bank) In the presence of Witnesses:

1. Signature with Date & Name

2. Signature With Date & Name

Signature of Bidder .....

Name: .....

Designation .....

Place: .....

Date: .....

Seal of BA Organization

**ANNEXURE 10****NON-DISCLOSURE AGREEMENT**

This Non-Disclosure Agreement (this "Agreement") is made and entered into on this \_\_\_\_ day of, 2021 (the "Effective Date") at by and between RailTel Corporation of India Limited, (CIN: L64202DL2000GOI107905), a Public Sector Undertaking under Ministry of Railways, Govt. of India, having its registered and corporate office at Plate-A, 6th Floor, Office Block, Tower-2, East Kidwai Nagar, New Delhi-110023 & Southern Region office at 1-10-39 to 44, 6A, 6th Floor, Gumidelli Towers, Begumpet Airport Road, Opp. Shoppers Stop, Hyderabad- 500016, (hereinafter referred to as 'RailTel'), which expression shall unless repugnant to the context or meaning thereof, deem to mean and include its successors and its permitted assignees of the ONE PART, and ) (CIN: \_\_\_\_\_), a company duly incorporated under the provisions of Companies Act, having its registered office at , (hereinafter referred to as ' '), which expression shall unless repugnant to the context or meaning thereof, deem to mean and include its successors and its permitted assignees of OTHER PART RailTel and \_\_\_\_\_ shall be individually referred to as "Party" and jointly as "Parties" WHEREAS, RailTel and \_\_\_\_\_, each possesses confidential and proprietary information related to its business activities, including, but not limited to, that information designated as confidential or proprietary under Section 2 of this Agreement, as well as technical and non- technical information, patents, copyrights, trade secrets, know-how, financial data, design details and specifications, engineering, business and marketing strategies and plans, forecasts or plans, pricing strategies, formulas, procurement requirements, vendor and customer lists, inventions, techniques, sketches, drawings, models, processes, apparatus, equipment, algorithms, software programs, software source documents, product designs and the like, and third party confidential information (collectively, the "Information"); WHEREAS, the Parties have initiated discussions regarding a possible business relationship for WHEREAS, each Party accordingly desires to disclose certain Information (each Party, in such disclosing capacity, the "Disclosing Party") to the other Party (each Party, in such receiving capacity, the "Receiving Party") subject to the terms and conditions of this Agreement.

NOW THEREFORE, in consideration of the receipt of certain Information, and the mutual promises made in this Agreement, the Parties, intending to be legally bound, hereby agree as follows:

**1. Permitted Use.**

(a) Receiving Party shall:

- (i) hold all Information received from Disclosing Party in confidence;
- (ii) use such Information for the purpose of evaluating the possibility of entering into a commercial arrangement between the Parties concerning such Information; and
- (iii) restrict disclosure of such Information to those of Receiving Party's officers, directors, employees, affiliates, advisors, agents and consultants (collectively, the "Representatives") who the Receiving Party, in its reasonable discretion, deems need to know such Information, and are bound by the terms and conditions of (1) this Agreement, or (2) an agreement with terms and conditions substantially similar to those set forth in this Agreement.

(b) The restrictions on Receiving Party's use and disclosure of Information as set forth above shall not apply to any Information that Receiving Party can demonstrate:

- (i) is wholly and independently developed by Receiving Party without the use of Information of Disclosing Party;

- (ii) at the time of disclosure to Receiving Party, was either (A) in the public domain, or (B) known to Receiving Party;
  - (iii) is approved for release by written authorization of Disclosing Party; or
  - (iv) is disclosed in response to a valid order of a court or other governmental body in the India or any political subdivision thereof, but only to the extent of, and for the purposes set forth in, such order; provided, however, that Receiving Party shall first and immediately notify Disclosing Party in writing of the order and permit Disclosing Party to seek an appropriate protective order.
- (c) Both parties further agree to exercise the same degree of care that it exercises to protect its own Confidential Information of a like nature from unauthorized disclosure, but in no event shall a less than reasonable degree of care be exercised by either party.

**2. Designation.**

(a) Information shall be deemed confidential and proprietary and subject to the restrictions of this Agreement if, when provided in:

- (i) written or other tangible form, such Information is clearly marked as proprietary or confidential when disclosed to Receiving Party; or
- (ii) oral or other intangible form, such Information is identified as confidential or proprietary at the time of disclosure.

**3. Cooperation.** Receiving Party will immediately give notice to Disclosing Party of any unauthorized use or disclosure of the Information of Disclosing Party.

**4. Ownership of Information.** All Information remains the property of Disclosing Party and no license or other rights to such Information is granted or implied hereby. Notwithstanding the foregoing, Disclosing Party understands that Receiving Party may currently or in the future be developing information internally, or receiving information from other parties that may be similar to Information of the Disclosing Party. Notwithstanding anything to the contrary, nothing in this Agreement will be construed as a representation or inference that Receiving Party will not develop products, or have products developed for it, that, without violation of this Agreement, compete with the products or systems contemplated by Disclosing Party's Information.

**5. No Obligation.** Neither this Agreement nor the disclosure or receipt of Information hereunder shall be construed as creating any obligation of a Party to furnish Information to the other Party or to enter into any agreement, venture or relationship with the other Party.

**6. Return or Destruction of Information.**

(a) All Information shall remain the sole property of Disclosing Party and all materials containing any such Information (including all copies made by Receiving Party) and its Representatives shall be returned or destroyed by Receiving Party immediately upon the earlier of:

- (i) termination of this Agreement;
- (ii) expiration of this Agreement; or
- (iii) Receiving Party's determination that it no longer has a need for such Information.

(b) Upon request of Disclosing Party, Receiving Party shall certify in writing that all Information received by Receiving Party (including all copies thereof) and all materials containing such Information (including all copies thereof have been destroyed.

**7. Injunctive Relief:** Without prejudice to any other rights or remedies that a party may have, each party acknowledges and agrees that damages alone may not be an adequate remedy for any breach of this Agreement, and that a party shall be entitled to seek the remedies of injunction, specific performance and/or any other equitable relief for any threatened or actual breach of this Agreement.

**8. Notice.**

(a) Any notice required or permitted by this Agreement shall be in writing and shall be delivered as follows, with notice deemed given as indicated:

- (i) by personal delivery, when delivered personally;
- (ii) by overnight courier, upon written verification of receipt; or
- (iii) by certified or registered mail with return receipt requested, upon verification of receipt.

(b) Notice shall be sent to the following addresses or such other address as either Party specifies in writing.

RailTel Corporation of India limited:

Attn:

Address:

Phone:

Email:

**9. Term, Termination and Survivability.**

(a) Unless terminated earlier in accordance with the provisions of this agreement, this Agreement shall be in full force and effect for a period of    years from the effective date hereof.

(b) Each party reserves the right in its sole and absolute discretion to terminate this Agreement by giving the other party not less than 30 days' written notice of such termination.

(c) Notwithstanding the foregoing clause 9(a) and 9 (b), Receiving Party agrees that its obligations, shall:

- (i) In respect to Information provided to it during the Term of this agreement, shall survive and continue even after the expiry of the term or termination of this agreement; and
- (ii) not apply to any materials or information disclosed to it thereafter.

**10. Governing Law and Jurisdiction.** This Agreement shall be governed in all respects solely and exclusively by the laws of India without regard to its conflicts of law principles. The Parties hereto expressly consent and submit themselves to the jurisdiction of the courts of New Delhi.

**11. Counterparts.** This agreement is executed in duplicate, each of which shall be deemed to be the original and both when taken together shall be deemed to form a single agreement

**12. No Definitive Transaction.** The Parties hereto understand and agree that no contractor agreement with respect to any aspect of a potential transaction between the Parties shall be deemed to exist unless and until a definitive written agreement providing for such aspect of the transaction has been executed by a duly authorized representative of each Party and duly delivered to the other Party (a "Final Agreement"), and the

Parties hereby waive, in advance, any claims in connection with a possible transaction unless and until the Parties have entered into a Final Agreement.

**13. Settlement of Disputes:**

(a) The parties shall, at the first instance, attempt to resolve through good faith negotiation and consultation, any difference, conflict or question arising between the parties hereto relating to or concerning or arising out of or in connection with this agreement, and such negotiation or consultation shall begin promptly after a Party has delivered to another Party a written request for such consultation.

b) In the event of any dispute, difference, conflict or question arising between the parties hereto, relating to or concerning or arising out of or in connection with this agreement, is not settled through good faith negotiation or consultation, the same shall be referred to arbitration by a sole arbitrator

**14.** The sole arbitrator shall be appointed by COCHIN PORT/RailTel out of the panel of independent arbitrators maintained by RailTel, having expertise in their respective domains. The seat and the venue of arbitration shall be New Delhi. The arbitration proceedings shall be in accordance with the provision of the Arbitration and Conciliation Act 1996 and any other statutory amendments or modifications thereof. The decision of arbitrator shall be final and binding on both parties. The arbitration proceedings shall be conducted in English Language. The fees and cost of arbitration shall be borne equally between the part.

**15. CONFIDENTIALITY OF NEGOTIATIONS**

Without the Disclosing Party's prior written consent, the Receiving Party shall not disclose to any Person who is not a Representative of the Receiving Party the fact that Confidential Information has been made available to the Receiving Party or that it has inspected any portion of the Confidential Information or that discussions between the Parties may be taking place.

**16. REPRESENTATION**

The Receiving Party acknowledges that the Disclosing Party makes no representation or warranty as to the accuracy or completeness of any of the Confidential Information furnished by or on its behalf. Nothing in this clause operates to limit or exclude any liability for fraudulent misrepresentation.

**17. ASSIGNMENT**

Neither this Agreement nor any of the rights, interests or obligations under this Agreement shall be assigned, in whole or in part, by operation of law or otherwise by any of the Parties without the prior written consent of each of the other Parties. Any purported assignment without such consent shall be void. Subject to the preceding sentences, this Agreement will be binding upon, inure to the benefit of, and be enforceable by, the Parties and their respective successors and assigns.

**18. EMPLOYEES AND OTHERS**

Each Party shall advise its Representatives, contractors, subcontractors and licensees, and shall require its Affiliates to advise their Representatives, contractors, subcontractors and licensees, of the obligations of confidentiality and non-use under this Agreement, and shall be responsible for ensuring compliance by its and its Affiliates' Representatives, contractors, subcontractors and licensees with such obligations. In addition, each Party shall

require all persons and entities who are not employees of a Party and who are provided access to the Confidential Information, to execute confidentiality or non-disclosure agreements containing provisions no less stringent than those set forth in this Agreement. Each Party shall promptly notify the other Party in writing upon learning of any unauthorized disclosure or use of the Confidential Information by such persons or entities.

#### **19. NO LICENSE**

Nothing in this Agreement is intended to grant any rights to under any patent, copyright, or other intellectual property right of the Disclosing Party, nor will this Agreement grant the Receiving Party any rights in or to the Confidential Information of the Disclosing Party, except as expressly set forth in this Agreement.

#### **20. RELATIONSHIP BETWEEN PARTIES:**

Nothing in this Agreement or in any matter or any arrangement contemplated by it is intended to constitute a partnership, association, joint venture, fiduciary relationship or other cooperative entity between the parties for any purpose whatsoever. Neither party has any power or authority to bind the other party or impose any obligations on it and neither party shall purport to do so or hold itself out as capable of doing so.

#### **21. UNPULISHED PRICE SENSITIVE INFORMATION (UPSI)**

agrees and acknowledges that \_\_\_\_\_, its Partners, employees, representatives etc., by virtue of being associated with RailTel and being in frequent communication with RailTel and its employees, shall be deemed to be "Connected Persons" within the meaning of SEBI (Prohibition of Insider Trading) Regulations, 2015 and shall be bound by the said regulations while dealing with any confidential and/ or price sensitive information of RailTel. shall always and at all times comply with the obligations and restrictions contained in the said regulations. In terms of the said regulations \_\_\_\_\_ shall abide by the restriction on communication, providing or allowing access to any Unpublished Price Sensitive Information (UPSI) relating to RailTel as well as restriction on trading of its stock while holding such Unpublished Price Sensitive Information relating to RailTel

#### **22. MISCELLANEOUS.**

This Agreement constitutes the entire understanding among the Parties as to the Information and supersedes all prior discussions between them relating thereto. No amendment or modification of this Agreement shall be valid or binding on the Parties unless made in writing and signed on behalf of each Party by its authorized representative. The failure or delay of any Party to enforce at any time any provision of this Agreement shall not constitute a waiver of such Party's right thereafter to enforce each and every provision of this Agreement. In the event that any of the terms, conditions or provisions of this Agreement are held to be illegal, unenforceable or invalid by any court of competent jurisdiction, the remaining terms, conditions or provisions hereof shall remain in full force and effect. The rights, remedies and obligations set forth herein are in addition to, and not in substitution of, any rights, remedies or obligations which may be granted or imposed under law or in equity.

IN WITNESS WHEREOF, the Parties have executed this Agreement on the date set forth above.

By Name:

RailTel Corporation India Limited:

Title:

By Name :

Witnesses:

Title:



**ANNEXURE 11****PRE -BID AGREEMENT**

(To be executed in presence of public notary on non-judicial stamp paper of the value of Rs. 100/-. The stamp paper has to be in the name of the BA)

This Pre-Bid Agreement (the “**Agreement**”) is made at New Delhi on this \_\_\_\_\_ Day of (month) 2022.

**BETWEEN**

**M/s. RailTel Corporation Of India Limited**, (CIN: L64202DL2000GOI107905) a company registered under the Companies Act 1956, having its registered and corporate office at Plate-A, 6<sup>th</sup> Floor, Office Block, Tower-2, East Kidwai Nagar, New Delhi India – 110 023 and Southern Regional office at 1-10-39 to 44, 6A, 6th Floor, Gumidelli Towers, Begumpet Airport Road, Opp. Shoppers Stop, Hyderabad-500 016 (hereinafter referred to as “**RailTel**” which expression shall, unless repugnant to the context or meaning thereof, be deemed to include its successors and permitted assigns) of the **FIRSTPART. AND M/s. XXXX**, (CIN: \_\_\_\_\_) a company registered under the Companies Act 1956, having its registered office at and its Corporate Office located at \_\_\_\_\_ (hereinafter referred to as “**XXXX**” which expression shall, unless repugnant to the context or meaning thereof, be deemed to include its successors and permitted assigns) of the **SECOND PART.**

RailTel and \_\_\_\_\_ shall be hereinafter individually referred to as “**Party**” And collectively as “**Parties**.”  
**“Whereas,**

A) RailTel is a "Mini Ratna (Category-I)" CPSU of Ministry of Railways, having exclusive right of way along Indian Railways and has created an OFC backbone and associated transport and network infrastructure to provide carrier class telecom services. RailTel has Unified License issued by DoT to provide a range of telecom services. RailTel also has two tier III certified data centres at Secunderabad and Gurugram. RailTel has created a slew of digital services like cloud, hosting, hosted Video Conferencing service, Aadhar Services, Content delivery platform, WIFI as a service etc. RailTel has strong capabilities in managing telecom infrastructure, MPLS network infrastructure, data centre services like as (Infrastructure as a Service) and PaaS (Platform as a Service).

B) \_\_\_\_\_ (DETAILS OF SECOND PART)

C) RailTel had floated an **EOI No: \_dated\_\_\_\_\_** pursuant to the **RFP floated by End Customer for“\_ for End Customer Organization for agreed Scope of Work”(hereinafter referred as “The said work/project/tender”)**, and subsequently, based on the offer submitted by M/s **XXXX** towards the RailTel’s EOI, M/s **XXXX** has been selected by RailTel as Business Associate for the said Project.

D) RailTel is in the process of participating in the tender issued by end customer, complete details of which have deliberately not been shared with **XXXX** and **XXXX** has waived its right to get the RFP document of end customer owing to confidentiality concern raised by the end customer. However, a limited scope of work on ‘need to know basis and as detailed in clause 1.7 below, which will be carried out by **XXXX** has been shared with **XXXX** and based on the representation of “**XXXX**” that “**XXXX**” has read the said limited Scope of Work and has understood the contents thereof and that “**XXXX**” has sufficient experience to execute the said limited and defined scope of work, the Parties have mutually decided to form a “Business association” wherein RailTel shall act as the “Bidder” and “**XXXX**” shall act as the “business associate” in terms of the said Tender and in accordance to the terms agreed hereunder;

E) RailTel shall submit Rupees YYYY as BG against pre integrity pact at the time of submission of bid as an Integrity Pact bank guarantee to end customer and accordingly "XXXX" shall submit Rupees ZZZZ as BG of pre integrity pact on back-to-back basis to RailTel before final submission of the said bid to end customer. **(This is applicable on cases to case basis as per COCHIN PORT requirement. May please read in conjunction of the current RFP.)**

F) Party hereby acknowledges that RailTel has received Rs. /- (Rs. \_\_\_\_\_) from M/s XXXX as per the Terms and conditions of EOI no. dated \_\_\_\_.

G) The Parties are thus entering into this Agreement to record the terms and conditions of their understanding and the matters connected therewith.

RailTel has agreed to extend all the necessary and required support to "XXXX" during the entire contract period.

**NOW, THEREFORE**, in consideration of the mutual covenants set forth herein it is hereby agreed by and between the Parties hereto as under:

### **1. SCOPE OF CO-OPERATION**

1.1. Parties have agreed to form a "business association" to co-operate with each other on an exclusive basis with respect to execution of the said Project.

1.2. It has been further agreed between the Parties that Parties shall not bid individually for the said Project nor shall they enter into any arrangement with other parties for the purpose of bidding for the said Project during the validity of this Agreement.

1.3. The Parties also agree that the terms of the said EOI for limited and defined scope of work along with the Corrigendum's issued thereafter shall apply mutatis-mutandis to this Agreement.

1.4. The Parties further agree that they shall, enter into a 'Definitive Agreement' containing elaborate terms and conditions, role and responsibilities and respective scope of work of this Agreement after declaration of RailTel as the successful bidder of the said Project.

1.5. RailTel shall submit the PBG amounting Rs. XXXXX, earnest money deposit / EMD declaration (whichever is applicable) and performance bank guarantee to **End customer** and accordingly "XXXX" shall submit to RailTel, BG amounting to Rs. \_\_\_\_\_ as the earnest money deposit. Further, XXXX shall also pay the performance bank guarantee in proportionate to the extent of its defined scope of work.

1.6. RailTel may further retain some portion of the work mentioned in the end organization's RFP, where RailTel has competence so that overall proposal becomes most winnable proposal.

XXXX agrees, undertakes and acknowledges that following shall be Scope of Work of XXXX out of the total project work.:

**2. Technical Terms – As per COCHIN PORT/RCIL document**

### **3. TERM AND TERMINATION**

3.1. This Agreement shall come into force as of the date of signing and shall continue to be in full force and effect till the complete discharge of all obligations, concerning the carrying out of the said Project, except terminated earlier by the Parties in terms of this Agreement or in terms of the said project, whichever is applicable.

3.2. This Agreement can be terminated by either Parties forthwith in the event of happening of the following events:

- (a) End customer announces or notifies the cancellation of the said Project and / or withdrawing the said RFP.
- (b) The receipt of an official communication that End customer chooses not to proceed with RailTel for the said Project or RailTel is not short listed by End customer.
- (c) Material breach of any of the terms and conditions of this Agreement by either of the Parties and the same is not rectified by the defaulting Party beyond 15 (fifteen) days (or a reasonable time period as mentioned under the notice issued by the other Party) from the date of receipt of notice from the other Party to cure the said breach.

3.3. Parties agree and understand that as of the execution of this Agreement they are contractually bound and obligated to perform the services, obligations and the scope of work entrusted, should RailTel be declared as the successful bidder of the said Project. Any Party shall not withdraw its participation subsequent to execution of this Agreement, at any point in time except in case of material breach of any of the terms of the Agreement.

3.4. In case "XXXX" breach the terms of Agreement i.e. defaulting party in such case the balance unsupplied quantity or service shall be completed by RailTel i.e. non-defaulting party and cost for completion of that balance unsupplied quantity or service of such defaulting party shall be executed by RailTel at the risk and cost of such defaulting party.

#### **4. Liability:**

It is understood that the parties are entering into this pre-bid teaming agreement for requirement of submission of bid against the RFP floated by end customer for Implementation of Network Security System and Integration for end Customer Organization. Parties acknowledge and agree that "XXXX" shall be completely liable for the successful execution of this project, in relation to its defined scope of work (as detailed in clause 1.7 above), fully complying the end customer requirements. Accordingly, it is agreed that notwithstanding anything contained in the RFP document, "XXXX" shall be liable to RailTel with regard to its obligations and liability to complete the agreed and defined scope of work as detailed in clause 1.7 above.

#### **5. EXCLUSIVITY**

Parties agree to co-operate with each other for the purpose of the said Project on an exclusive basis with respect to applying for, submitting and execution of the said Project including providing of technical demo, proof of concept for the agreed and defined scope of work.

#### **6. PAYMENT TERMS**

The payment terms between the parties shall be only on receipt of payment from end customer.

#### **7. TAXES**

Parties agree that they will comply with the Indian Income Tax Act in force from time to time and pay Indian Income Tax, as may be imposed / levied on them by the Indian - Income Tax Authorities, for the payments received by them for the Project under this agreement and any other taxes, cess, surcharge, etc. for their respective scope of works;

#### **8. INDEMNIFICATION**

8.1 Parties agree to and undertake to indemnify and hold each other, its officers, directors, agents and employees harmless, from and against any and all claims, demands, causes of action, losses, damages, costs and expenses (including attorney's reasonable fees, costs of investigation and defence) arising out of or resulting from any claim, action or other proceeding (including any proceeding by any of the indemnifying party's employees, agents or contractors) based upon:

- i. any breach or contravention of any of the terms, conditions, covenants of this Agreement by the Party;
- ii. Unethical business practices;
- iii. any acts or omission of the Party and/ or any of its employees, agents or contractors, and the liability for damages to property arising from or out of party operations in connection with the performance of this agreement;
- iv. any claim for taxes that might arise or be imposed due to this performance of Services hereunder;
- v. any representation or warranty or information furnished by the Party being found to be false;
- vi. Parties failure to pay all applicable compensation to its respective personnel;
- vii. death or personal injury to any person;
- viii. destruction or damage to any property by acts or omissions of either Party, its representatives or personnel;
- ix. any violation/non-compliance by the Party with any applicable laws governmental regulations or orders;
- x. any third-party liability;
- xi. improper handling or misuse of the Confidential Information of the Party(ies) by the Party

8.2 XXXX shall be liable to all risks and consequences (including the risk of payments) suffered in the performance of services under the Project and undertakes to indemnify RailTel from and against any non-payments (of RailTel's share payable to RailTel), recoveries and claim from End Customer or any other cost or losses incurred due to default/non-performance on part of XXXX.

## **9. COMPLIANCES TO STATUTORY OBLIGATIONS**

- 9.1. Parties shall also obtain and keep in place necessary insurance policies, Medclaim policies, group insurance schemes of adequate value to cover their workmen, supervisors, etc. with regard to any accidents, injury or the liability under the Employee Compensation Act.
- 9.2. Parties shall observe and be responsible for the compliance of all labour laws (including labour cess) as per government notifications and shall maintain necessary records for the same and shall submit the same to RailTel when so required.
- 9.3. Parties shall duly maintain all records / registers required to be maintained by them under various labour laws mentioned above and shall produce the same before the concerned Statutory Authorities whenever required and called upon to do so.

## **10. LEGAL STATUS**

This Agreement constitutes a contractual relationship and shall relate solely to the Project and shall not extend to other activities or be construed to create a corporation, body corporate, partnership or any other form of legal entity.

## **11. REPRESENTATIONS AND COVENANTS**

11.1. Each Party represents and warrants to the other Party as follows:

- 11.1.1. That it has full capacity, power and authority and has obtained all requisite consents and approvals to, enter into and to observe and perform this Agreement and to consummate the transactions contemplated

hereunder. Each of the Persons / personnel executing this Agreement on behalf of the each of the Parties have full capacity and authority to sign and execute this Agreement on behalf of the respective Parties;

11.1.2. The execution, delivery and consummation of, and the performance by it, of this Agreement shall not conflict with, violate, result in or constitute a breach of or a default under, (a) any contract by which it or any of its assets or properties, are bound or affected, and/or (b) its constitutional documents;

11.1.3. This Agreement constitutes its legal, valid and binding obligations, enforceable against it, in accordance with their terms under Applicable Statutory Law(s);

11.1.4. It has the right, authority and title to execute this Agreement;

## **12. SUBCONTRACTING BETWEEN PARTIES**

If a Party subcontracts certain supplies or services pertaining to its scope of work to the other party, then the resulting relationship between such parties shall be governed by a separate subcontract. This Agreement shall not in any way be affected thereby except as stated otherwise in this Agreement

## **13. GOVERNING LAW AND JURISDICTION**

The construction, validity and performance of this Agreement shall be governed in all respects by the Laws of India. The Parties hereby submit to the exclusive jurisdiction of the Indian courts at Delhi only.

## **14. GOOD FAITH NEGOTIATION AND DISPUTE RESOLUTION**

The parties shall, at the first instance, attempt to resolve through good faith negotiation and consultation, any difference, conflict or question arising between the parties hereto relating to or concerning or arising out of or in connection with this agreement, and such negotiation or consultation shall begin promptly after a Party has delivered to another Party a written request for such consultation.

In the event of any dispute, difference, conflict or question arising between the parties here to, relating to or concerning or arising out of or in connection with this agreement, is not settled through good faith negotiation or consultation, the same shall be referred to arbitration by a sole arbitrator.

The sole arbitrator shall be appointed by COCHIN PORT/RailTel out of the panel of independent arbitrators maintained by RailTel, having expertise in their respective domains. The seat and the venue of arbitration shall be New Delhi. The arbitration proceedings shall be in accordance with the provision of the Arbitration and Conciliation Act 1996 and any other statutory amendments or modifications thereof. The decision of arbitrator shall be final and binding on both parties. The arbitration proceedings shall be conducted in English Language. The fees and cost of arbitration shall be borne equally between the parties.

## **15. FORCE MAJEURE**

“Force Majeure Event” shall mean any event beyond the reasonable control of the affected Party including acts of God, fires, earthquakes, strikes, pandemic, epidemics, lock down, and labour disputes, acts of war or terrorism, civil unrest, economic and financial sanctions, or acts or omissions of any Governmental Authority occurring on or after the Signature Date.

No Party shall be liable to the other if, and to the extent, that the performance or delay in performance of any of its obligations under this Agreement is prevented, restricted, delayed or interfered with, due to a Force Majeure Event. The Party affected by Force Majeure Event shall promptly inform the other Party in writing and shall furnish within 30 (thirty) days thereafter, sufficient proof of the occurrence and expected duration of such Force Majeure Event. The Party affected by Force Majeure Event shall also use all reasonable endeavours to mitigate the negative effects of such Force Majeure Event on such Party’s ability to perform its contractual obligations. In the event of a Force

Majeure Event, the Parties shall immediately consult with each other in order to find an equitable solution and shall use all reasonable endeavours to minimise the consequences of such Force Majeure Event. The occurrence of a Force Majeure Event shall however, not relieve a Party of any obligation to pay any sum due under this Agreement prior to the occurrence of the Force Majeure Event. If the Force Majeure lasts for more than 6 (six) months, the Parties may mutually decide in writing on the future course of action with respect to this Agreement.

## **16. INTELLECTUAL PROPERTY RIGHTS**

- 16.1. Each Party shall remain the sole owner of all industrial or intellectual property rights, Technical Data, Know-How, designs, specifications and the like, generated or acquired before the signature, or beyond the scope of this agreement.
- 16.2. Each Party shall remain the sole owner of all industrial or intellectual property rights, technical data, know-how, design specifications and the like generated solely by that Party during the course of the performance of this agreement and shall not be free to use it by the other party and if the other party uses that intellectual property rights prior permission shall be taken with paying necessary fees for such rights.
- 16.3. In case of joint development, the work-share and associated ownership of intellectual property of each Party shall be mutually agreed upon and defined in advance in the definitive agreement for the specific program. However, should any invention be jointly made by the Parties in the performance of this agreement, without neither Party being in a position to reasonably claim the ownership of said intellectual property right, the said right shall be jointly owned by the Parties and the corresponding measures of protection for both Parties of the said right as may be practicable shall be mutually agreed by both Parties and cost for such registration of such right shall be borne by the parties proportionately as per the ownership of the rights.
- 16.4 As on date, Parties confirms that there are no infringements of any Intellectual Property Rights of the products contemplated under this agreement, in accordance with the laws prevailing in the country.
- 16.5. The Parties undertake and confirm that the Technology / Knowhow / Design owned by each of them and intended to be put into use for execution of various Projects pursuant to this agreement has been originally developed by each of such Parties. The Parties are entitled to all the Intellectual Property Rights in Technology / Knowhow / Design intended to be put into use for execution of various Projects and no third-party Intellectual Property Rights have been put in to use either in their original or modified form without proper authorisation of such third party. The Parties further vouchsafes that the foregoing undertaking is actuated by truth and accuracy and no misrepresentation is being put into use for inducing each other to enter into this agreement.

## **17. CONFIDENTIALITY**

- 17.1. During the term of this agreement, either party may receive or have access to technical information, as well as information about product plans and strategies, promotions, customers and related non-technical business information which the disclosing party considers to be confidential ("Confidential Information as per RFP tender document"). In the event Confidential Information is to be disclosed, the Confidential Information must be marked as confidential at the time of disclosure, or if disclosed orally but stated to be confidential, and be designated as confidential in writing by the disclosing party summarizing the Confidential Information disclosed and sent to the receiving party within thirty (30) days after such oral disclosure.
- 17.2. Confidential Information may be used by the receiving party only with respect to the performance of its obligations under this Agreement, and only by those employees of the receiving party and its subcontractors who have a need to know such information for purposes related to this Agreement, provided that such subcontractors have signed separate agreements containing substantially similar confidentiality provisions.

The receiving party must protect the Confidential Information of the disclosing party by using the same degree of care to prevent the unauthorized use, dissemination or publication of such Confidential Information, as the receiving party uses to protect its own confidential information of like nature.

17.3. The obligations is not applicable to any information which is:

17.3.1. Already known by the receiving party prior to disclosure;

17.3.2. Publicly available through no fault of the receiving party;

17.3.3. Rightfully received from a third party without being responsible for its confidentiality;

17.3.4. Disclosed by the disclosing party to a third party without being responsible for its Confidentiality on such third party;

17.3.5. Independently developed by the receiving party prior to or independent of the disclosure;

17.3.6. Disclosed under operation of law;

17.3.7. Disclosed by the receiving party with the disclosing party's prior written approval.

17.4. XXXX agrees and acknowledges that XXXX, its Partners, employees, representatives etc. by virtue of being associated with RailTel and being in frequent communication with RailTel and its employees, shall be deemed to be "Connected Persons" within the meaning of SEBI (Prohibition of Insider Trading) Regulations, 2015 and shall be bound by the said regulations while dealing with any confidential and/ or price sensitive information of RailTel. XXXX shall always and at all times comply with the obligations and restrictions contained in the said regulations. In terms of the said regulations, XXXX shall abide by the restriction on communication, providing or allowing access to any Unpublished Price Sensitive Information (UPSI) relating to RailTel as well as restriction on trading of its stock while holding such Unpublished Price Sensitive Information relating to RailTel

17.5 Notwithstanding anything contained in this agreement, XXXX undertakes, agrees and acknowledges that being RailTel's Business Associate, XXXX shall maintain utmost confidentiality in relation to said Project. XXXX further, undertakes that any information relating to said Project which is or will be disclosed/ divulged by RailTel on need to know basis, will be received and treated by XXXX as strictly confidential and XXXX shall not, without the prior written consent of the RailTel or as expressly permitted herein, disclose or make available to any other person such information.

## **18. NOTICES**

Notices, writings and other communications under this Agreement may be delivered by hand, by registered mail, by courier services or facsimile to the addresses as set out below:

To RailTel Corporation Of India Limited

To: RailTel Corporation of India Ltd

Attn: Executive Director / Southern Region

Address: 1-10-39 to 44, 6A, 6th Floor, Gumidelli Towers, Begumpet Airport Road, Opp. Shoppers Stop, Hyderabad-500016 No.: +91-40-27788000

To XXXX

To: XXXX

Kind Attn: \_\_\_\_\_ Address: \_\_\_\_\_ Mob. \_\_\_\_\_ No.: \_\_\_\_\_  
Email: \_\_\_\_\_

**19. AMENDMENT**

No amendment or modification or waiver of any provision of these presents, nor consent to any departure from the performance of any obligations contained herein, by any of the Parties hereto, shall in any event be valid and effective unless the same is in writing and signed by the Parties or their duly authorized representative especially empowered in this behalf and the same shall be effective only in respect of the specific instance and for the specific purpose for which it is given.

**20. PRIOR UNDERSTANDING**

This Agreement contains the entire Agreement between the Parties to this Agreement with respect to the subject matter of the Agreement, is intended as a final expression of such Parties' agreement with respect to such terms as are included in this Agreement is intended as a complete and exclusive statement of the terms of such agreement, and supersedes all negotiations, stipulations, understanding, Agreements, representations and warranties if any, with respect to such subject matter, which precede or accompany the execution of this Agreement.

**21. GENERAL**

**21.1. Binding Effect:**

This Agreement shall be binding upon and inure to the benefit of the Parties here to and their respective legal successors.

**21.2. Counterpart:**

This Agreement may be executed simultaneously in 2 (two) counterparts, each of which shall be deemed to be original and all of which together shall constitute the same Agreement.

**21.3. Non-Partnership:**

21.3.1. This Agreement shall be on a principal-to-principal basis and shall not create any principal- agent relationship between the Parties.

21.3.2. Nothing in this Agreement shall be deemed to constitute a partnership or joint venture between the Parties or otherwise entitle either Party to have an authority to bind the other Party for any purpose.

**21.4. Severability:**

In the event any provision of this agreement is held invalid or un-enforceable by a court of competent jurisdiction, such provision shall be considered separately and such determination shall not invalidate the other provisions of this agreement and annexure/s which will be in full force and effect.

**21.5. Waiver:**

A failure by any Party to exercise or enforce any rights conferred upon it by this Agreement shall not be deemed to be a waiver of any such rights or operate so as to bar the exercise or enforcement thereof at any subsequent time.

**21.6. Time is of essence:**



Time is the essence of this agreement and the Parties herein agree and acknowledge to abide by the same.

## **22. Miscellaneous**

- 22.1. No Party to this agreement will have any rights or obligations arising from or in relation to this agreement in excess of those rights and obligations expressly declared herein.
- 22.2. No Party to this agreement is entitled to sell, assign or otherwise transfer any of its rights and/or obligations arising from or in relation to this agreement to any third party, without the prior written consent of the other Party of this agreement.
- 22.3. Each Party shall be solely responsible for its own actions or failures to act and for its own commitments and undertakings. Neither Party shall present itself as the representative or agent of the other Party, nor shall it have the power or the authority to commit the other Party, unless it receives the other Party's prior written consent.
- 22.4. No release shall be made by any Party to the news media or the general public relating to this agreement and/or the subject matter thereof without prior written approval of the other Party.
- 22.5. During the term of this agreement, each party shall refrain from taking any action or attempt to take any action with the intent of impairing or causing prejudice to the business relationship, whether existing or prospective that subsists between the other party and its customers and business partners. Each party shall also desist from inducing or influencing or attempting to induce or influence any customer or business partner, whether existing or prospective of the other party, resulting into prejudice or detriment to business prospects of the other party.

Furthermore, Parties shall not compete with or cause detriment to the business prospects of each other by making use of confidential information, whether in its embodied or disembodied form, shared pursuant to this agreement.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement as of the day and year first above written.

For RailTel Corporation Of India Limited

Authorised Signatory

Name:

Designation:

In Presence of witness

Signature:

Name:

Address:

For XXXX

Authorized Signatory

Name

Designation:

Signature:

Name:

Address:

**Annexure 12****FORMAT FOR AFFIDAVIT TO BE UPLOADED BY BA ALONGWITH THE EOI  
DOCUMENTS**

(To be executed in presence of Public notary on non-judicial stamp paper of the value of Rs. 200/-The paper has to be in the name of the BA) \*\*

I \_\_\_\_\_ (Name and designation) \*\* appointed as the attorney/authorized signatory of the BA (including its constituents), M/s (hereinafter called the BA) for the purpose of the EOI documents for the work of \_\_\_\_\_ as per the EOI No.

of (RailTel Corporation of India Limited), do hereby solemnly affirm and state on the behalf of the BA including its constituents as under:

1. I/we the BA (s), am/are signing this document after carefully reading the contents.
2. I/we the BA(s) also accept all the conditions of the EOI and have signed all the pages in confirmation thereof.
3. I/we hereby declare that I/we have downloaded the EOI documents from RailTel website [www.railtelindia.com](http://www.railtelindia.com). I/we have verified the content of the document from the website and there is no addition, no deletion or no alternation to be content of the EOI document. In case of any discrepancy noticed at any stage i.e., evaluation of EOI, execution of work or final payment of the contract, the master copy available with the RailTel Administration shall be final and binding upon me/us.
4. I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5. I/we also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6. I/we declare that the information and documents submitted along with the EOI by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7. I/we undersigned that if the certificates regarding eligibility criteria submitted by us are found to be forged/false or incorrect at any time during process for evaluation of EOI, it shall lead to forfeiture of the EOI EMD besides banning of business for five years on entire RailTel. Further, I/we (insert name of the BA) \*\* and all my/our constituents understand that my/our constituents understand that my/our offer shall be EMD rejected.
8. I/we also understand that if the certificates submitted by us are found to be false/forged or incorrect at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of EMD/SD and Performance guarantee besides any other action provided in the contract including banning of business for five years on entire RailTel.

DEPONENT

VERIFICATION

SEAL AND SIGNATURE OF THE BA

I/We above named EOI do hereby solemnly affirm and verify that the contents of my/our above affidavit are true and correct. Nothing has been concealed and no part of it is false.

DEPONENT

Place:

Dated:

SEAL AND SIGNATURE OF THE BA

**\*\*The contents in Italics are only for guidance purpose. Details as appropriate, are to be filled in suitably by BA.**  
Attestation before Magistrate/Notary Public.

Signature of Bidder .....

Name: .....

Designation .....

Place: .....

Date: .....

Seal of BA Organization



**COCHIN PORT AUTHORITY**

Tele: 91-0484 -2666639/0484-258-2300/2305

Telefax: 91-0484-2666639

E-mail: [cme@cochinport.gov.in](mailto:cme@cochinport.gov.in),  
[dycmeele@cochinport.gov.in](mailto:dycmeele@cochinport.gov.in)

Website: [www.cochinport.gov.in](http://www.cochinport.gov.in)

Tender document for

**Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of Cochin Port Authority, including 2 years' guarantee and thereafter 5 years comprehensive AMC**

**(TECHNICAL BID)**

Office of the Chief Mechanical Engineer,  
Cochin Port Authority,  
Willingdon Island, Cochin- 682009.



## **COCHIN PORT AUTHORITY**

Tele: 91-0484-2666639/0484-2582300

website: [www.cochinport.gov.in](http://www.cochinport.gov.in)

TeleFax: 91 0484 2666639

Email: [cme@cochinport.gov.in](mailto:cme@cochinport.gov.in)

[dycmeele@cochinport.gov.in](mailto:dycmeele@cochinport.gov.in)

Office of the  
Chief Mechanical Engineer,  
Cochin Port Authority,  
Willingdon Island,  
Cochin-682 009, Kerala.

### **Section-I** **Notice Inviting Tender**

1. Tenders are invited through Government e- Marketing Place (GeM portal) in Single Stage Two Cover bidding procedure [Technical Bid and Financial Bid], by the Chief Mechanical Engineer, Cochin Port Authority, Willingdon Island, Cochin-682009, from Proprietorship/ individual/Limited company/LLP meeting the Minimum Qualification Criteria specified below for **“Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of CoPA, including 2 years guarantee and 5 years comprehensive AMC thereafter”**. Tenderers, who fulfill the Minimum Qualification Criteria and Terms and Conditions given below, may register their tenders through GeM well in advance on or before the scheduled date of submission.

2. **Minimum Qualification Criteria(MQC):**

The tenderer must fulfill the following Minimum Qualification Criteria to prove the techno-commercial competence and submit the documents in support thereof:

- 2.1. **Experience:**

- a) The Tenderer should be either an Original Equipment Manufacturer (OEM) or an Authorized Dealer / System Integrator of IP CCTV Security cameras. The Authorised Dealer/ System integrator should meet MQC.
    - b) In the case of Authorized Dealer, valid dealership certificate shall be furnished along with the Technical Bid.
    - c) The tenderer should have the experience of successfully carried out **similar work** as mentioned below, during the last 7 years as on **31/10/2024** to Government Departments/ Reputed Private organizations.
      - a. Three similar completed works each costing not less than **Rs.71,04,436/-**  
(OR)
      - b. Two similar completed works each costing not less than **Rs.88,80,545/-**  
(OR)
      - c. One similar completed work costing not less than **Rs.1,42,08,871/-**.

“Similar work(s)” means “Supply, installation, testing and commissioning of IP based CCTV surveillance systems”.

**2.1. Financial Turnover:** Average Annual Financial Turnover of the tenderer during the last three financial years, ending **31/03/2024** (viz. 2021-22, 2022-23 and 2023-24) shall not be less than **Rs.53,28,327/-**

**2.2.** The tenderer should submit the following documents along with the tender to prove the MQC:

- (i) Notarized copies of Work Order / Contract Agreement and certificate of satisfactory performance / completion, with work order number and value of the item(s), issued by the Client as proof for having satisfactorily supplied, installed, tested and commissioned CCTV Surveillance system and accessories. Details of such contracts shall be furnished as per Annexure-4a & 4b.
- (ii) Enhancement factors as per table given below will be used for the costs of works executed for bringing the financial figures to a common base value in respect of the works completed in past years.

Year before	Multiplying factor
One year 2023	1.07
Two years 2022	1.14
Three years 2021	1.21
Four years 2020	1.28
Five years 2019	1.35
Six years 2018	1.42

- (iii) The experience certificate of contracts executed in private sectors / organizations shall be considered for qualification only on submission of Form 26 AS.
- (iv) A statement duly certified by the Chartered Accountant showing the Average Annual Financial Turnover during the last three financial years, (viz. 2020-21, 2021-22 and 2022-23) and Annual Accounts duly certified by a Chartered Accountant shall be submitted along with the tender. Chartered Accountant will provide their UDIN (Unique Document Identification Number) while certification with QR code if available.

**2.3.** The entire installation should be under guarantee for 2 years. All the CCTV cameras, Racks, Network switches, POE switches, SFP switch, UPS, P2P link, Rack Mount Recorder, HDD, High End work station, professional display & PTZ joy stick controller shall be covered under OEM warranty for 5 years. The Bidder shall submit valid authorized MAF certificate issued by the OEM in the attached format (Annexure-D) along with Tender Reference Number for these items, failing which the Bid will not be considered for evaluation.

**2.4.** The Bidder/OEM shall have own/authorized service centre in South India for the past 5 years. The address of the Authorized service centre shall be furnished in the Bid, failing which the Bid will not be considered for evaluation.

**2.5.** Bidder must be in Surveillance business for at least the last 5 Years. Documentary proof has to be submitted in the Bid, failing which the Bid will not be considered for evaluation. (PO & Work Completion)

- 2.6.** The tenderer may visit the site and assess the present network & cameras and new requirements before submission of the offer for total CCTV solutions

**3. Other Eligibility Considerations:**

Even though the tenderers meet the above qualifying criteria, they are subject to be disqualified if they have (i) made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or (ii) record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.. In this regard the firm should submit a declaration that they have no record of poor performance, at the time of submitting the tender.

- 4.** Pertinent information to the tender is given in the following tables.

**Table (1)**

<b>No.</b>	<b>Item</b>	<b>Details</b>
1	Name of the items to be supplied	<b>Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of CoPA including 2 years guarantee and 5 years comprehensive AMC thereafter.</b>
2	Employer	Cochin Port Authority
3	Employer's Representative	Chief Mechanical Engineer
4	Executing Authority	Chief Mechanical Engineer
5	Estimated Amount put to Tender	<b>Rs.1,77,61,089/- including GST for the work including CAMC for 5 years after 2 years guarantee period</b> (Rupees One Crore Seventy Seven Lakhs Sixty One Thousand Eighty Nine only)
6	Earnest Money Deposit (Exemption given as per Cl.no.9 below)	<b>2% of estimate amount: Rs.3,55,230/-.</b> ( The EMD shall be furnished in the form of Account Payee Demand Draft/ Banker's Cheque/Bank Guarantee from a any Commercial Bank in India in favour of "FA&CAO, Cochin Port Authority", encashable at Cochin or online payment in an acceptable form safeguarding the purchaser's interest in all respects. )
7	Validity period of Tender	90 days
8	Completion Period	90 days from the date of issue of LoA

**5. The Scope of the work is:**

- (i) The requirement, calls for a complete working system and not components thereof. Bids must be complete with all equipment and required accessories along with necessary power systems including standard video connectors, patch connectors, patch leads, mounting and fitting hardware, plugs, sockets and any hardware/software, etc. as required for complete installation of the System under this contract.
- (ii) The scope of this tender includes, Supply installation and commissioning of IP based CCTV surveillance system, involving fixed/PTZ cameras and ANPR IP cameras at various locations compatible to the existing system.
- (iii) **Functional requirement:**
  - a) Easy and convenient operation
  - b) Stability
  - c) Back-up as evidence for 90 days
  - d) Cameras shall be manufactured with high reliable components, with long lifespan.
  - e) The contractor shall ensure that the system is supplied, installed and commissioned as per user's satisfaction.
  - f) The contractor has to provide Media as required for all the software.
  - g) The installed system shall have the latest version of the applicable software.
  - h) The scope also includes making good defective materials/items and the workmanship during the 2-year guarantee/5-year OEM warrantee periods, as the case may be.
  - i) The contractor shall ensure that the system is supplied, installed and commissioned as per the Scope of work.

- 6. The Tenderer shall provide VMS system and Server compatible to the new CCTV cameras that are proposed to be provided in this tender and the old existing CCTV cameras already available at CoPA premises.** The tenderer may visit the location and assess the present network & cameras and new requirements before submission of the offer for total CCTV solutions.
- 7.** Cochin Port Authority will not be held responsible for any technical snag or network failure during online bidding. It is the bidder's responsibility to comply with the system requirement, i.e. hardware, software and internet connectivity, at bidder's premises to access the GeM Portal.
- 8.** Under any circumstances, Cochin Port Authority shall not be liable to the bidders for any direct/indirect loss or damages incurred by them, arising out of incorrect use of the GeM Portal or internet connectivity failures. The bidder is responsible to download Addendums/ Amendments/ Errata/ Replies to the queries of the bidder etc., if any, issued by the Employer, from the website before submission of the bid. Any shortfall in submissions of the said Addendums/ Amendments/Errata/Replies to the queries of the bidder duly signed etc. along with the downloaded documents while submitting the bid will not be considered. Incomplete bid documents may be rejected.
- 9.** Bank details of Cochin Port Authority are as follows: State Bank of India, Cochin Port Authority Branch, IFSC Code: SBIN0006357, Account No.41401802288.
- 10. Exemption from the payment of EMD and Cost of Tender document shall be given to Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy**



**issued by Department of Micro, Small and Medium Enterprises (MSME) or are registered with the Central Purchase Organization or the concerned Ministry or Department as provided in GFR 2017. In this regard the firm should submit valid certificate along with QR Code.**

11. The bidders have to execute an “Integrity Pact”(IP) as per the format enclosed in the tender document and also available in the CoPA’s website [www.cochinport.gov.in](http://www.cochinport.gov.in). The Tenderer should sign and upload the “Integrity Pact” duly signed in all the pages duly affixing the firm’s seal, in techno-commercial bid. Bids not accompanied by a duly signed “Pre-Contract Integrity Pact” shall be liable for rejection.
12. The Independent External Monitors (IEM) for Cochin Port are as follows:
  - 1) Shri. M J Joseph, ICAS (Rtd.)  
37, Da Costa Square, 3rd Cross,  
Cooke Town, Bangalore – 560 084  
Email: [joseph.iem@cochinport.gov.in](mailto:joseph.iem@cochinport.gov.in)
  - 2) Shri. Punati Sridhar, IFoS(Retd)  
8C, Block -4, 14-C Cross,  
MCHS Colony, HSR 6th Sector,  
Bangalore -560102  
Email ID :[sridhar.iem@cochinport.gov.in](mailto:sridhar.iem@cochinport.gov.in)
13. The bidder should not have been blacklisted or debarred by any Central / State Government / Agency of Central / State Government / Public Sector Undertaking / Regulatory Authority of India at the time of submission of this bid. In this regard the firm should submit a declaration that they have not been blacklisted or debarred by any Central / State Government/ Agency of Central / State Government / Public Sector Undertaking / Regulatory Authority of India at the time of submission of bid.
14. The undersigned reserves the right to reject/cancel/postpone/annul the tenders at any stage of the tender without assigning any reason thereof, which will be binding on all bidders.
15. This tender notice shall form part of the tender document and are to be signed and uploaded along with the technical bid.

**Sd/-**  
**CHIEF MECHANICAL ENGINEER**  
**COCHIN PORT AUTHORITY**

## **SECTION-II INSTRUCTIONS TO TENDERERS**

### **1. Introduction**

- 1.1 Tenders are invited through GeM portal in Single Stage Two Cover bidding procedure [Technical Bid and Financial Bid], by the Chief Mechanical Engineer, Cochin Port Authority, Willingdon Island, Cochin-682009 from Proprietorship/ Individual/Limited company/LLP meeting the Minimum Qualification Criteria specified for the **“Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of CoPA, including 2 years guarantee and 5 years comprehensive AMC thereafter”**, as per the Scope of Work and Technical Specifications given in the tender document. The site is at Willingdon Island, Cochin.

### **2. General Instructions**

- 2.1. The Contract is to be executed as described in the Bid document and in particular in the Scope of Work and Technical Specification, General Conditions of Contract, Bill of Quantities etc.
- 2.2. Before submitting the bid, the tenderer shall examine carefully all conditions of contract, specifications, etc. supplied herewith. It will be deemed that prior to the submission of tender, the tenderer has satisfied himself as to the nature and location of the supply, general and local conditions, working conditions etc. and that the tenderer has estimated his cost accordingly and the Port Authority will be in no way responsible for the lack of such knowledge and also consequences thereof to the tenderer.
- 2.3. A tenderer shall be deemed to have full knowledge of all documents, working conditions etc. The submission of a bid by the bidder implies that he has read the Notice and Conditions of Contract and has made himself aware of the scope and specifications and other factors bearing on the bid and that they are binding on him.
- 2.4. The tenderer please note that the EMPLOYER will not entertain any correspondence or query on the status of the offers received against this Bid. Bidders are also requested not to depute any of their personnel or agents to visit the Employer's offices for making such enquiries till finalization of the bid. Should the EMPLOYER find it necessary to seek any clarification, technical or otherwise, the concerned bidder will be duly contacted by the EMPLOYER.
- 2.5. Canvassing in any form by the bidder or by any other agency acting on behalf of the bidder after submission of the bid may disqualify the said bidder. The Employer's decision in this regard shall be final and binding on the bidder.
- 2.6. In case of an unscheduled holiday on the prescribed closing/opening day of the bid, the next working day will be treated as the scheduled day of closing/opening of the bid.
- 2.7. While evaluating the document, regard would be paid to National Defense and Security Considerations, at the discretion of the Cochin Port Authority. Bid received from any bidder may be summarily rejected on National Security Consideration without any intimation thereof to the bidder.
- 2.8 If there are varying or conflicting conditions in the tender documents, the conditions in the General Conditions of Contract (GCC) will prevail.
- 2.9. The Contractor shall be registered under GST and shall furnish documentary evidence in support of valid GST registration.

- 2.10. Exemption from the payment of EMD shall be given to Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) or are registered with the Central Purchase Organization or the concerned Ministry or Department as provided in GFR 2017. In this regard the firm should submit valid certificate along with QR Code along with the tender, for claiming the available exemptions.

**3. Invitation for Bids:**

- 3.1. The Invitation for Bids is open to all eligible bidders meeting the Minimum Qualification Criteria.

**4. Clarification of the Bidding Documents:**

The tenderers are advised to examine the Tender Document carefully and if there be or appear to be any ambiguity or discrepancy in the documents, or any clarifications needed on the Tender Documents; these shall be referred to the Chief Mechanical Engineer in writing at the following address, so as to reach them before the pre-bid meeting. It is to be noted that queries, clarifications received after the above date will not be considered.

Address: Chief Mechanical Engineer,  
Cochin Port Authority, Willingdon Island,  
Cochin, 682009, Kerala, India.  
Phone: 91-0484-2666639/2582300 /2305, Fax: 91-0484-2666639  
Email: [cme@cochinport.gov.in](mailto:cme@cochinport.gov.in)/[dycmeele@cochinport.gov.in](mailto:dycmeele@cochinport.gov.in)

**5. Pre-Bid Meeting:**

- 5.1. A prospective tenderer requiring any clarification of the tender shall submit their queries in writing/e-mail in advance before the pre-bid meeting. The Pre-Bid meeting will be held through Video Conference and the link will be shared to the bidders on their request. The bidders who wish to attend the Pre-bid Meeting may send clarifications well in advance by email to the Chief Mechanical Engineer so as to share the link for attending the meeting through Video Conference.

**6. Amendment of Bidding Documents:**

- 6.1. The Chief Mechanical Engineer, Cochin Port Authority shall have the right to revise or amend the Bid documents prior to the due date of submission of the Bid by issuance of addenda/corrigenda. Any addendum/ corrigendum thus issued shall be part of the tender document. The addendum/ corrigendum, if any, shall only be hosted in the GeM portal as well as in the website of the Cochin Port and CPP Portal. It is the responsibility of the Bidders to download such addenda/ corrigenda hosted in the website and upload the same duly signed along with the Bid. In order to afford the Bidders reasonable time to take any addendum into account, or for any other reason, the Port may, at its discretion, extend the due date for submission of Bid and Bid Extension Notice shall be hosted in the GeM portal and web site.

**7. Preparation of bids:**

- 7.1. All documents relating to the bid shall be in the English language.

## 8. Bid Prices:

- 8.1. In the GeM Price Bid, the tenderers are requested to quote the total cost for **Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of CoPA, including 2 years guarantee and 5 years comprehensive AMC thereafter**, including GST.

All the CCTV cameras, Racks, Network switches, POE switches, SFP switch, UPS, P2P link, Rack Mount Recorder, HDD, High End work station, professional display, PTZ joy stick controller shall be covered under OEM warranty for 5 years (Item Nos.1,2,3,4,6,7,8,9,19,22,24,28,29, 30,31,32,33,34,35,36 of BOQ). **This may be considered while quoting for AMC rate by the bidder.**

Tenderer should ensure that his tendered price as per Price bid is not mentioned anywhere in any other documents in Technical bid submission, directly or indirectly. If any such mention is made, the tender will become invalid and shall become liable for rejection.

The rate quoted by the Tenderer shall be inclusive of the cost of provision of plant and equipment, materials, labour, execution, supervision, maintenance, overheads and profits and every incidental and contingent cost and charges whatsoever and also including Goods and Service Tax (GST). **Evaluation of price for Comprehensive AMC for 5 years will be carried out at the Discounted Factor of 7%.**

## 9. Currencies of Bid and Payment:

The price shall be quoted by the bidder entirely in Indian National Rupees (INR).

## 10. Bid Validity:

Bids shall remain valid for a period not less than 90 (Ninety) days after the deadline date for bid submission. A bid valid for a shorter period shall be rejected by the Employer as nonresponsive. Should any tenderer withdraw his tender before these periods, or make any modification in the terms and conditions of the tender which are not acceptable to the department, the earnest money deposited by the tenderer shall be forfeited.

## 11. Bid Security /EMD:

- 11.1. Each tender should be accompanied by an Earnest Money Deposit amounting to **Rs.3,55,230/-**. The EMD shall be furnished in the form of Account Payee Demand Draft/ Banker's Cheque/Bank Guarantee from a any Commercial Bank in India in favour of "FA&CAO, Cochin Port Authority" encashable at Cochin or online payment in an acceptable form safeguarding the purchaser's interest in all respects. The Earnest Money deposit will not carry any interest. Any bid not accompanied by an acceptable Bid Security shall be treated as Non- responsive and shall be rejected by the Employer. Exemption shall be given to Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) or are registered with the Central Purchase Organization or the concerned Ministry or Department).

## 11.2 Forfeiture of Bid security / EMD

Bid Security/EMD will be forfeited in the following cases:

- (a) If a Bidder withdraws his bid during the period of bid validity.
- (b) The Bidder does not accept the correction of the Bid Price pursuant to any arithmetical errors.
- (c) In case of a successful bidder who fails
  - (i) to commence the work, within the specified time limit
  - (ii) to sign the Agreement or furnish the required Performance Security within the specified time limit

## 12. No Alternative Proposals by Bidders:

Bidders shall submit offers that comply with the requirements of the bidding documents. Alternatives will not be considered.

## 16. Bid Submission: Bid shall be submitted in prescribed form in two parts: Technical Bid and Financial Bid.

### 13.1. Part-I, Technical Bid:

Technical Bid Documents to be submitted through GeM portal, and should contain the scanned copies of the following documents.

- 13.1.1. EMD or MSME Udyam Registration certificate along with QR code, as applicable
- 13.1.2. Letter of Submission(vide *Annexure-1*)
- 13.1.3. Power of Attorney in favour of signatory/s to the Tender, duly authenticated by Notary Public. (vide *Annexure-2*)
- 13.1.4. Organization Details(vide *Annexure-3*)
- 13.1.5. (a) Proof of experience in support of MQC as per *Annexure-4a&4b*.
  - (b) Proof that the tenderer is an Original Equipment Manufacturer (OEM) or authorized dealer. (The OEM who proposes to participate in the bidding process shall produce the certificate of incorporation or registration certificate. In the case of authorized dealer, the firm has to produce the valid Manufacturer Authorization Form(MAF) from the OEM).
  - (c) MAF may be submitted stating that the OEM shall support the Bidder with spares for 5 years from the date of installation & commissioning. (Annexure-D)
  - (d) MAF may be submitted for all the items with 5 year warranty viz.
    - i. All the CCTV cameras
    - ii. Racks
    - iii. Network switches
    - iv. POE switches.
    - v. SFP switch
    - vi. UPS
    - vii. P2P link
    - viii. Rack Mount Recorder(VMS+Video/Database Management Server+Camera Recording Server)
    - ix. HDD

- x. High End Workstation
- xi. Professional display
- xii. PTZ joy stick controller

13.1.6. Financial documents in support of MQC. Statement duly certified by Chartered Accountant showing Average Financial Turnover of the tenderer over the last three financial years [2021-22, '2022-'23 & 2023-'24] (vide **Annexure-5**)

13.1.7. Integrity Pact, duly signed (**vide Annexure-11**)

13.1.8. Declarations by the bidder as per **Annexure-8, Clause no.3.1 and clause no.10 of NIT**

13.1.9. Copies of PAN, GST Registration and Bank Information for e-payment.

13.2. **Part II: Financial Bid:** Tenderers shall submit the BoQ / Price Bid in GeM portal.

**14. Deadline for Submission of the Bids:**

14.1. Tenders attaching all documents shall be submitted through GeM portal strictly in accordance with the instructions to the tenderers terms and conditions of the tender document before the time and the date notified.

**15. Clarification of Bids**

15.1. Chief Mechanical Engineer shall ask for clarification/shortfall of documents before technical evaluation of the tenders. The request for clarification and the response shall be in writing, but no change in the price or substance of the Bid shall be sought, offered, or permitted.

15.2. Any effort by the Bidder to influence the Employer's bid evaluation, bid comparison or contract award decisions, may result in the rejection of his bid.

**16. Evaluation and Comparison of Bids:**

16.1. Evaluation of Price Bid

16.1.1. The tenderers shall quote their total cost for all the items as per schedule, including GST, in the GeM portal.

16.1.2. Only those tenders, as determined to be substantially responsive to the requirements of the Tender Documents will be evaluated. Other non-responsive tenders will be rejected. Cochin Port's decision on this shall be final, conclusive and binding.

16.1.3. In order to determine the lowest evaluated bid, Cochin Port Authority will consider overall lowest of all the items together.

**17. Alteration of tender documents:**

17.1. No alteration shall be made in any of the tender documents or in the Bill of Quantities and the tender shall comply strictly with the terms and conditions of the tender document.

## 18. Award of Contract:

- 18.1. The Employer will award the Contract to the bidder whose offer has been pre-qualified in the technical evaluation as responsive to the bidding documents and has been determined to be the lowest evaluated tender for all the items together.

## 19. Performance Security/Security Deposit:

- 19.1 The successful bidder is required to furnish Security Deposit within 21 days from the date of issue of Letter of Acceptance (LoA), to guarantee fulfillment of performance and the obligations of the contract, in any one of the following forms:
- i) Account Payee Demand Draft/Bank Guarantee from a any Commercial Bank in India in favour of FA&CAO, Cochin Port Authority;
  - ii) An irrevocable and unconditional Bank Guarantee as per the Format enclosed in Annexure A of tender document, from a any Commercial Bank in India encashable in Cochin;
  - iii) On-line payment to the Bank Account of Cochin Port Authority indicated in Clause 12 of Notice Inviting Tender.
- 19.2 **The value of Security Deposit shall be equivalent to 10% of the total contract value for the 'SITC of 35 nos. of IP CCTV security cameras at various locations of CoPA'.** Out of 10% of the Security Deposit, **5% is in the form of Account Payee Demand Draft/ Banker's Cheque/ Bank Guarantee** from a Commercial Bank in favour of "FA&CAO, Cochin Port Authority", encashable at Cochin or online payment in an acceptable form safeguarding the purchaser's interest in all respects and **5% in the form of retention money from the bill.**
- 19.3 In case the Security Deposit is furnished as Bank Guarantee, the same should remain valid for a period of 60 days beyond the completion of guarantee period. Failure to submit security deposit within stipulated period will entitled CoPA to terminate the agreement/cancel the LoA.
- 19.4 Cochin Port Authority is not bound to pay interest on the Security Deposit furnished by the successful bidder.
- 19.5 In the event of the Contractor failing to honour any of the commitments entered into under this Contract, Cochin Port Authority shall have unconditional option to encash the Security Deposit. The bank shall be obliged to make payment to Cochin Port Authority upon demand.
- 19.6 In the event of the tenderer, after the issue of the communication of acceptance of offer by the Board, failing /refusing to execute the agreement as hereinafter provided, the tenderer shall be deemed to have abandoned the contract and such an act shall amount to and be construed as the Contractor's calculated and the willful breach of the contract, the cost and consequence of which shall be to the sole account of the tenderer and upon such an event the Board shall have full right to claim damages therefore either together with or in addition to suspension of the bidder from participating in the Tenders invited by Cochin Port Authority, for a period of two years from the date of such suspension. Also, failure to execute the agreement within stipulated period will entitled CoPA to cancel the LoA.
- 19.7 The security deposit submitted for the work of 'SITC of CCTV cameras & accessories' shall be discharged by the Employer and returned to the Contractor not later than Twenty one (21) days following the date of Completion of the 2-year guarantee period and only after submission of security deposit for the 5-year AMC contract. If the

contractor does not submit security deposit for AMC and execute the work, then the security deposit submitted towards 'SITC of CCTV cameras & accessories' shall be forfeited.

- 19.8 Separate order shall be issued for AMC of the **35 nos. of IP CCTV security cameras** before the expiry of 2-year guarantee period and separate security deposit for 10% of total AMC cost shall be furnished for covering the 5 year AMC period, in the form of Account Payee Demand Draft/ Banker's Cheque/ Bank Guarantee from a Commercial Bank in favour of "FA&CAO, Cochin Port Authority", encashable at Cochin or online payment in an acceptable form safeguarding the purchaser's interest in all respects and separate agreement for the AMC shall be executed. The security deposit furnished for the 5-year AMC contract will be released and returned to the contractor not later than Twenty one (21) days following the date of Completion of the entire AMC period.

#### **19.9 Release of Bid Security/EMD:**

The Bid Security/EMD of unsuccessful bidder other than L1 will be refunded immediately after ranking of the Bids. The Bid Security of the successful bidder will be discharged after he has signed the Agreement and furnished the required Performance Security.

#### **20. Signing of Agreement:**

- 20.1. The successful tenderer will be required to execute an Agreement at his expense within 21 (twenty one) days from the date of Letter of Acceptance (LoA), on proper value Kerala State Stamp Paper in the prescribed form as per Annexure-B. Agreement can be entered only after furnishing of Security Deposit by the contractor. The agreement as finally executed will include the Employer's Bid Documents and the Tenderer's offer as finally accepted by the EMPLOYER together with addendum/corrigendum, bid clarification and all correspondences exchanged between EMPLOYER and the bidder, if any. Till the formal agreement is executed, the Letter of Acceptance together with the offer as finally accepted along with correspondences shall form a binding contract between the two parties. Failure to execute the agreement within stipulated period will entitle CoPA to cancel the LoA.

#### **21. Fraud and Corrupt Practices:**

- 21.1 The bidder and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Selection Process. Notwithstanding anything to the contrary contained in this document, the Port shall reject the tender without being liable in any manner whatsoever to the bidder, if it determines that the bidder has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice (collectively the "Prohibited Practices") in the Selection Process. In such an event, the Port shall, without prejudice to its any other rights or remedies, forfeit and appropriate the Bid Security or Performance Security, as the case may be, as mutually agreed genuine pre-estimated compensation and damages payable to the Port for, inter alia, time, cost and effort of the Authority, in regard to the Tender, including consideration and evaluation of such Bidder's Proposal. Such Bidder shall not be eligible to participate in any tender or RFP issued by the Authority during a period of 2 (two) years from the date such Bidder is found by the Authority to have directly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as the case may be.



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

(a) “corrupt practice” means

- (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of any person connected with the Selection Process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the Authority who is or has been associated in any manner, directly or indirectly with the Selection Process or the LoA or has dealt with matters concerning the Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the Authority, shall be deemed to constitute influencing the actions of a person connected with the Selection Process; or
- (ii) engaging in any manner whatsoever, whether during the Selection Process or after the issue of the LoA or after the execution of the Agreement, as the case may be, any person in respect of any matter relating to the Project or the LoA or the Agreement, who at any time has been or is a legal, financial or technical consultant/ adviser of the Authority in relation to any matter concerning the Project;

(b) “fraudulent practice” means a misrepresentation or omission of facts or disclosure of incomplete facts, in order to influence the Selection Process;

(c) “coercive practice” means impairing or harming or threatening to impair or harm, directly or indirectly, any persons or property to influence any person’s participation or action in the Selection Process;

(d) “undesirable practice” means

- (i) establishing contact with any person connected with or employed or engaged by the Authority with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Selection Process; or
- (ii) having a Conflict of Interest; and

(e) “restrictive practice” means forming a cartel or arriving at any understanding or arrangement among Applicants with the objective of restricting or manipulating a full and fair competition in the Selection Process.

## **22. Rejection of Tender:**

22.1. Any Tender not conforming to the foregoing instructions will not be considered. The Employer does not bind himself to accept the lowest or any tender and has the right to reject or discharge the tender without assigning any reason.

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### **SECTION-III**

#### **GENERAL CONDITIONS OF CONTRACT (GCC)**

- 1. Definitions:** In the Contract (as hereinafter defined) the definition of the following words and expressions shall have the meanings hereby assigned to them except where the context otherwise requires:
- a) "Approved" or "Approval" shall mean approval in writing.
  - b) "Contractor/Supplier" means the person or persons, firm, corporation or company whose tender to perform the Contract has been accepted by the Employer and is named as such in the Contract Agreement and includes his servants, agents and workers, personal representatives, successors and permitted assigns.
  - c) "Contract" means the Contract Agreement entered into between the Employer and the Contractor, together with Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
  - d) "Contract Documents" means the documents listed in the contract agreement, including any amendments thereto.
  - e) "Contract Price" means the total sum of money (including GST) to be paid by the Employer to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.
  - f) "Completion" means the fulfilment of the supply of Equipments and Related Services by the supplier in accordance with the terms and conditions set forth in the contract.
  - g) "Commercial Use" means use of Goods which the contractor contemplates or of which it is commercially capable after enacting at project site.
  - h) "Chief Mechanical Engineer" shall mean the Chief Mechanical Engineer of Cochin Port Authority and includes any officer who is authorized on his behalf for the purpose of this contract.
  - i) "Day" shall mean English Calendar Day.
  - j) The "Drawings" shall mean the drawings, issued with the specification which will ordinarily be identified by being signed by the Chief Mechanical Engineer and any further drawing submitted by the supplier with his tender and duly signed by him and accepted or approved by the Chief Mechanical Engineer and all other drawings supplied or furnished by the suppliers or by the Chief Mechanical Engineer in accordance with these contract conditions.
  - k) Employer/Cochin Port Authority/CoPA/Port/Board" means Board of Major Port Authority for Cochin Port, a body corporate under the Major Port Authorities Act, 2021, by notification issued by the Government of India, acting through its Chairperson, Dy. Chairperson or Chief Mechanical Engineer or Deputy Conservator or any other officers so nominated by the Board.
  - l) "Employer's Country" is INDIA.
  - m) "Equipment/Goods", means all of the commodities, raw materials, machinery and equipment, and/or other materials that the Contractor is required to supply to the Employer under the contract.
  - n) "GCC" means the General Conditions of Contract.
  - o) "Month" shall mean English Calendar Month.
  - p) "Engineer"/ "Officer in-Charge" means Employee of Employer or any other person, nominated by the Employer.

- q) **"Specifications"** means the specification referred to in the tender documents and any modifications thereof or additions thereto or amendments thereto as may be from time to time be furnished or approved in writing by the Employer .
- r) The **"Schedule"** shall mean the schedule or Schedules attached to the specifications.
- s) **"Start Date"** The start date shall be seven days from the date of issue of LoA/LoI

**2. Contract Documents:** Subject to the order precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative. Any suit or other proceedings relating to this contract shall be filed, taken by the contractor in a Court of Law only in Cochin.

2.1 Dock Safety : For the work carried out within dock area in the vicinity of any wharf or quay the Contractor shall abide by all the provisions of the Dock workers (Safety, Health & Welfare) Regulation 1990 or as amended from time to time.

2.2 Workmen Compensation:

The contractor shall indemnify the Employer in the event of the Trustees being held liable to pay compensations for injury to any of the contractor's servants or workmen under the Indian Employees Compensation Act, 1923 as amended from time to time and shall take out an Insurance Policy covering all risks under the Act and shall keep the same renewed from time to time as necessary for the duration of the contract and produce the same to the Employer on demand whenever so required.

2.3 The following shall form part of the Contract Document:

- (1) Agreement
- (2) Letter of Acceptance and notice to proceed with works
- (3) Correspondence exchanged after the opening of the Bid and before the issue of Letter of Acceptance by which the Condition of Contract are amended, varied or modified in any way by mutual consent (to be enumerated).
- (4) Contractor's Bid
- (5) Contract Data
- (6) Conditions of Contract like ITT, GCC, Scope of work, Technical Specifications, General Instructions etc.
- (7) Bill of quantities and
- (8) Any other documents listed in the tender as forming part of the Contract

### **3 Settlement of Dispute and Arbitration:**

3.1 Conciliation: In the event of any dispute or differences between the parties which could not be resolved amicably by mutual consultations / Arbitration, then the Chairperson of Cochin Port Authority may refer such unresolved disputes or differences to a Conciliation Committee/Council comprising of independent subject experts, set up by the Port to enable speedy disposal of pending/new cases. Recourse to such conciliation shall be open before, during or after the arbitration proceedings. The award of the Conciliation Committee/ Council, if agreed by both the parties, shall then be placed for consideration of the Board of Cochin Port subject to the delegation of powers. Guidelines of CSC is available in CoPA's website.

3.2 Arbitration: In case of any dispute, doubt, questions or differences arising out of or in connection with this tender/agreement, it shall be referred to and finally resolved

through arbitration as per the provisions of the Arbitration & Conciliation Act, 1996 or any statutory modifications or re-enactment thereof and the rules made there under and for the time being in force, by the sole arbitrator to be appointed mutually by the parties within 30 days of serving the notice to start arbitration proceedings and the decision of the Arbitrator shall be final and binding on the parties. The language to be used in the arbitration shall be ENGLISH. The governing law of the agreement shall be the substantive law of India. The venue and seat of the arbitration shall be at Cochin. The fees and expenses of the Arbitrators and all other expenses of the Arbitration shall be equally shared by the parties. Only Courts in Cochin would have jurisdiction for adjudicating any disputes.

- 4 **Scope of Work:** The Goods and Related Services to be supplied shall be as specified in Scope of Work and Technical Specifications and in accordance with Schedule of Requirements.
- 5 **Delivery and Completion:** Subject to GCC Clause 23 (Change Orders and Contract Amendments) the delivery of the Goods and completion of the Related Services shall be done within 90 days from the date of receipt of Letter of Acceptance of Employer. The details of shipping and other documents to be furnished by the Contractor are specified in the GCC Clause 8 (Payments Terms).
- 6 **Contractor's Responsibilities:**
  - 6.1 The Contractor shall supply all the Goods and Related Services included in the Scope of Work in accordance with GCC Clause 4 and as per GCC Clause 5.
  - 6.2 **Phasing of Work:** The contractor will be required to furnish a phased programme of the works as to how he intends to complete the work to the Employer within 7 days from the date of receipt of the Letter of Acceptance from the Employer. The contractor shall indicate separate definite times for completion of various parts of the work. He will be required to adhere to such programme so as to complete the entire work within the stipulated completion period. The Contractor shall furnish progress report to the Employer on fortnightly basis for monitoring by the Employer, indicating delay, if any, its reason, and proposal to cover up the delay.

The work can be carried out only as per such plan approved by the employer. Based on the recommendations and directions of the employer, the contractor shall be liable to modify and resubmit the phased manner plan, and get the approval of the employer within reasonable time. Failure to submit the phased manner plan or failure to get the approval of employer for the submitted phased manner plan within the period stipulated or within reasonable time, respectively, shall be construed as a breach of obligation by the contractor of the contract. Failure of the contractor to meet the timelines mentioned in the approved phased manner plan shall also be construed as breach of obligation by the contractor.

- 6.3 **Procurement of materials:** The Contractor must make his own arrangements for timely procurement of all materials, machinery, equipment etc. of specified and or approved quality required by him for the efficient and regular execution of the works comprised in this contract from the manufacturers and suppliers concerned. Delay in supply of any of these materials, machinery, equipment etc. will not be taken as an excuse for not completing the contract within the stipulated period. Contractor shall notify the Employer of his proposed source of material prior to delivery.
- 6.4 **Compliance of regulations:** The contractor warrants that all Goods/Materials covered by the contract have been produced, sold, dispatched, delivered and furnished in strict

compliance with all applicable laws, regulations, labour agreement, working condition and technical codes and statutory requirements as applicable from time to time. The Supplier shall ensure compliance with the above and shall indemnify Employer against any actions, damages, costs and expenses of any failure to comply as aforesaid.

## 7 **Contract Price:**

- 7.1 Prices charged by the Contractor for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Contractor in its Tender, with the exception of any price adjustments authorized by the Employer by issuing Change orders and Contract Amendment, if any. Evaluation of AMC for 5 years will be carried out at the Discounted Factor of 7%.

## 8 **Terms of Payment:**

- 8.1 Payment shall be regulated as detailed below:
- 8.1.1 The Contractor shall be entitled upon certificates of the Engineer or his nominee to payments in accordance with the following provisions:
- 1) **For supply portion :** 75% of the value, as certified by the Engineer or his nominee, of the materials from time to time delivered on the site.  
Balance 25% after completing the work in all respects, commissioning and handing over the installation to the Employer to the satisfaction of the Engineer and his nominee and his certification.
  - 2) **For erection portion :**
    - i) 85% of the value as certified by the Engineer or his nominee, of the installation portion on completion of the erection work under contract, for which payments are claimed.
    - ii) Balance 15% along with other payments if any, after completing the work in all respects, commissioning and taking over the installation by the Employer to the satisfaction of the Engineer and his nominee and his certification.
- 8.2 All the interim payments shall be regarded as payment by way of advances against final payment only and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re-erected. Any certificate given by the Engineer or his nominee relating to the work done or materials delivered forming part of such payment, may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to which it relates is/are in accordance with the contract and specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in any way powers of the Engineer- or his nominee-charge under the contract or any of such payments be treated as final settlement and adjustment of accounts or in any way vary or affect the contract.
- 8.3 Pending consideration of extension of date of completion interim payments shall continue to be made as herein provided, without prejudice to the right of the department to take action under the terms of this contract for delay in the completion of work, if the extension of date of completion is not granted by the competent authority.
- 8.4 No further claims shall be made by the Contractor after submission of the final bill and these shall be deemed to have been waived and extinguished.
- 8.5 Items of the Works for which no rate or price has been entered in will not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.
- 8.6 All payments to the Contractor under the contract shall unless otherwise stated elsewhere be made to the Contractor in Indian currency through e- payments through

designated Bank.

**9 Taxes and Duties:**

- 9.1 The contract shall be treated as a works contract. The Contractor shall be responsible for remittance of all taxes, duties, license fees etc. incurred for the Supply, Installation, Testing and Commissioning of the items as per Bill of Quantities. GST shall be paid by the Employer to the Contractor.
- 9.2 Income Tax Deduction: Deduction of Income Tax shall be made from any amount payable to the Contractor as per the relevant provisions of the Income Tax Act as may be specified by the Central Government from time to time, on the gross amount of the Contractor's bill for payment.. The Contractor shall be responsible for payment of all personal income taxes to the concerned authorities as per the law in force from time to time.
- 9.3 TDS under GST Law: TDS under GST law shall be deducted at the prevailing rates. The Contractor shall comply all the GST Regulations viz. timely uploading of bills, issue of debit/ credit notes etc.

**10 Performance Security/Security Deposit:**

- 10.1 The successful bidder is required to furnish Security Deposit within 21 days from the date of issue of Letter of Acceptance (LoA), to guarantee fulfillment of performance and the obligations of the contract, in any one of the following forms:
  - (i) Account Payee Demand Draft/ BG from any Commercial Bank in India in favour of FA&CAO, Cochin Port Authority;
  - (ii) An irrevocable and unconditional Bank Guarantee as per the Format enclosed in Annexure A of tender document, from any Commercial Bank in India encashable in Cochin;
  - (iii) On-line payment to the Bank Account of Cochin Port Authority indicated in Clause 8 of Notice Inviting Tender.
- 10.2 **The value of Security Deposit shall be equivalent to 10% of the total contract value for the 'SITC of 35 nos. of IP CCTV security cameras at various locations of CoPA'.** Out of 10% of the Security Deposit, 5% is in the form of Account Payee Demand Draft/ Banker's Cheque/ Bank Guarantee from any Commercial Bank in India in favour of "FA&CAO, Cochin Port Authority", encashable at Cochin or online payment in an acceptable form safeguarding the purchaser's interest in all respects and 5% in the form of retention money from the bill.
- 10.3 In case the Security Deposit is furnished as Bank Guarantee, the same should remain valid for a period of 60 days beyond the completion of guarantee period. Failure to submit security deposit within stipulated period will entitle CoPA to terminate the agreement/cancel the LoA.
- 10.4 Cochin Port Authority is not bound to pay interest on the Security Deposit furnished by the successful bidder.
- 10.5 In the event of the Contractor failing to honour any of the commitments entered into under this Contract, Cochin Port Authority shall have unconditional option to encash the Security Deposit. The bank shall be obliged to make payment to Cochin Port Authority upon demand.
- 10.6 In the event of the tenderer, after the issue of the communication of acceptance of offer by the Board, failing /refusing to execute the agreement as hereinafter provided, the tenderer shall be deemed to have abandoned the contract and such an act shall amount to and be construed as the Contractor's calculated and the willful breach of the contract, the cost and consequence of which shall be to the sole account of the tenderer and upon

such an event the Board shall have full right to claim damages therefore either together with or in addition to suspension of the bidder from participating in the Tenders invited by Cochin Port Authority, for a period of two years from the date of such suspension. Also, failure to execute the agreement within stipulated period will entitled CoPA to cancel the LoA.

- 10.7 The security deposit submitted for the work of 'SITC of CCTV cameras & accessories' shall be discharged by the Employer and returned to the Contractor not later than Twenty one (21) days following the date of Completion of the 2-year guarantee period and only after submission of security deposit for the 5-year AMC contract. If the contractor does not submit security deposit for AMC and execute the work, then the security deposit submitted towards 'SITC of CCTV cameras & accessories' shall be forfeited.
- 10.8 Separate order shall be issued for CAMC of the **35 nos. of IP CCTV security cameras** before the expiry of 2-year guarantee period and separate security deposit for 10% of total AMC cost shall be furnished for covering the 5 year AMC period, in the form of Account Payee Demand Draft/ Banker's Cheque/ Bank Guarantee from any Commercial Bank in India in favour of "FA&CAO, Cochin Port Authority", encashable at Cochin or online payment in an acceptable form safeguarding the purchaser's interest in all respects and separate agreement for the AMC shall be executed. The security deposit furnished for the 5-year AMC contract will be released and returned to the contractor not later than Twenty one (21) days following the date of Completion of the entire AMC period.
- 11 Subcontracting:**
  - 11.1 The Supplier shall notify the Employer in writing of all subcontracts awarded under the contract if not already specified in the tender. Such notification, in the original Tender or later shall not relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the contract.
  - 11.2 Subcontracts shall comply with the provisions of Instructions to Tenderers Clause 21, Instruction to Tenderers (Fraud and corrupt practices).
  - 11.3 Notwithstanding any subletting with such approval as required under above and notwithstanding that the Engineer-in-Charge shall have received copies of any sub-contract, the contractor shall be solely responsible for the quality and proper execution of the works, performance of all conditions of contract in all respects as if such subletting had not taken place and as if such work has been done directly by the contractor.
  - 11.4 If any sub-contractor engaged upon the works at the site executes, any work which, in the opinion of the Engineer-in-Charge, is not in accordance with the contract condition, written notice may be given to the contractor requesting him to terminate such sub contract and the contractor upon receipt of such notice shall terminate such sub contract and the said sub contractor shall forthwith leave the works, failing which the department shall have right to remove such sub contractors from site. No action taken by the department under this clause shall relieve the contractor of any of his liabilities under the contract or give rise to any compensation, extension of time or otherwise.

## **12 Specification and Standards:**

- 12.1 Technical specification and drawings:
  - (a) The Goods and Related Services supplied under this contract shall conform to the Technical Specifications and Standards<sup>20</sup> mentioned in Section IV, Scope of Work and

Technical Specifications and when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate.

- (b) The Contractor 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 Employer, by giving a notice of such disclaimer to the Employer.
- (c) 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 Schedule of Requirements. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Employer and shall be treated in accordance with GCC Clause 23 (Change Orders and Contract Amendments).

### **13 Packing:**

- 13.1 Contractor shall provide adequate packing of Equipments to prevent the damage or deterioration during transit to their final destination. The contractor shall be held responsible for all damages or breakages to the goods due to the defective or insufficient packing as well as for corrosion due to insufficient protection. Packing shall withstand hazards normally encountered with the means of transport including loading/unloading operations and shall be done in such a manner to reduce volume as much as possible.
- 13.2 The packing specification incorporated herein are supplementary to the internal and external packing methods and standards as per current general rules of J.R.A. Good Tariff Part-I.
- 13.3 Fragile articles should be packed with special packing materials depending on the type of Materials and the packing shall bear the words "HANDLE WITH CARE GLASS FRAGILE, DON'T ROLL THIS END UP. THIS END DOWN," to be indicated by arrow.
- 13.4 The hazardous materials shall be packed in accordance with the applicable rules, regulations and tariff of all cognizant Government Authorities and other Governing bodies. It shall be the responsibility of the seller of hazardous materials to designate the material as hazardous and to identify each material by its proper commodity name and its hazardous material class code.
- 13.5 All packages requiring handling by crane should have sufficient space at appropriate place to put sling of suitable diameter (strength). Iron/Steel angle should be provided at the place where sling marking are made to avoid damage to package/ equipment while lifting.
- 13.6 Item shipped in bundles must be securely tied with steel wire or strapping. Steel reinforcing rods, bars, pipes, structural members etc. shall be bundled in uniform lengths and the weight shall be within the breaking strength of the securing wire or strapping. In the case of imports, for bundles the shipping marks shall be embossed on metal or similar tag and wired securely on each end.
- 13.7 All delicate surfaces on equipment/materials should be carefully protected with protective paint/compound and wrapped to prevent rusting and damage.
- 13.8 All mechanical and electrical equipment and other heavy articles shall be securely fastened to the case bottom and shall be blocked and braced to avoid any displacement/ shifting during transit.



- 13.9 Attachments and spare parts of equipment and all small pieces shall be packed separately in wooden cases with adequate protection inside the case and wherever possible should be sent along with the main equipment. Each item shall be suitably tagged with identification of main equipment, item denomination and reference number of respective assembly drawing. A copy of the packing list shall accompany the materials in each package.
  - 13.10 All protrusions shall be suitably protected by providing a cover comprising of tightly bolted wooden disc on the flanges. All nozzles, holes and openings and also all delicate surfaces shall be carefully protected against damage and bad weather. All manufactured surfaces shall be painted with rust proof paint.
  - 13.11 In the case of imports, for bulk uniform material when packed in several cases, progressive serial numbers shall be indicated on each case.
  - 13.12 Wherever required, equipment/materials instruments shall be enveloped in polythene bags containing silica gel or similar dehydrating compound.
  - 13.13 Detailed packing list in waterproof envelope shall be inserted in the package together with equipment/materials. One copy of the detailed packing list shall be fastened outside of the package in waterproof envelope and covered by metal cover.
  - 13.14 Packaged equipment or materials showing damage defects or shortages resulting from improper packaging materials or packing procedures or having concealed damages or shortages, at the time of unpacking shall be to the supplier's account.
  - 13.15 All packages which require special handling and transport should have their Centre of Gravity and the points at which they may be slung or gripped clearly indicated and marked "ATTENTION- SPECIAL LOAD HANDLE WITH CARE" in English Language.
  - 13.16 Along with the packed material, supplier should attach material list, manuals/ instructions and also the Inspection certificate/release note, wherever applicable.
- 14 Marking:**  
The following details to be written on the side face of packing:
- a) LoA Number.
  - b) Supplier's Name.
  - c) Batch No. with Manufacturing Date.
- 15 Insurance:**
- 15.1 The Goods supplied under the Contract shall be insured by the Supplier at his cost, for the full value as specified in the Employer's supply order against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery from the **works until they are delivered at Employer's premises and accepted by the Employer. Such insurance policy shall be jointly in the name of Contractor and Employer** against destruction or damage by accident, fire, flood and tempests. The Contractor shall from time to time, when so, required by the Employer produce the Policy and the receipt for the premium. All money received under any such policies shall be applied in or towards the reconstruction or preparation of the materials, plant and things destroyed or damaged, but this provision shall not affect the contractor's liabilities under contract.
  - 15.2 The supplier shall be responsible for insurance of all his employees/representatives who are deputed for operational demonstration of equipment at Cochin, against any accidents and shall indemnify the Employer.

**16 Transportation:**

The Supplier is responsible for transportation of Goods/Equipments from Supplier's premises to the Employer's site at the cost and risk of the Supplier.

**17 Consignee of Equipment:**

The consignee of all materials sent to Cochin Port Authority is Deputy Materials Manager, Cochin Port Authority, Cochin, 682009. The way bills, invoices etc. shall be addressed to him under intimation to Chief Mechanical Engineer, Cochin Port Authority.

**18 Inspection and Testing:**

- 18.1 The Inspection and Tests shall be conducted at Contractor's premises and the cost of all such tests shall be borne by the Contractor apart from making arrangements for conduct of such tests. Employer shall not be liable to make any additional payments for conduct tests or for change of location of Test. All cost for fulfillment of obligation on the part of Contractor shall be deemed to have been included in the total contract price offered by him on which the Contract has been awarded to him. However, in case of Additional Tests if any are requested by the Employer shall be at the cost and time of Employer in which case also the Contractor shall make all arrangements required for conduct of such tests in the manner prescribed to do so by the Employer or TPI.
- 18.2 The Employer reserves the right to witness the Pre-delivery Inspection at the Contractor's premises or any place the work demands, along with TPI. The inspections and tests are to be conducted to the entire satisfaction of TPI/Employer. The details of inspections and tests to be carried out are specified under Section IV, Scope of work and Technical Specifications.

**19 Liquidated Damages**

- 19.1 In case of delay in completion of the contract, liquidated damages (L.D) will be levied at the rate of half per cent (½%) of the contract price per week of delay, subject to a maximum of 10 per cent of the contract price. The amount of Liquidated damages can be adjusted or set-off against any sum payable to the Contractor.
- 19.2 The Employer, if satisfied, that the works can be completed by the Contractor within a reasonable time after the specified time for completion, may allow further extension of time at its discretion with or without the levy of L.D. In the event of extension granted being with L.D, the Employer will be entitled without prejudice to any other right or remedy available in that behalf, to recover from the Contractor as agreed damages equivalent to half per cent (½%) of the contract value of the works for each week or part of the week subject to the ceiling defined in sub-Clause 42 A.
- 19.3 The Employer, if not satisfied that the works can be completed by the Contractor, and in the event of failure on the part of the Contractor to complete work within further extension of time allowed as aforesaid, shall be entitled, without prejudice to any other right, or remedy available in that behalf, to rescind the contract.
- 19.4 The Employer, if not satisfied with the progress of the contract and in the event of failure of the Contractor to recoup the delays in the mutually agreed time frame, shall be entitled to terminate the contract.
- 19.5 In the event of such termination of the contract as described in clauses 42A(ii) or 42A(iii) or both the Employer shall be entitled to recover L.D. upto ten per cent (10%) of the contract value and forfeit the security deposit made by the Contractor

besides getting the work completed by other means at the risk and cost of the Contractor.

#### **19.6 Reduction of Liquidated Damages**

If, before the Time for Completion of the whole of the Works or, if applicable, any Section, Taking Over Certificate has been issued for any part of the Works or of a Section, the liquidated damages for delay in completion of the remainder of the Works or of that section shall, for any period of delay after the date stated in such Taking Over Certificate, and in the absence of alternative provisions in the Contract, be reduced in the proportion which the value of the part so certified bears to the value of the whole of the Works or Section, as applicable. The provisions of this Sub-Clause shall only apply to the rate of liquidated damages and shall not affect the limit thereof.

#### **20. Warranty:**

- 20.1 The Contractor warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- 20.2 The Contractor further warrants that the Goods shall be free from defects arising from any act or omission of the Contractor or arising from design, materials, and workmanship, under normal use in the conditions prevailing in INDIA.
- 20.3 The Employer shall give notice to the Contractor stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Employer shall afford all reasonable opportunity for the Contractor to inspect such defects.
- 20.4 Upon receipts of such notice, the Contractor shall, within the period of seven days, repair or replace the defective Goods or parts thereof, at no cost to the Employer.
- 20.5 If having been notified, the Contractor fails to remedy the defect within seven days, the Employer may proceed to take within a reasonable period such remedial action as may be necessary, at the Contractor's risk and expense and without prejudice to any other rights which the Employer may have against the Contractor under the Contract.
- 20.6 **All the CCTV cameras, Racks, Network switches, POE switches, SFP switch, UPS, P2P link, Rack Mount Recorder, HDD, High End work station, professional display & PTZ joy stick controller shall be covered under OEM warranty for 5 years. The guarantee period for the entire work shall be effective for a period of twenty four (24) months and it will be in force from the date of completion of the work under the contract and acceptance by the Employer** and the contractor shall be responsible for any defects that may develop under proper use arising from faulty materials, designs, workmanship in the work but not otherwise and shall at his own cost remedy such defects when called upon to do so by the Officer In-charge who shall state in writing in what respect any portion is faulty.
- 20.7 If it becomes necessary for the contractor to replace or renew or repair any defective portions of the Supply of the items under this clause, the provisions of this clause shall apply to the portions of the Supply so replaced or renewed or repaired until the expiry of six months from the date of such replacement/ renewal/repair or until the above mentioned period of 24 months, whichever may be later. If any defects are not remedied within a reasonable time, the Employer may proceed to do the work at the Contractor's risk and expenses but without prejudice to any other rights which the Employer may have against the contractor in respect of such defects.
- 20.8 If the replacement or renewals are of such a character as may affect the efficiency of the items Supplied, the Employer and/or the Engineer shall have the right to give to the

contractor within one month of such replacement or renewal notice in writing the ‘Test on Completion’ be made in which case test shall be carried out as provided in accordance with the relevant clauses under Scope of Supply and Technical Specification thereof. Should such guarantee not be sustained the cost of the test shall be borne by the Contractor.

- 20.9 All inspection, adjustments, replacement or renewal carried out by the contractor during the period referred to in this clause shall be subject to the conditions of this contract which shall be binding on the contractor in all respects during the guarantee and the additional warrantee period.

## **21 Indemnity:**

- 21.1 The contractor shall, subject to the Employer’s compliance with the GCC Clause.22.2, indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney’s fees and expenses, which the Employer may suffer as a result of any infringement or alleged infringement of any patent, utility, model, registered design, trademark, copyright , or other intellectual property right registered or otherwise existing at the date of the Contract by reason of (a) The installation of the Goods by the Contractor or the use of the Goods in the Country where the site is located; and (b)The sale in any country of the products produced by the Goods. Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any Part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the Contractor, pursuant to the Contract.
- 21.2 If any proceedings are brought or claims is made against the Employer arising Out of the matters referred to in GCC Clause 22.1, the Employer shall promptly give the Contractor a notice thereof, and the Contractor may at its own expense and in the Employer’s name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.
- 21.3 If the Contractor, fails to notify the Employer within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Employer shall be free to conduct the same on its own behalf.
- 21.4 The Employer shall, at the Contractor’s request, afford all available assistance to the Contractor in conducting such proceedings or claim, and shall be reimbursed by the Contractor for all reasonable expenses incurred in so doing.

## **22 Force Majeure:**

- 22.1 In the event of either party being rendered unable by Force Majeure to perform any obligation required to be performed under this contract, the relative obligation of the party affected by such Force Majeure shall upon notification to the other party be suspended for the period during which such cause lasts. No payments may be made for force majeure period.
- 22.2 For purposes of this Clause, “Force Majeure” means an event or situation beyond the control of the Party claiming to be affected thereby, ( the “Affected Party”), which is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the affected party. Such events may include, but not be limited to, acts of the

Employer in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

- 22.3 Upon the occurrence of such cause and upon its termination the Affected Party, shall notify the other party in writing immediately not later than 48 hours of the alleged beginning and ending thereof giving full particulars and satisfactory evidence in support of its claim. Failure to do so may liable the party being denied of the shelter of the clause.
- 22.4 Employer shall examine the merit of the case and accordingly Time for performance of the relative obligation suspended by the Force Majeure shall then stand extended by the period for which such cause lasts. The decision of the Employer shall be final and binding in this regard.
- 22.5 However, should such a delay even if due to reason of Force Majeure be protracted for more than three 3 (months), the Employer may cancel the contract, subject to the consent of the Contractor, at no charge to the Employer in Contractor's favour.
- 22.6 The Contractor shall not be liable for forfeiture of its Performance Security, Liquidated damages, 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.
- 22.7 If the Force majeure situation arises during guarantee period, unless the contractor is terminated by the employer, the guarantee period will be extended for the number of days affected by force majeure.

### **23 Change Orders and Contract Amendments:**

- 23.1 The Employer may at any time order the Contractor through notice to make changes within the general scope of the Contract in any one or more of the following:
  - (a) drawing, designs, or specification, where Goods to be furnished under the Employer;
  - (b) the method of shipment or packing;
  - (c) the place of delivery; and
  - (d) the Related Service to be provided by the Contractor
- 23.2 If any such change causes increase or decrease in the cost of, or the time required for Contractor's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery/Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Contractor for adjustment under this Clause must be asserted within twenty-eight (28) days from the date of the Contractor's receipt of the Employer's change order.
- 23.3 Prices to be charged by the Contractor for any Related Services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Contractor for similar services.
- 23.4 Subject to the above no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties. No extras shall be allowed for unless ordered as such in writing by the EMPLOYER and such extras will be paid for at rates and prices to be agreed upon mutually and upon the certification by the Employer or his Representative. Any extra expenses in addition to the amount specified in the Price Schedule which may be Incurred by The Employer in the performance of the work required owing to the neglect or omission on the part of the contractor/contractors his/their workmen in any of the cases mentioned in this contract shall be deducted from

any sums due of which may therefore, become due to the contractor/contractors by the Employer or he/they may be called upon to pay the amount of such extra expenses to such person or persons as the Employer may appoint to receive the same and in the event of the contractor/contractors failing to make such payment, the said amount shall be recoverable from him/them in such manner as the Employer may determine.

- 23.5 The quantities indicted in the Price Schedule are estimated only and are liable to be altered or omitted.

## **24 Extension of Time:**

- 24.1 If at any time during performance of the contract, the contractor or its Sub-contractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services, pursuant to GCC Clause 5, the contractor shall promptly notify the Employer in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the contractor's notice, the Employer shall evaluate the situation and may at its discretion extend the contractor's time for performance, in which case the extension shall be ratified by the parties by amendment of the contract.
- 24.2 Except in case of Force Majeure, as provided under GCC Clause 22, a delay by the Contractor in the performance of its Delivery and Completion obligations shall render the Contractor liable to the imposition of liquidated damages pursuant to GCC Clause 19 (Liquidated Damages), unless an extension of time is agreed upon, pursuant to GCC Clause 24.1.

## **25 Termination:**

### **25.1 Termination for Default:**

- 25.1.1 The Employer, without prejudice to any other remedy for the breach of Contract, by written notice of default sent to the Contractor, may terminate the contract in the whole or in part:
- (i) If the contractor fails to deliver any or all of the Goods within the period specified in the Contract, or within the extensions granted by the Employer pursuant to GCC Clause 24.
  - (ii) If the contractor fails to perform any other obligation under the contract or
  - (iii) If the contractor, in the judgment of the Employer has engaged in fraud and corruption as defined in Clause 21 under Instruction to Tenderers, in competing for or in executing the contract.
- 25.1.2 In the event the Employer terminates the contract in whole or in part, pursuant to GCC Clause 25.1.1, the Employer reserves its right to take any one or more of the following actions:-
- (i) The Performance Security is to be forfeited;
  - (ii) The Employer may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Contractor shall be liable to the Employer for any additional costs for such similar Goods or Related Services. However, the Contractor shall continue performance of the Contract to the extent not terminated.

### **25.2 Termination for Insolvency:**

The Employer may at any time terminate the Contract by giving notice to the Contractor if the Contractor becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Contractor, provided that such

termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Employer.

**25.3 Termination for Convenience:**

- (a) The Employer, by notice sent to the Contractor, 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 Employer's convenience, the extent to which performance of the Contractor under the Contract is terminated, and the date upon which such termination becomes effective.
- (b) If the contract is terminated for convenience of the Employer as stated in GCC Clause 25.3 (a), the Goods that are complete and ready for shipment within twenty-eight (28) days after the Contractor's receipt of notice of termination shall be accepted by the Employer at the Contract terms and prices. For the remaining Goods, the Employer may elect:-
  - (i) To have any portion completed and delivered at the Contract terms and prices; and/or
  - (ii) To cancel the remainder and pay to the Contractor an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Contractor.

**26 Execution of Agreement:**

- 26.1 The successful tenderer will be required to execute an Agreement at his expense within 21 (twenty one) days from the date of Letter of Acceptance (LoA), on proper value Kerala State Stamp Paper in the prescribed form as per Annexure-B. Agreement can be entered only after furnishing of Security Deposit by the contractor. Upon the receipt of letter intimating award of the Contract (LoA), the Contractor shall prepare two sets (one original and one duplicate) of the Agreement as per the format attached at Annexure-B in the Tender Document, after taking into account any changes thereafter agreed by both the parties, at the earliest without any delay and complete all the formalities and submit the same to the Cochin Port Authority duly executed on Kerala stamp paper of appropriate value within 21 days from the date of receipt of LoA. Original of the agreement will be retained by the Cochin Port Authority and the duplicate will be returned to the Contractor after the signature of the Chief Mechanical Engineer. Additional four copies of the signed Agreement shall be submitted for the use of Engineer-in charge and the bill payment section. Failure to execute the agreement within stipulated period will entitle CoPA to cancel the LoA.

**27 Sum payable by way of compensation to be considered as reasonable compensation without reference to actual loss:**

- 27.1 All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of the Board without reference to the actual loss or damage sustained and whether or not any damage shall have been sustained.

**28 Changes in constitution of firm:**

- 28.1 In the case of a tender by partners, any change in the constitutions of the firm shall be forthwith notified by the Contractor to the Chief Mechanical Engineer for his information.

**29 Employees of the Board not individually liable :**

- 29.1 No official or employee of the Board shall in any way be personally bound or liable for acts or obligation under the contract or answerable for any default or omission in the observance or performance of any of the acts, matters or things which are herein contained.

**30 No Claim Certificate:**

- 30.1 No dispute or difference on any matter whatsoever, pertaining to the contract can be raised by the contractor after submission of 'No Claim Certificate' in the form as per the format enclosed as Annexure-D.

**31 Reporting of Accidents**

- 31.1 The Contractor shall report to the Engineer details of any accident as soon as possible after its occurrence. In the case of any fatality or serious accident, the Contractor shall, in addition, notify the local police authorities immediately by the available means.

**32 Observance by Sub-Contractors**

- 32.1. The Contractor shall be responsible for observance by his sub-Contractors of the foregoing provisions.

**33. Port Entry Permission**

- 33.1 The Contractor shall submit prior application for Port entry passes to the concerned Port authority for his labourers and the staffs engaged in the works. The Contractor shall retain the original passes obtained by them in respect of their labour and staff engaged in the Works and produce the same to the Engineer as and when called for. It should not be either destroyed or allowed to be taken by the labour/staff after its use.

**34. Defect Liability/guarantee**

- 34.1 The Engineer or his nominee shall give notice to the Contractor of any Defects before the end of the Defects Liability/guarantee Period, which begins at Completion and is defined in the Contract Data. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
- 34.2 Every time notice of a Defect is given, the Contractor shall correct the notified defect within the length of time specified by the Engineer or his nominee's notice. To the intent that the works shall, at or as soon as practicable after the expiration of the Defects Liability Period, be delivered to the Employer in the condition required by the Contract, fair wear and tear excepted, to the satisfaction of the Engineer, the Contractor shall :
- (a) Complete the work, if any, outstanding on the date stated in the Taking-Over Certificate within the date to be intimated by the Engineer and
  - (b) Execute all such work of amendment, reconstruction, and remedying defects, shrinkages or other faults as the Engineer may, during the Defects Liability Period or within 14 days after its expiration, as a result of an inspection made by or on behalf of the Engineer prior to its expiration, instruct the Contractor to execute.

**34.3 Cost of Remedying Defects**

All work referred to in Sub-Clause 34.2 shall be executed by the Contractor at his own cost if the necessity thereof is, in the opinion of the Engineer, due to:

- (a) The use of materials, Plant or workmanship not in accordance with the Contract, or



- (b) Where the Contractor is responsible for the design of part of the Permanent Works, any fault in such design, or the neglect or failure on the part of the Contractor to comply with any obligation, expressed or implied, on the Contractor's part under the Contract.

**34.4 Uncorrected Defects.**

If the Contractor has not corrected a Defect within the time specified in the Engineer's or his nominee's notice the Engineer or his nominee will assess the cost of having the Defect corrected, and the Contractor will pay this amount/ deducted from the Security Deposit.

**35. Personnel**

- 35.1 The Contractor shall employ the key personnel named in the Schedule of Key Personnel as referred to in the Contract Data to carry out the functions stated in the Schedule or other personnel approved by the Engineer or his nominee. The Engineer or his nominee will approve any proposed replacement of key personnel only if their qualifications, abilities, and relevant experience are substantially equal to or better than those of the personnel listed in the schedule.
- 35.2 If the Engineer or his nominee asks the Contractor to remove a person who is a member of the Contractor's staff ~~of~~ from his work force stating the reasons, the Contractor shall ensure that the person leaves the site within seven days and has no further connections with the work in the contract.

**36 The Works to be Completed by the Intended Completion Date**

The Contractor may commence execution of the works on the Start Date and shall carry out the works in accordance with the program submitted by the Contractor as updated with the approval of the Engineer or his nominee, and complete them by the Intended Completion Date.

**37 Possession of the Site**

The Employer shall give possession of all parts of the Site to the Contractor, free from encumbrances. If possession of a part is not given by the date stated in the Contract Data the Employer is deemed to have delayed the start of the relevant activities and this will be a Compensation Event.

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## **SECTION IV** **TECHNICAL SPECIFICATIONS**

### **SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 35 NOS. IP CCTV CAMERAS AT VARIOUS LOCATIONS OF CoPA INCLUDING 2 YEARS GUARANTEE AND 5 YEARS COMPREHENSIVE AMC THEREAFTER.**

#### **I. SCOPE OF WORK**

##### **A. General:**

1. The Scope of Work is for providing IP CCTV cameras at various locations of Cochin Port including Container Freight Station (CFS) and making available the CCTV visuals in the CISF Control Room on the 7<sup>th</sup> floor of the New Administrative Building of Cochin Port. The cameras shall be erected on GI poles or on the existing buildings. Optical Fiber / Cat 6 cable shall be laid through HDPE/PVC pipe/ ground / clamping along walls from the nearest OFC available point of Cochin Port and connections provided by installing Outdoor/Indoor wall mounting rack, Poly carbonate junction box, SFU modules, POE switches, MCB's etc. Lightning arrestor, surge protector, earthing and UPS shall be provided for each camera. In addition, OFC cable is proposed to be laid from the nearest OFC location to the existing and proposed CCTV cameras in the 2 Toll gates, existing CCTV cameras in A2-A3 areas near CoPA avenue walkway and also from the BTP Berth to the existing camera near the Private Jetty. Wireless communication is also intended from the cameras at two locations, viz. Cochin Oil Terminal and North Tanker Berth(existing) to CISF control room on the 7<sup>th</sup> floor of New Administrative Building.
2. At present, Cochin Port has a comprehensive network of NVR based IP cameras (47 Nos.) spread all over Willingdon Island (8 sq. km). List and type of existing cameras with locations provided is given below for reference. These 47 Nos. cameras (10 Nos. in CFS) are of HANWHA make and installed after 2016 and are under AMC/ Guarantee. These cameras are NVR based with HDD's capable of recording upto 90 days and visuals available in the CISF control room on the 7th floor of the New Ad. Bldg. The data is being transmitted through CoPA's OFC cables where available and through BSNL Leased lines.
3. In the present proposal we intend to install additional 35 Nos. cameras at various locations of CoPA including CFS. Our existing CCTV surveillance is based on NVR. We propose to switch over from NVR to VMS which provides more control over the video data and allows for more efficient management of video surveillance networks. **The VMS offered shall support upto 500 cameras with adequate capacity video management server, camera recording server and hard disks for recording live videos upto 90 days. In the estimated rates, license for 200 cameras for 5 years is included. No failover for Servers considered but provision for providing failover is**

**there in the Server. The Tenderer shall consider all the above and quote accordingly.**

4. All Software Licenses should be for life time in the name of CHIEF MECHANICAL ENGINEER, COPA and during warranty period upgrade at free of cost as & when new versions are released.
5. The Tenderer shall provide VMS system and Server compatible to the new CCTV cameras that are proposed to be provided in this tender and the old existing CCTV cameras already available at CoPA premises.
6. All the CCTV cameras, Racks, Network switches, POE switches, SFP switch, UPS, P2P link, Rack Mount Recorder, HDD, High End work station, professional display & PTZ joy stick controller shall be covered under OEM warranty for 5 years (Item Nos.1,2,3,4,6,7,8,9,19,22,24,28,29, 30,31,32,33,34,35,36 of BOQ). **This may be considered while quoting AMC rate by the bidder.**
7. The tenderer may visit the location and assess the present network & cameras and new requirements before submission of the offer for total CCTV solutions. The ANPR cameras are proposed to be installed at the two entry Toll Gates(IG Road Toll Gate and Bristow Road Toll Gate) of CoPA. The ANPR cameras shall identify the registration numbers of vehicles entering / exiting through the toll gates(24 hours). There are 2 lanes for INCOMING and 2 lanes for OUTGOING in each Toll Gate. The CCTV footages shall be viewable in the CISF control room on the 7th floor of the New Administrative Building of CoPA. The Bidder shall ensure that the CCTV visuals and number plates of vehicles are captured in the entire 24 hours. The Capacity of the cameras, poles etc. shall be designed accordingly. The ANPR Cameras will be accepted only after all images are seen to the satisfaction of the Engineer-in-charge. Presently we have installed ordinary IP cameras and remote surveillance is being done with BSNL LL facility. We intend to lay OFC cable from the OFC point near Mattancherry Wharf to IG Road Toll Gate and Bristow Road Toll Gate and surrender the existing P2P connection availed from BSNL. Also OFC is proposed to be laid from IG Road Toll Gate to existing CCTV cameras in A2-A3 area near Avenue walk way. Wireless communication is also intended from the cameras at two locations, viz. Cochin Oil Terminal and North Tanker Berth to CISF control room on the 7<sup>th</sup> floor of New Administrative Building.
8. In the Container Freight station (CFS), we propose to install 6 Nos. new IP cameras. Presently there are 10 Nos. (Infinova make) box type cameras, 8 Nos. Zoom type box camera (Hanwha make) and 2 Nos. Fish Eye Cameras (Hanwha make) inside CFS. The existing Hanwha/ Infinova cameras are to be re-positioned and fixed along with the new cameras inside CFS for effective surveillance of CFS. The successful bidder has to do the site study and submit the detailed layout positioning cameras and its accessories in any latest format. All cameras should be integrated in the as built layouts and the same should

be configured to display for easy location identification. All cameras should be positioned according to the Cochin Port requirement and the vendor should ensure the coverage and quality footages of each area as a part of commissioning. The new cameras, VMS etc. shall be compatible with the existing systems and images shall be viewable locally at the ATM's room inside CFS and at the 7<sup>th</sup> floor of the New Administrative Building.

- 9. Back up should be in full resolution at 20fps at minimum 3000 kbps available for 90 days at all locations, after installation of new CCTV cameras. The BoQ specifies 18 nos. of 18TB Hard disk. If the solution provided by the bidder does not satisfy the requirement, additional hardware and storage should be considered. The system should provide 99.99 % uptime and no data should be lost. Suitable provision for disaster recovery mechanism should be available.**
- 10.** The specification of workstations/servers provided in the document is minimum. The bidder can consider higher specification for the smooth functioning of the system, if required.
- 11.** The VMS shall be able to support all types of IP cameras. The proposed solution should be able to generate various standard/ customized reports for event analysis / reporting purposes.
- 12.** The proposed system should have high level of network security. Hacking of the video footages through VMS should not happen at any cost. Suitable antivirus – Server Client Architecture for servers, storage, workstations etc. needs to be installed with end point protection. Periodic security audit of the video management system to protect the system against hacking and all possible best practices must be adopted.
- 13.** The proposed antivirus software should be compatible with the VMS system offered. The antivirus system should be installed on the server. Validity of the Server antivirus (original) should be licensed with free updation during the warranty period.
- 14. The Bidder may visit the site and acquaint himself with the location and site conditions before quoting.**

## **II. PROPOSED LOCATIONS & TYPE OF NEW CCTV CAMERAS**

<b>No.</b>	<b>Location</b>	<b>Type of Camera</b>	<b>Qty. of camera</b>	
1	Ekm. Wharf Q 5 shed south end - For surveillance of wharf area of Q5	O/D box motorised VF IR camera	3	Nos.
2	Ekm. Wharf Q 6 shed MIDDLE - For surveillance of wharf area of Q6	O/D box motorised VF IR camera	2	Nos.

3	Ekm. Wharf Q 8 MIDDLE- For surveillance of wharf area of Q8	O/D box motorised VF IR camera	2	Nos.
4	Ekm. Wharf Q 9 - MIDDLE - For surveillance of wharf area of Q9	O/D box motorised VF IR camera	2	Nos.
5	Ekm. Wharf Kiosk area of Sagarika Cruise Terminal- For surveillance of cruise passenger movements	O/D box motorised VF IR camera	1	No.
6	Ekm. Wharf Parking area of Sagarika Cruise Terminal- For surveillance of cruise passenger movements	O/D box motorised VF IR camera	1	No.
7	MATT. CHANNEL - BTP Berth (Near NCB) - For surveillance of BTP wharf area & also NCB area/Marine Jetty area	O/D box motorised VF IR camera	5	Nos.
8	MAT. WHARF - RO RO JETTY & Q1 berth- For surveillance of wharf area of RO-RO & Q1 perimeter boundary	O/D box motorised VF IR camera	2	Nos.
9	MAT. WHARF South Gate - For surveillance of unmanned isolated gate & perimeter boundary	O/D box motorised VF IR camera	2	Nos.
10	MAT.WHARF Q4 berth- For surveillance of wharf area & Q4 perimeter boundary	O/D box motorised VF IR camera	2	Nos.
11	Bristow Road Toll Gate	ANPR camera	2	Nos.
12	Indira Gandhi Road Toll Gate	ANPR camera	2	Nos.
13	NTB & STB near main gate area- For surveillance of sensitive area due to public movements near gate.	O/D box motorised VF IR camera	2	Nos.
14	COT - For watching movements around COT	PTZ Camera	1	No.
15.1	CFS inside - For surveillance of Cargo movement	Zoom type box camera	5	Nos.
15.2	CFS inside- For surveillance of Cargo movement	Fish eye camera	1	No.
	<b>TOTAL NO. OF CAMERAS</b>		<b>35</b>	<b>Nos.</b>

**Back up proposed after installation of new cameras - 90 days at all locations including CFS**

DETAILS OF EXISTING CCTV CAMERAS					
I	2013	INFINOVA CAMERAS			Cameras to be checked, repositioned & connected to new Server. Present server is in 5th floor EDP Data centre
	CFS	IP Box type fixed camera	10	Nos.	
	Old Ad.Bldg. Access Control	IP Box type fixed camera	1	No.	
	New Ad.Bldg. Access Control	IP Box type fixed camera	1	No.	
	Marine Bldg. Access Control	IP Box type fixed camera	1	No.	
	Hospital Access Control	IP Box type fixed camera	1	No.	
	Fire station Access Control	IP Box type fixed camera	1	No.	
			<b>15</b>	<b>Nos.</b>	

<b>II</b>	<b>2016</b>	<b>HANWHA TECHWIN</b>			
1	New Ad. Bldg.	PTZ Zoom camera	1	No.	
2	Q6 berth	PTZ Zoom camera	1	No.	
3	Q2 berth	PTZ Zoom camera	1	No.	
4	E/Wharf gate	IP Box type fixed camera	2	Nos.	
5	M/Wharf gate	IP Box type fixed camera	2	Nos.	
6	CFS	IP Box type fixed camera	2	Nos.	
7	Toll gates	IP Box type fixed camera	4	Nos.	
8	OTB	IP Box type fixed camera	3	Nos.	
<b>III</b>	<b>2017</b>	<b>HANWHA TECHWIN</b>			
9	Embarkation Jetty	IP Box type fixed camera	2	Nos.	
10	Mattancherry Jetty	IP Box type fixed camera	1	No.	
<b>IV</b>	<b>2017</b>	<b>HANWHA TECHWIN</b>			
11	South End Rec.Area- A2	IP Box type fixed camera	2	Nos.	
	<b>2019</b>	<b>HANWHA TECHWIN</b>			
12	New Ad. Bldg. 6 floors	Dome type fixed camera	6	Nos.	
13	Car parking-New Ad.Bldg.	Bullet type fixed camera	3	Nos.	
14	In front of Chairperson residence	Zoom camera box type	2	Nos.	
15	Inside CFS shed	Fish eye Dome camera	2	Nos.	
16	Inside CFS shed	Zoom camera box type	6	Nos.	
17	CISF Armoury of CoPA	Dome type fixed camera	1	No.	
18	CISF Armoury of CoPA	Zoom camera box type	2	Nos.	
19	Near Customs Comm. Bunglaw	Zoom camera box type	1	No.	
<b>V</b>	<b>Jan-22</b>	<b>HANWHA TECHWIN</b>			
20	South End Rec. Area- A3	IP Box type fixed camera	3	Nos.	
	<b>TOTAL NO. OF CCTV CAMERAS AT PRESENT AT VARIOUS LOCATIONS</b>				<b>47 Nos.</b>
	<b>In CFS - 10 Nos. Hanwha Techwin and 10 Nos. old Infinova cameras.</b>				
	<b>Back up of existing cameras is available for 90 days at CISF CONTROL ROOM. At CFS only 30 days</b>				

## 15. DOCUMENTATION:

### I. Documents to be provided after award of PO, before supply of CCTV system

- Technical catalogues /Datasheets of components to be supplied.
- Factory test reports with serial No.
- Execution Schedule
- BOM
- Installation layout of CCTV cameras, poles, racks etc.

### II. Documents to be provided after commissioning of CCTV System.

- O&M manual – 3 sets
- Final BOM with make and details of each components – 3 sets
- Complete project deployment & Handholding Document – 3 sets

### III. TECHNICAL SPECIFICATIONS

#### **GENERAL SPECIFICATIONS FOR CCTV CAMERAS**

No.	Features	Minimum Specifications	Compliance Y/N
1	LOCATION	HIGHLY CORROSIVE MARINE ATMOSPHERE	
2	Power Supply	HPoE:IEEE802.3bt, Class6, Type3 or AC power adaptor)	
3	Operating Frequency	50 Hz	
4	Operating Conditions	Temp: upto 55°C , Humidity 10–100% RH or better	
5	Wide Dynamic Range	True 120dB or better	
6	Connectors	RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE	
7	Day & Night Operation	Automatically removable infrared-cut filter	
8	Backlight compensation	Adjustable	
9	Video Compression	H.265/H.264: Main/Baseline/High, MJPEG or better	
10	Video streams	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG	
11	Audio Streaming	Input and Output (Two way)	
12	Supported protocol	IPv4, IPv6 , HTTP, HTTPS,SSL/TLS, FTP, SMTP, Bonjour, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS/DDNS, RTSP, RTP, SRTP, TCP, UDP, IGMP, ICMP, RTCP, DHCP, ARP, LLDP, UPnP, NTP, SSH, QoS etc.	
13	Application Programming Interface	ONVIF Profile S,G,T,M API support required for integration with third party software	
14	Edge Storage	Support for Micro SD/SDHC/SDXC 512 GB or better	
15	Memory	Minimum 2 GB RAM, 512 MB Flash	
16	Certifications	CE , FCC, UL, BIS	
17	Compliance	BIS, NDAA compliant.	
18	Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication (EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2) Device Certificate Secure by default certificate HTPM	

		Secure OS/Boot/Storage Verify firmware forgery Cyber Security assurance program UL CAP(UL 2900-1)	
19	Essential features	Motion Detection, Loitering, Tampering, Electronic Image Stabilization, Built In Heater, FAN & Temperature Control, Defog, Auto tracking	
20	Alarm Events	File Upload via FTP and E-mail, Notification via E-mail, SD/SDHC/SDXC or NAS recording at event triggers, Alarm output PTZ Preset	
21	Analytics	Defocus detection, Directional detection, Fog detection, Face detection, Motion detection, Digital Auto tracking, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Sound classification, Shock detection	
22	Cyber security	OEM shall have Global cyber security certifications - ETSI EN 303 645	
23	Firmware Upgrade	The firmware upgrade shall be done through web interface. The firmware shall be available free of cost and shall provide long term support track for cyber security updates	
24	Enclosure	IP67/66, NEMA 4X and IK10 rated casing	
25	Standard	Any component/hardware/parts/assembly/firmware used in offered solution must not comply to protocols like GB 28181, GB/T-28181-2011, GBT-28181/2011 standards	
26	MAC address	Equipment should provide MAC ids of the quoted products; the MAC address of the proposed equipment must be registered in the name of the OEM only. The Intellectual Property Rights (IPR) of equipment (CCTV camera) Must Not Reside in any Land and Border Country	
27	Service Centre	Oem/Bidder should have own/authorised service centre in South India for past 5 years	
28	OEM Warranty	Minimum of 5 Years	

<b>1. 5 MP OUTDOOR BOX TYPE MOTORISED VF IR CAMERA</b>			
No.	Features	Minimum Specifications	Compliance Y/N
1	Image sensor	1/ 2.8" progressive scan CMOS or better	
2	Lens	4 mm-9 mm(+/- 1 mm) or better with Motorized Varifocal Lens. Type -P-Iris or better	



3	Minimum Illumination	Colour: 0.04 lux(F1.3, 1/30 sec, 30 IRE) B/W: 0.004 lux(F1.3, 1/30 sec, 30 IRE), 0 lux(IR LED on) or better	
4	Resolution	5 MP (2560x1920 to 320x240) or better	
5	Max. Frame rate	25 FPS or better @ all resolutions	
6	IR illumination	40 Metres or better	
7	Electronic Shutter Speed	Automatic, Manual (2 to 1/12000 sec) or better	
8	Pan/Tilt/Zoom	Digital PTZ, digital zoom( $\pm 175^\circ$ pan, $\pm 90^\circ$ tilt, $\pm 175^\circ$ azimuth) or better	
9	Image settings	Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, white balance, day/night threshold, tone mapping, exposure mode, exposure zones, motion-adaptive exposure, defogging, barrel distortion correction, compression, orientation: auto, $0^\circ$ , $90^\circ$ , $180^\circ$ , $270^\circ$ including Corridor Format, mirroring of images, dynamic text and image overlay, polygon privacy masks Scene profiles: forensic, vivid, traffic overview	

## **2. 2 MP 30 X OUTDOOR TYPE PTZ CAMERA**

No.	Features	Technical Specification	Compliance Y/N
1	Image Sensor	1 / 2.8 inch progressive scan CMOS or better	
2	Lens	Focal length : 4.5~135 mm or better Autofocus, DC Auto Iris or better	
3	Minimum Illumination	Color: 0.035 Lux (F1.6) B/W: .0195 Lux (IR LED On) or better	
4	Pan/Tilt/Zoom	Pan: $360^\circ$ endless, Tilt: $-90^\circ$ to $+90^\circ$ , Zoom: 31x optical zoom, 12x digital zoom	
5	Shutter Speed	2 s to 1/12000 s or better	
6	Image Resolution	1920x1080p (HDTV 1080p) to 320x240	
7	IR illumination	400 Mtr or better	
8	Frame rate	Upto 50 FPS in all resolutions	
9	Image settings	Compression, color, brightness, sharpness, white balance, exposure control, exposure zones, image freeze on PTZ, scene profiles, rotation, electronic image stabilization (EIS)a, defogging, contrast, local contrast, autofocus, Forensic WDR: Up to 120 dB depending on scene, 32 individual polygon	

		privacy masks including mosaic and chameleon privacy masks	
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### **3. OUTDOOR TYPE 2 MP ANPR / ZOOM TYPE BOX CAMERA**

<b>No.</b>	<b>Features</b>	<b>Minimum Specifications</b>	<b>Compliance Y/N</b>
1	Image sensor	1/ 2.8" progressive scan RGB CMOS or better	
2	Lens	5~50 mm Varifocal Lens With minimum of 10xOptical zoom or better as per requirement - Auto-Iris or better	5.2~62.4mm(12x) zoom(digital 32x, total 384x zoom)
3	Minimum Illumination	Colour: 0.16 lux at 50 IRE F1.4 B/W: 0.03 lux at 50 IRE F1.4, 0 lux with IR illumination on	
4	Resolution	2 MP -1920x1080 HDTV 1080 P to 320x240 or better	
5	Frame rate	Minimum of 50 FPS in all resolution.	
6	Video Streams	1920 x 1080@50/60 FPS(2 MP)	
7	IR illumination	40 Metres or better.	
8	Shutter speed	2~1/12,000 sec or better	
9	Image Settings	Saturation, contrast, brightness, sharpness, Forensic WDR: Up to 120 dB depending on scene, defogging, white balance, day/night threshold, exposure mode, exposure zones, compression, mirroring of images, electronic image stabilization, barrel distortion correction, text and image overlay, dynamic text and image overlay, privacy masks Rotation: auto, 0°, 180° Scene profiles: license plate, forensic, vivid, traffic overview	
10	Event Triggers	Analytics, edge storage events, Supervised external input, virtual inputs through API, shock detection	
11	Event Actions	Pre- and post-alarm video buffering File upload: FTP, SFTP, HTTP, HTTPS, network share and email, Notification: email, HTTP, HTTPS, TCP and SNMP trap	
12	Built-In Analytics	Motion Detection, Tampering, Electronic Image Stabilization, Object classes: humans, vehicles (types: cars, buses, trucks, bikes), line crossing, object in area, time in area, object counting, Loitering	

<b>4. 6 MP INDOOR TYPE FISH EYE CAMERA</b>			
<b>No.</b>	<b>Features</b>	<b>Minimum Specifications</b>	<b>Compliance Y/N</b>
1	Image Sensor	1/1.8" progressive scan CMOS or better	
2	Lens	1.6 mm or better- Fisheye, Single panorama, Double panorama, Quad view	
3	Minimum illumination	Color:0.1 lux F1.6 or better B/W : 0 lux IR LED ON	
4	Resolution	6 MP or better	
5	Maximum Frame Rate	H.264/H.265 : 25fps@2048x2048(50Hz) MJPEG : Max 15fps	
6	Shutter speed	2~1/12,000 sec or better	
7	Digital Image Stabilization	Off / On (Optional)	
8	Defog	Off / Auto / Manual (Optional)	
9	Motion Detection	Off / On Min 6 zones	
10	Privacy Masking	Off / On Min 3 zones	
11	Angle of view:	H: 182°(Wide) V: 182°, D: 182° or better	
12	Image settings	Saturation, contrast, brightness, sharpness, local contrast, tone mapping, white balance, day/night threshold, exposure mode, exposure zones, compression, mirroring, dynamic text and image overlay, polygon privacy mask	

<b>5. VIDEO MANAGEMENT SOFTWARE</b>		
<b>No</b>	<b>Feature Description</b>	<b>Compliance (Yes/No)</b>
1	The Video Management System (VMS) software shall be used to view live and recorded video from capture cards and IP devices connected to local and wide area networks. The VMS software shall have a client/server-based architecture that can be configured as a standalone VMS system with the client software running on the server hardware and/or the client running on any network-connected TCP/IP workstation. Multiple client workstations shall be capable of simultaneously viewing live and/or recorded video from one or more servers. Multiple servers shall also be able to simultaneously provide live and/or recorded video to one or more workstations.	
2	The VMS shall be supplied with minimum 25 nos. of thick clients and 10 mobile clients	
3	The Video Management System (VMS) shall be a software package for comprehensive management of live and recorded video, and associated audio and data.	
<b>4</b>	<b>General Functionality – The VMS shall possess the following general characteristics</b>	
4.1	The VMS shall provide effective monitoring of video from IP cameras and encoding devices, two-way audio and data in real time over local and wide area networks	
4.2	The VMS supports interactive and multi-level mapping	
4.3	The single-screen administration across multiple servers and systems, including:	
4.3.1	It shall support global configuration and monitoring of camera, encoder, and storage settings across the enterprise	
4.3.2	It supports simultaneous administration of all users on multiple servers	
4.3.3	It supports configuration of user authentication using LDAP/Active Directory features of the network	
4.3.4	It supports e-mail / SMS notifications	
4.4	IP address can be assigned manually/automatic for cameras	
4.5	The VMS should support at least 500 Cameras or Encoders from different Manufacturers	
4.6	The client software allow remote access to live and recorded video, including access from mobile devices and support simultaneous access to video from multiple servers	
4.7	The VMS should support 2-way audio communication between server, client, and camera	
4.8	Suspect Tracking : The VMS should provide forensic search operation based on the powerful attribute search feature. The operator can select any person in the camera field of view and search for the appearance of the selected person based on the attire attributes in the selected cameras for the selected duration. The attribute search should show persons with matching attributes in a grid. It should be possible to click on any match to view the playback video of that instant.	

5	<b>Architecture</b>	
5.1	The VMS shall have a client/server-based architecture that can be configured as a standalone VMS with the client software running with equal functionality on the server hardware and/or the client running on any network-connected TCP/IP workstation.	
5.2	The VMS shall record and retrieve video, audio and alarm data and provide it to the VMS clients upon request.	
5.3	<b>The Client Characteristics shall be as per following:</b>	
5.3.1	The Client Software View live video and audio, recorded video and audio and be able to configure the complete system all from a single application.	
5.3.2	The Client Software will have full compatibility with all available features of the VMS server software	
5.3.4	The Client Software shall have Add and Remove features based on the permissions of the user and the licensed functionality	
5.4	<b>The Web Client shall have following features:</b>	
5.4.1	The Web Client can view Live and Recorded Video	
5.4.2	The Web Client can control Pan-Tilt-Zoom movement for PTZ Cameras	
5.4.3	It can activate triggers	
5.4.4	It can get connected with multiple VMS Servers simultaneously	
5.5	<b>The Mobile Client shall have following characteristics:</b>	
5.5.1	The mobile application shall support Apple IOS/ Google Android/ Microsoft Windows Mobile operating systems	
5.5.2	It can remotely view Live and Recorded Video from any Video Server	
5.5.3	The web application should support HLS and MJPEG streaming.	
5.5.4	It can monitor events configured by the Client	
5.5.5	The web service supporting the mobile application shall size the video stream to accommodate both low bandwidth and high bandwidth networks.	
5.6	The VMS software shall allow the user to have any combination of VMS client applications running on any of the supported operating systems and be able to connect to any of the VMS servers running on any of the supported operating systems. Hence, Multiple client workstations shall be capable of simultaneously viewing live and/or recorded video from one or more servers.	
5.7	The VMS software shall have the capability to run multiple client applications simultaneously on one workstation with multiple monitors and at least 12 monitors shall be configurable on a single workstation with one (1) client application running on each monitor.	
5.8	The VMS server software shall have the ability to be installed on an IP edge device—such as an IP camera or encoder that allows for 3rd party applications—allowing the device to serve as both a server and IP video recording device	
6	<b>Video Streaming</b>	
6.1	Video formats supported: MJPEG, MPEG-4, H.264, H.265	
6.2	Each video stream shall have the ability to be recorded, viewed live, saved to views, exported and available in search and playback.	
6.3	Streams shall be individually configurable for recording schedules and storage rules	
6.4	Multi-streaming – The VMS shall allow the setting of multiple, independent video streams from the IP camera, each configurable for frame rate, resolution and quality level.	

7	<b>Recording</b>	
7.1	The Recording should be continuous, uninterrupted and unattended recording of all video and audio transmitted to the VMS, including during times of administration and configuration of any feature	
7.2	The VMS should enhance the videos received from the cameras by adjusting hue, saturation, contrast, brightness, sharpness, IRIS parameters with automatic or manual focus adjustment.	
7.3	The system shall allow to configure each video input's recording time on an hourly basis, to further allow the user to schedule when to record on motion, when to record on event and when to not record	
7.4	The video file shall contain the data of the video, audio, and associated metadata.	
7.5	The index file shall contain the index of the metadata from the network device. When the VMS searches for video, it shall retrieve and display the information in the index files.	
7.6	A bookmarking feature shall allow the tagging, naming, and retention of video clips. The VMS shall bookmark the display layout with selected distribution of cameras across the panel with a mix of live and archived video.	
7.7	The events dashboard should be available with multiple filter parameters such as - by camera, by use case, by camera groups, and the easily selectable duration such as today, last 7 days, last 30 days, and calendar widget, etc.. Reports should be exported in formats such as excel and CSV. The dashboard should also have the graphical representation of the reports in terms of the bar charts and pie charts.	
7.8	The VMS shall support a mix of multiple storage technologies such as local storage/ DAS/ SAN/ NAS or hybrid	
7.9	The VMS shall support configurable "at most" rules that will automatically delete video for a camera after a specified amount of time. The VMS also shall support configurable "at least" rules that will delete newer video on other cameras to preserve older video from cameras with an "at least" rule specified.	
8	<b>Video Archiving</b>	
8.1	The VMS shall provide for the archival of video, audio, and data files, as determined by rules, events, or manual selection. Each archive target has its own set of rules for what cameras and video are archived and when.	
8.2	The VMS shall support CIFS and NFS network shares for archive target locations. It shall be able to archive video to multiple locations and base the archive on camera, event type or an archive schedule.	
8.3	VMS shall be able to archive continuously or on a scheduled basis like weekly schedule and multiple schedules may be combined to derive specific schedule.	
9	<b>Events</b>	
9.1	<b>The VMS should support following Events</b>	
9.1.1	Video motion, critical video data and Incident Video data.	
9.1.2	Video loss of analog video signals	
9.1.3	Device, Server and System Health	
9.1.4	IP camera connection	
9.1.5	Analytics Rule	
9.2	The VMS should support actions on events like Record Video, Output Trigger, Send an E-mail supporting SSL and TLS protocols for encrypted communications. And support AES128 encryption for the communication.	

9.3	The VMS shall call a PTZ Camera Preset as action on events	
9.4	The VMS client shall be configurable to automatically switch views on any event within the event monitoring function.	
10	<b>Search and Playback</b>	
10.1	The VMS can search and play back recorded video, audio and events from VMS servers	
10.2	The VMS shall search and play back video from multiple cameras simultaneously in a synchronized multi-camera layout along with search recorded video based on time, date, video source and image region, with results displayed as both a clickable timeline	
10.3	The VMS shall perform a visual thumbnail search, selecting one image per camera per set time period and can play video from selected image along with zoom in to a time range around selected image	
10.4	The Archived video shall be seamlessly searched during any video search, eliminating the need for a user to separately search the archive location.	
11	<b>Video Information Display</b>	
11.1	The VMS shall have a live display mode, wherein a user shall be able to view live video, live audio and alarm information.	
11.2	The VMS client must feature adaptive bit rate adjustment to conserve bandwidth, displaying cameras in full resolution when viewed individually and switching to lower resolution when in matrix view.	
11.3	The VMS shall allow viewing of cameras in logical groups and preset views.	
11.4	The VMS shall be able to automatically cycle through two or more saved views to create a video tour, with a configurable dwell time for each view.	
11.5	The VMS shall support the use of a panoramic lens on an analog or IP camera. The VMS client shall de-warp the image on both live and recorded video.	
11.6	The VMS shall allow the customization of the user interface to display software (soft) triggers and initiate actions.	
11.7	The VMS shall provide the ability to instantly push selected cameras, layouts, tours, groups or entire views to another client monitor, such as a public view monitor or a video wall.	
11.8	The VMS shall support overlay controls which appear when hovering over a camera in live view :	
	Appearance: text color, font, style, location, camera name, camera no.	
	Control Types: audio inputs and outputs, digital zoom	
11.9	The VMS shall be able to display the following additional system information:	
	a) users currently logged in to the system	
	b) system log containing a detailed history of system processes	
11.10	The VMS shall support display of notifications to the user for common setup tasks that should be performed, including:	
	a) Configuring motion on all cameras	
	b) Changing the default password	
	c) Configuring email notifications	
	d) Configuring of multi-streaming	
	e) Time delta between server and camera	

12	<b>PAN, TILT &amp; ZOOM</b>	
12.1	The VMS shall allow control of PTZ cameras to authorized users and be used to maneuver and zoom a PTZ camera at adjustable speed.	
12.2	The VMS shall allow following methods of controlling a PTZ camera to be available:	
12.2.1	PTZ graphics control windows	
12.2.2	live graphic overlay PTZ control icons	
12.2.3	keyboard control (up, down, left, right arrows; page up, page down for zoom)	
12.2.4	PTZ presets	
12.2.5	digital PTZ	
12.2.6	USB joystick	
13	<b>Mapping</b>	
13.1	The VMS shall have a map capability, accessible to users with the appropriate permission levels.	
13.2	The map displayed video sources and their status, alarm status, multi-layer, hierarchical maps including static and GIS.	
13.3	The VMS shall support embedded maps/ GIS maps/ online maps	
13.4	The VMS should show event notification from the cameras on the map itself. The operator should be able to click on the event notification of a particular camera on the map and the VMS should open the event window on the operator screen.	
14	<b>Export</b>	
14.1	The VMS should allow export of a single video clip or multiple clips with selected duration to a cart. For downloading a single clip, it should have encryption option for the exported clip and should ask to select the export format such as AVI/ MJPEG/ MP4 / AVF format	
14.2	Export file formats supported: .exe, .avi, .ps, .mov, .psx	
14.3	The VMS standalone player shall be able to authenticate that the video has not been tampered with using a AES256 bit encryption	
15	<b>Administration &amp; Configuration</b>	
15.1	The VMS system can authenticate the User's Permission by Active Directory or LDAP	
15.2	The VMS system can allow for a user's permissions to be configured across multiple servers from a single screen	
15.3	The VMS system shall record an audit trail of when users log in that shows what changes they have made, what video they have viewed and what they have exported	
15.4	The VMS software shall provide a configuration option to require 2 users enter unique passwords to authorize tasks involving the viewing of video.	
16	<b>Reporting</b>	
16.1	The VMS provides color coded status of servers, cameras, and unacknowledged events in the following categories in list or chart format:	
16.1.2	Critical as 1) server or camera device not detected and 2) event occurring and unacknowledged	



16.1.3	Warning as 1) Health warning on server (such as temperature, storage alarm, archive alarm, CPU fan), 2) Server license subscription expiring soon, 3) Event unacknowledged but open, 4) Event unacknowledged but closed	
16.1.4	Normal as 1) Server or camera connected and operating and 2) Event acknowledged and closed	
16.1.5	The VMS shall allow creation of Reports to a. view and manage a list of unacknowledged events, b. view a list of open events and c. search for specific events based on various criteria	
16.1.6	The VMS should periodically check the gaps in live recording of the cameras and should check with the on-board storage of the camera. In case of a gap, the VMS should synchronize the video recording on the on-board storage with the VMS storage. Such synchronized storage should be displayed with different color for quick attention of the operator.	
16.1.7	VMS shall support Edge based /server Based/ third party server based analytics	
16.1.8	VMS shall generate the events& alarm wrt to the camera edge based analytics like Perimeter, intrusion, line crossing etc which are available in camera edge.	
17	<b>Failover - (shall support for future requirement)</b>	
17.1	The VMS system should have N:1/N:0/N:N failover/redundancy mechanism architecture	
17.2	The VMS shall support automatic failover/redundancy for recording	
17.3	The VMS shall support manual failover/redundancy for maintenance purpose	
18	This shall allow operations managers and system integrator to build customized video surveillance networks that meet their exact requirements. Software suite shall be a scalable and flexible video management system that could be easily managed and monitored. Scalable system shall permit retrieval of live or recorded video anywhere, anytime on a variety of clients via a web browser interface.	
19	The VMS shall be enabled for integration with any external Video Analytics Systems.	
20	The VMS shall be capable of being deployed in a virtualized environment without loss of any functionality.	
21	All CCTV camera video signal inputs to the system shall be provided to command control Center, and the transmission medium used shall best suit the relative camera deployments and access to the CCTV Network.	

<b>6. Recording Server Specification</b>			
<b>No.</b>	<b>Description</b>	<b>Specification</b>	<b>Compliance/ Deviation</b>
1	Type	Support min128 Channel Rack-mountable NVR or Recording Server	
2	Storage Capacity	Should have Minimum 20 Hard Disk Slots. Supports upto 340TB including RAID5 and 6. with each 18TB per SATA Min 256GB SSD for OS & recording application software	
3	RAID Level	RAID 5/6 (Mega RAID SAS 9351-8i or better)	
4	Network Connections	Dual Gigabit Ethernet (RJ-45 port) – 10/100/1000 Mbps.	

5	Operating System	Linux/Windows	
6	Processor	Intel Xeon processor or better with min 8 core, min 3.4Ghz, up to 4.8GHz at turbo & 16MB cache.	
7	Memory	32GB DDR3 or better	
8	Video Compression	H.264, H.265, MJPEG	
9	Recording Support	Support the simultaneous recording of min 128 IP cameras at 1080p resolution at 15 fps	
10	Synchronous Playback	Minimum 16 Channel	
11	Recording Resolution	4K, 5MP, 1080P, 720P, D1	
12	Network Protocol Support	HTTP/HTTPS, TCP/IP, RTSP, UDP, NTP, DHCP, IPC Search	
13	Bandwidth	1900Mbps useable or better	
14	Minimum Function / Features	<ul style="list-style-type: none"> <li>• ONVIF Profile S or better</li> <li>• Should be able to recover the video from edge storage of Network Camera in case of network failure automatically once the network is stabilized.</li> <li>• Should be able to allocate variable disk space to different cameras to record video for a longer time on the high-security camera.</li> <li>• Water Mark or E-signature</li> <li>• Storage expansion if required</li> </ul>	
15	Input Voltage	100~240 V AC, 50/60 Hz. Dual Power. Any power converter that is required to power the NVR has to be supplied by Bidder. With redundant power supply	
16	Operating System temperature	10°C ~ 25°C or better	
17	Approval	FCC, BIS, UL	
<b>Note: Bidder can provide Recording Server+ VMS instead of NVR if required. In such situation server specification should be as per the recommendation of VMS OEM. Bidder need to submit the recommended server specification from VMS OEM along with the MAF. The bidder has the flexibility to go for multiple server/NVR for meeting the recording parameter/backup, but the hardware spec of each server shall be minimum as above.</b>			

<b>7. <u>Minimum Hardware Specification for Client workstation</u></b>		
<b>No.</b>	<b>Feature Description</b>	<b>Bidder Compliance (Y/N)</b>
1	CPU : Intel i7 or better	
2	RAM : 16 GB or better	
3	OS Drive : 128 GB SSD or better	
4	Operating System : Microsoft Windows 10 or Ubuntu Linux 18.04	
5	NIC : 2 x 1 Gbps	
6	Min 8 GB NVIDIA or more similar discrete graphics card for 2 monitor 32 streams	
<b>Note: If VMS OEM recommends higher server configuration, please specify the higher one.</b>		

8. **Specification for Rack Mount Recorder**

BOQ				
No.	DESCRIPTION	QTY	UNIT	Make & Model
1	<p><b>Supply, Installation, Testing and Commissioning of Video Management Server with the following features:</b></p> <p>The Video Management System (VMS) software shall be used to view live and recorded video from IP devices connected to local and wide area networks. The VMS software shall have a client/server-based architecture that can be configured as a standalone VMS system with the client software running on the server hardware and/or the client running on any network-connected TCP/IP workstation. Multiple client workstations shall be capable of simultaneously viewing live and/or recorded video from one or more servers. Multiple servers shall also be able to simultaneously provide live and/or recorded video to one or more workstations. The VMS shall be supplied with a minimum of 25 nos. of thick clients and 10 mobile clients. The VMS client should be run on Windows or Linux platform.</p> <p>The VMS should support more than 1000 Cameras or Encoders from different Manufacturers (minimum 50). The VMS should support 2-way audio communication between server, client, and camera. Video formats supported: MJPEG, MPEG-4, H.264, H.265. Each video stream shall have the ability to be recorded, viewed live, saved to views, exported, and available in search and playback. Supports Multistreaming. Support local HDD disk storage, iSCSI extended storage, and auto-fill back from Camera SD cards.</p> <p>Supports events: Video motion, operating on the encoded video, Device, Server and System Health, video loss, Analytics Rule. Support actions on events like Record Video, Output Trigger, Send an E-mail supporting SSL and TLS protocols for encrypted communications, support nested or embedded maps &amp; can place, view and activate soft triggers from the MAP. Supports Export file formats supported: .exe, .avi, .ps, .mov, .psx.</p> <p>The VMS shall be enabled for integration with any external Video Analytics Systems &amp; camera edge based VAs also. Bidder shall consider camera edge based analytics or separate server based analytics for delivering proper events &amp; alarms with respect to the VA required (Bidder shall consider all VA mentioned in the camera specification).</p> <p>The VMS Server shall support failover architecture &amp; support automatic failover for recording.</p> <p>License : <b>Bidder shall consider 200 numbers of Camera licenses, which shall be allocated to VMS/recording server as per the VMS architecture.</b></p> <p><b>Warranty 5 years &amp; Software support with upgrades for 5 more years</b></p>	1	Lot	

2	Supply, Installation, Testing and Commissioning of Central Video/database Management Server with CPU : Intel i7 or better, RAM : 16 GB or better, OS Drive : 128 GB SSD or better Operating System : Microsoft Windows 10 or Ubuntu Linux 18.04, NIC : 2 x 1 Gbps as per Tender specification. Warranty 5 years & Software support with upgrades for 5 more years	1	Nos	
3	Supply, Installation, Testing and Commissioning of Camera Recording Server/NVR, Supports 128 Camera Recording, Capacity: Should have Minimum 20 Hard Disk Slots. Supports upto 340TB including RAID5 and 6. , Min 256GB SSD for OS & recording application software RAID Level: RAID 5 and 6, Network Connections: Dual Gigabit Ethernet (RJ-45 port) – 10/100/1000 Mbps. Operating System: Linux, Processor: Intel Xeon W processor or better with min 8 core, min 3.4Ghz, up to 5GHz at turbo & 16MB cache, Memory: 32GB DDR3 or better, Video Compression:H.264, H.265, MJPEG, Recording Support: Support the simultaneous recording of min 128 IP cameras at 1080p resolution at 15 fps Synchronous Playback: Minimum 16 Channel, Recording Resolution: 4K, 5MP, 1080P, 720P, D1, Network Protocol Support: HTTP/HTTPS, TCP/IP, RTSP, UDP, NTP, DHCP, IPC Search, Bandwidth: 1900Mbps useable , Minimum Function / Features: ONVIF Profile S or better, Should be able to recover the video from edge storage of Network Camera in case of network failure automatically once the network is stabilized, Should able to allocate variable disk space to different cameras to record video for a longer time on the high-security camera, supports tamper proof video export, Storage expansion if required . Hardware Warranty 5 years & Software support with upgrades for 5years	2	Nos	

NO.	DESCRIPTION OF ITEM	
9	<b>4/8-port POE+ Switch With 2 SF PORT</b>	
	<b>Specification</b>	
	Interfaces	Minimum 4 X 10/100/1000 Mbps ports with 2x1G SFP
	PoE Budget	55 watts
	IEEE	802.3af/802.3at
	<b>Performance</b>	
	Switching Capacity	20Gbps
	Mac address Table	8K
	Vlans	64
	Packet buffer memory	512kb
	CPU Memory	128MB DDR RAM
	Flash Memory	32MB

	Jumbo Frame	10k
	Management	Supports IPv6 Management
		• web Based Graphical User Interface
	Environmental	Switch should have operating temperature range of 0-40C in continuous operation
	Certifications	UL, CE/FCC, BIS, IS
	Warranty	5 year Warranty
10	<b>24-port 1/10G Base-X Layer-3 Stackable Managed Switch.</b>	
	<b>Physical Interfaces</b>	2 # 1/10G Base-T Copper Ports(shared)
		24 # 1/10G Base-X Fiber SFP Ports
		Ethernet: Out-of-band 1G port, Console: RJ45, Console: Mini-USB, Storage: USB
	<b>CPU/ Memory</b>	CPU: 800 MHz
		RAM: 1 GB
		Packet buffer memory: 32 MB
		Flash: 256 MB
	<b>Environmental</b>	Operating Temperature: 0° to 40°C)
	<b>Certifications</b>	UL,CE,FCC, BIS, IS
	<b>Warranty</b>	5 year Warranty
11	<b>24-port 1000base-T Gigabit PoE+ Smart Switch</b>	
	<b>Physical Specifications</b>	24 # 10/100/1000 Base-T auto-sensing PoE+ ports and 4 dedicated 100/1000 Base-X Fiber SFP ports
	<b>Performance Specification</b>	Bandwidth: 56 Gbps non-blocking or above
		Forwarding rate: 41mpps or more
		MAC Address database size: 16 media access control (MAC) addresses or more
		VLAN: 256 or above
		Packet buffer: 1.5Mb or above
		Jumbo frame: 9216
		PoE budget: 190W or more
	<b>Certifications</b>	UL,CE/FCC, BIS, IS
	<b>Warranty</b>	5 year Warranty
12	<b>24-port 1000base-T Gigabit Smart Switch</b>	
	<b>Physical Specifications</b>	24 # 10/100/1000 Base-T auto-sensing ports and 2 dedicated 100/1000 Base-X Fiber SFP ports
	<b>Performance Specification</b>	Bandwidth: 52 Gbps non-blocking or above
		MAC Address database size: 16 media access control (MAC) addresses or more
		VLAN: 256 or above
		Packet buffer: 2MB or above

		Jumbo frame: 9216
		Multicast groups: 512
		Mac: 16k or more
	<b>Certifications</b>	UL,CE/FCC, BIS, IS
	<b>Warranty</b>	5 year Warranty
13	<b>SFP module</b>	
	1G Single Mode Duplex SFP module with 3 year warranty.	
14	<b>P2P Point to point Wireless Connectivity</b>	
	Antenna Type	Omni directional/Flat Panel
	Antenna Gain	19 dBi
	Antenna Beamwidth	3 dB - 14.5°/3 dB - 12.5°
	Environmental	IP67
	Temperature	-30°C to 60°C
	Wind Survival	200 km/h (124 mph)
	Certifications	CE ,FCCID, BIS, IS
	Warranty	5 year Warranty
15	<b>800 VA UPS with INBUILT BATTERY (minimum Capacity)</b>	
	Input Voltage	220/230 vac
	Input Voltage Range	160-300 vac
	Frequency Range	50 hz & Variation as per IS
	Output	Minimum one hour backup
	A/c Voltage Regulation	As per IS
	Waveform	Simulated Sine Wave
	Transfer Time	4-8 ms
	Warranty	5 year Warranty
16	<b>UPS of Capacity as required for the System with BATTERY (minimum Capacity 2KVA or higher)</b>	
	Input Voltage	220/230 vac
	Input Voltage Range	160-300 vac
	Frequency Range	50 hz and variation as per IS
	Output	Minimum one hour backup
	A/c Voltage Regulation	As per IS
	Waveform	Sinusoidal
	Warranty	5 year Warranty
17	<b>Lightning Arrestor</b>	
		1 meter Copper Alloy based lightning Arrestor, clamp, wire with Graphite based chemical compound earthing and min 250 microns copper bonded low carbon steel rod, Earthing strip of 25x3/6 mm

18	<b>Outdoor POE in-line surge protector</b>	
	Standards compliance:	IEC 61643-21/ EN 61643-21 / UL497B IEEE 802-3af/3at/3bt/ ANSI/TIA-568-C.1
	Certification:	UL
	Technology:	GDT/ diode
	Network:	POE
	Max. DC operating voltage	60 Vdc - 650 mA
19	<b>Type 2 DC surge protector - 30 V</b>	
	Standards compliance:	IEC 61643-11 / prIEC 61643-41
	Remote signaling of disconnection:	output on NC contact
	Max. DC operating voltage:	30 V DC
	Max. discharge current	3 kA
	Admissible short-circuit current:	10000 A
20	<b>Rack /Poly Carbonate Box</b>	
		The lockable Metal door at the front and the rear ends are closed. With required fittings to fix it on a wall/pole
		It can be used as Pole-Mount or Wall-Mount.
		IP56 Certified Weatherproof Rack with cooling fan
		Minimum Dimension (600mm x 200 mm x 170 mm)
		The tenderer should consider the applicable size of each Outdoor Box / Rack as per the site. Rack/box should accommodate with all active and passive products required with neat and tidy arrangement
	Warranty	5 year warranty

## 23. FIBER SPECIFICATIONS -TECHNICAL SPECIFICATIONS FOR PASSIVE CABLING

### Single mode(OS2) Armoured Indoor/Outdoor Fiber cable -Dry tube

No.	Specifications	Requirement
1	Cable Type	Single Jacket, Armored, Dry tube, Indoor/Outdoor Stranded Loose Tube Cable
2	Fiber Type	G.652.D Single mode OS2, Zero Water Peak Cable
3	No of cores	6
4	Fiber dia. and identification	9/125/250 with different color sequence as defined by TIA standard for identification
5	Armoring Type	Corrugated Steel Tape Armour for crush and rodent protection
6	Outer Sheath	FRLSZH with Minimum 2.1MM thickness
7	Strength member	Glass Yarns-Peripheral

8	Loose Tube	Dry tube construction and one water blocking yarn in each loose tube
9	Jacket UV Resistance	UV Stabilized
10	Jacket Color	Black
12	Minimum Bend Radius	440 mm (Loaded) 115 mm (Unloaded)
13	Tensile Load, Maximum	1250 N @ 0.25% FIBRE STRAIN
14	Operating Temperature	-20 °C to +70 °C
15	Cable weight	120KG/KM
16	Diameter Over Jacket	10.50 MM
17	Water Penetrations Test Method	24 hours (as per IEC 60794-1 F5)
18	Attenuation, maximum	0.22 dB/km at 1550 nm 0.34 dB/km at 1310 nm
19	Standards	EN 50173, ISO/IEC 11801, ANSI/TIA-568-C.3, IEC 61034-2, IEC 60754-2
20	Regulatory Compliance	RoHS 2011/65/EU compliant
21	Country of origin	Product country of origin and associated manufacturing plant details to be furnished for verification
22		Includes all required accessories such as fully loaded fiber panel and patch cords to complete the structured cabling including 2years warranty as per specification

## 24. CABLE SPECIFICATIONS:

### Cat-6 U/UTP Indoor/Outdoor Cable-Double sheath Anti-rodent cable

No.	Details	Specification
1	Type	Unshielded Twisted Pair, Jell free, Category 6, TIA / EIA 568-C.2& ISO/IEC 11801
2	Environment	Double jacketed cable for indoor & outdoor application and crush resistance
3	Conductors	23 AWG solid bare copper
5	Insulation	Polyolefin
6	Outer sheath	LSZH for Indoor purpose
7	Inner sheath	Polyethylene, UV Resistant for outdoor purpose
8	Pair Separator	Cross-member (+) fluted Spline.
9	Temperature range	-20 Deg. C to +70 Deg. C
10	Frequency tested up to	Minimum 250 MHz
11	Packing	Box of 305 meters
12	Cable Outer Diameter	7.2 mm nominal
13	Delay Skew	45ns MAX.
14	Bend Radius	28mm Minimum
15	Anti-rodent	Must be Anti-rodent with Black
16	Conductivity	Cable shall not have any metal/Armour layer to protect. They can carry the electrical/lighting current directly to switch, if the cable is



		exposed to environment
17	Impedance	100 Ohms + / - 15 ohms, 1 to 250 MHz.
18	Mutual Capacitance	5.6 NF MAX /100 Mtr.
19	Conductor Resistance	66.58 Ohms Max / KM
20	Propagation Delay	536 ns/100 Mtrs. MAX @ 250 Mhz
21	Transmission Standards	ANSI/TIA-568.2-D, ISO/IEC 11801 Class E
22	Remote Powering	Cable shall be fully complied with the recommendations set forth by IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable when installed according to ISO/IEC 14763-2, CENELEC EN 50174-1, CENELEC EN 50174-2 or TIA TSB-184-A
23	Performance characteristics to be provided along with bid	Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR
24	ROHS Compliant	ROHS/ELV Compliant
25	Accessories	Includes all required accessories such as patch panel, reusable IDC connector, patch cords to complete the structured cabling including 2 year warranty as per specification

## 25. General requirements of camera.

Both PTZ and fixed cameras shall be supplied with its mounting arrangements as per the site conditions, i.e., wall or pole mounted with all required accessories and fitments. The entire camera shall be provided with IP66 housing. Outdoor housing (IP66) should be from the same camera manufacturer. It should be die- cast and extruded Aluminium construction.

- (1) POE switch shall be supplied and installed complete with all accessories for viewing the video signals individually at Centralized Video Surveillance system control room (CVSS) as per technical specification.
- (2) The Camera Power supply is for extending the UPS power to the PTZ cameras from the UPS out socket. The scope includes wiring materials, its accessories, plug & Sockets if required. The method measurement is taken as unit rate.
- (3) The Power cable is intended for drawing raw power from available source to the UPS to be provided near camera location.
- (4) In case where the distance of NVR and camera is more than 70 mtrs, OFC can also be used for which necessary splicing arrangements shall be supplied by the firm without extra cost.
- (5) HDPE pipe shall be suitable for drawing the CAT 6, STP cable/OFC conforming to relevant IEC/BIS. The HDPE material shall conform to ASTM D 3350. Necessary clamps, fasteners etc shall be supplied when the pipe is drawn through wall/structures etc.
- (6) The PVC conduits are meant for drawing power cables. The size of the conduits shall be 38mm diameter. Saddles for fixing conduits shall be heavy gauge non-metallic type with base. Bends, couplers etc of solid type shall also be used along with conduits as per requirement.

**26. Supply and laying of HDPE pipe below the ground.**

HDPE pipe are proposed for laying the OFC and data cables for use of CCTV communications. The HDPE pipes shall be laid through open trenches, hard surfaces after excavation of same at about 50 CM depth and excavated portion shall be backfilled, compacted with excavated material with compaction without damaging the pipe and cables. Loose soil cover shall be provided above the HDPE pipe for avoiding damage to the cables and pipes. For vehicle crossing areas sufficient depth shall be maintained to avoid damage to cables. Cable route marker shall be provided without any extra cost at required interval. Excavation shall be done by JCB/ manual by taking extreme care without damaging the existing cable and other utilities in the location. If any damaged has occurred to the utilities the contractor shall make good the damaged portion by his own cost.

**27. Resurfacing the hard surface after excavation.**

The excavated hard surface shall be resurfaced with Cement Concrete after proper compacting the area.

**28. Fixing and Foundation for Poles**

Poles supplied for fixing the CCTV shall be erected with suitable CC foundation with at least 30 CM diameter and 50 cm depth from ground and 20 CM above ground. Sufficient supports shall be given at bottom of poles for proper fixing of same. At the top of the poles necessary GI sheet cover shall be provided for the protection of Cameras as per requirements.

**IV. COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT**

**1. The Annual Maintenance Contract shall cover the items as per Schedule.**

The contractor should enter into a 5 years CAMC with the Port Authority, after the successful completion of 2 years guarantee period, for the upkeep of the system and the cost of the same should be shown separately for each year in the price schedule.

**2. The AMC should be a comprehensive one and covers repairs and servicing to the complete system (**software and hardware and connected accessories**), replacement of all parts required for the satisfactory functioning of the system and the breakdown maintenance. The AMC rate shall be inclusive of the following items.**

- a) Cost of spare parts.
- b) Cost of all types of cables and other accessories

During AMC period the contractor would be bound to ensure that all the equipments and other software hardware systems are in working condition.

**3. The AMC period will start on completion of the mandatory guarantee period of 2 years. A separate order will be issued for the Annual Maintenance Contract, before the completion of the guarantee period of the installation.**

- (i) **Security Deposit:** The successful bidder is required to submit Security Deposit equivalent to **10%** of the total AMC cost within 21 days from the date of issue of

AMC Order, to guarantee fulfillment of performance and the obligations of the AMC contract, furnished in the form of Account Payee Demand Draft, Banker's cheque, Bank Guarantee from any Commercial Bank in India [*in favour of FA&CAO, Cochin Port Authority, encashable at Cochin*] or online payment to the designated bank account of CoPA in an acceptable form safeguarding the Purchaser's interests in all respects.

- (a) In case the Security Deposit is furnished in the form of Bank Guarantee, the same should remain valid for a period of 60 days beyond the completion of AMC period.
  - (b) Cochin Port is not bound to pay interest on the Security Deposit furnished by the successful bidder.
  - (c) In the event of the Contractor failing to honour any of the commitments entered into under this Contract, Cochin Port shall have unconditional option to encash the Security Deposit. The bank shall be obliged to make payment to Cochin Port upon demand.
  - (d) The security deposit furnished towards "SITC of CC cameras & accessories" will be released and returned only after submission of SD and execution of Agreement for AMC
- (ii) **Agreement:** Upon the receipt of letter intimating award of the Contract (LoA) for AMC, the Contractor will be required to execute an Agreement at his expense within 21 (twenty one) days from the date of Letter of Acceptance (LoA), on Kerala State Stamp Paper of value Rs.200/- in the prescribed form as per Annexure-B. Agreement can be entered only after furnishing of Security Deposit by the contractor. Contractor has to prepare four sets (one original and three duplicates) of the Agreement as per the format attached at Annexure-B in the Tender Document.
4. The Port Authority shall have the option to terminate the Annual Maintenance Contract, any time before the completion of the AMC period. In such cases, only pro-rata AMC amount will be paid. If any disputes arise, the same shall be settled through the Courts in Kochi.
  5. Upon written intimation/ intimation over telephone/ mail/ whatsapp of a complaint/ defect (during the guarantee/ warranty/ AMC period), the contractor should send representative(s) to attend the defects immediately, but not later than 2 hours. If the equipment become nonfunctional beyond the period of 12 hours due to delay in rectifying the defect, proportionate deduction on pro rata basis shall be effected from the running bill of the contractor on AMC charges. However the routine maintenance with prior approval shall not be counted for arriving at the availability of the system.
  6. The routine /usual visit/ inspection/preventive maintenance should be done at least once in a month and the report submitted to Dy. Chief Mechanical Engineer (Electrical). This visit shall be done with the permission/in the presence of the officer concerned and should cause only minimum disturbance to the functioning of the system.
  7. **Payment for AMC**
    - a) AMC will start after expiry of the guarantee period. Separate order shall be issued for the AMC on successful completion of guarantee period 2 years.
    - b) AMC charges shall be released on successful completion of comprehensive maintenance on half yearly basis subject to the certification of Engineer in charge.

8. During the AMC period of 5 years, if the system as a whole or any accessory/ equipment / item of the system is rendered non-operational a penalty @1% of the AMC amount for the year per week or part thereof will be levied for the non-operational days, the maximum of which shall be limited to 10% of the contract value for that year. Hours of non functionality in different spells will be accumulated to arrive at a day and a week. Day shall mean an English Calendar Day and seven such calendar Days will be a week. The LD amount so deducted shall be in addition to the deduction of AMC amount due to the contractor as mentioned in clause No.19 of GCC.

However the routine maintenance with prior approval shall not be counted for arriving at the availability of the system.

9. The technicians of the Contractor shall take the images at the specified times as required by CoPA in pen drive or HDD.

### **V. APPROVED MAKES**

CCTV CAMERA	As per Technical Specification. The Bidder shall submit letter, as per the format (Annexure-D), from OEM expressing his assurance on functionality by extending technical support including supply of spares for a period of 7 years.
<b>VMS ***</b>	As per technical Specification and as selected by the Bidder. Please Note that the selected brand & Model shall be compatible with new & existing CCTV Camaras. The Bidder shall submit letter, as per the format (Annexure-D), from OEMs expressing their assurance on functionality by extending technical support of the proposed items including supply of spares for a period of 7 years.
CAMERA RECORDING SERVER OR NVR	
CENTRAL VIDEO AND DATABASE MANAGEMENT SERVER	
WORK STATION/ PC	
NETWORK SWITCH / SFP MODULE	
NETWORK/ OUTDOOR RACK	
HARD DISK	
UPS WITH BATTERY	
OFC / CAT 6 CABLE	MOLEX / COMSCOPE/ PANDUIT/ LEGRAND/ FINOLEX/ CORNING/NEXANS/ Any other make with approval of CoPA
POWER CABLE	FINOLEX/ Q FLEX/ RR KABEL/ RPG CABLES/ LAPP KABEL/ V-GUARD/ HAVELLS/ L&T/ KEI/ RALLISON/Any other make with approval of CoPA
SURGE PROTECTOR	APC/DHEN/ CAPE ELECTRIC/OBO BETTERMANN/ L&T/
LIGHTNING ARRESTOR	Any other make with approval of CoPA
LED MONITOR	SONY/ PANASONIC/ SAMSUNG/ PHILIPS/ LG/ Any other make with approval of CoPA

MCB'S, SWITCHES, ADAPTORS ETC	LEGRAND / MERLIN GERIN/MK/ ABB/ GE POWER / HAVELLS/ HPL/ SIEMENS/ L&T/ MDS/ INDOASIAN/ Any other make with approval of CoPA
PVC CONDUIT	ISI marked Brands
HDPE PIPE	

\*\*\* It is the Successful Bidders responsibility to integrate the new 35 Nos. CCTV cameras and old 49 Nos. cameras and ensure that the images and surveillance is possible at the CCTV Control Room on the 7<sup>th</sup> floor of the New Administrative Building. The work shall be considered completed and taken over by CoPA only if the Contractor illustrates the images and satisfactory surveillance at the desired locations including mobile phones. The Contractor shall ensure that the VMS shall also support various brand and type of cameras which may be added in the near future. An undertaking shall be submitted in the bid that the OEM support shall be available for the CCTV Cameras, VMS, Server, HDD, High End work station, professional display etc. for at least 7 years from the date of commissioning. The Images shall be stored and made available for retrieval for 90 days. There shall be 5 year OEM warranty for the above items.

## SECTION V

### GENERAL DESCRIPTION OF WORK

#### 1. General

Where it is mentioned in the Specifications that the Contractor shall perform certain Work or provide certain facilities, it is understood that the Contractor shall do so at his own Cost.

The materials, design and workmanship shall satisfy the relevant Indian Standard, the Specification and conditioned herein referred to. Where the Specifications stipulate requirement in addition to those contained in the Standard codes and Specifications, these additional requirements shall also be satisfied.

#### 2. Scope of work

The requirement, calls for a complete working system and not components thereof. Bids must be complete with all equipment and required accessories along with necessary power systems including standard video connectors, patch connectors, patch leads, mounting and fitting hardware, plugs, sockets and any hardware/ software, etc. as required for complete installation of the System under this contract.

The scope of this tender includes, Supply, installation and commissioning of IP based CCTV surveillance system, involving fixed camera and VMS compatible to the existing system.

##### ***Function requirement:***

- 1) Easy and convenient operation
- 2) Stability
- 3) Back-up as evidence
- 4) Cameras shall be manufactured with high reliable components, with long lifespan.
- 5) The contractor shall ensure that the system is supplied, installed and commissioned as per user's satisfaction.
- 6) The contractor has to provide Media as required for all the software.
- 7) The installed system shall have the latest version of the applicable software.
- 8) The contractor shall customize the complete system as per user requirement.
- 9) The contractor shall provide software compatibility support to up graded hardware if any, for the next 10 years.
- 10) The scope also includes making good defective materials/items and the workmanship during the guarantee/warranty period.

#### 3. Site Conditions

##### **Location**

The project area is at Willingdon Island, Cochin-682009.

##### **Rainfall**

The climate is characterized by dry and wet seasons. The wet seasons starts in late May and ends in November. During this period, two monsoons pass by one after another. The major monsoon is south-west monsoon which lasts from June to September. This is followed by north-east monsoon during October and November. The average annual rainfall is about 3000mm; and the major portion is during south-west monsoon.

### **Temperature**

Cochin experiences moderate temperatures throughout the year. The temperature varies from 22° C to 34° C. The low temperature occurs during the southwest monsoon, December and January. Daytime temperature goes upto 30° C and during this period. The hot months are from March to May.

#### **4. Time Schedule and monitoring of progress**

The contractor will be required to furnish a phased programme of the works as to how he intends to complete the work to the Employer within 7 days from the date of receipt of the Work Order/Letter of Acceptance from the Employer as mentioned in Clause no.6.2 of GCC.

#### **5. Facilities to be provided by the Port**

Electric power required for the work can be supplied by the department from the nearest existing line of the Port Authority at prevailing rates. The cost of drawing temporary lines/ cables/ providing switches and making connection and metering arrangements etc, shall be borne by the Contractor. If there is any disruption in the power supply due to supply failure/ restrictions imposed by the Kerala State Electricity Board, the department shall not be held responsible and the Contractor has to make suitable alternative arrangements at their cost.

#### **6. Contractor's responsibility**

- 6.1 All materials for use on the works shall be supplied and provided by the contractor at his own cost and shall conform to relevant BIS Specification unless otherwise specified
- 6.2 Samples of all materials including fixtures, if any, to be incorporated in the work shall be got approved by the Engineer-in-Charge before procurement.
- 6.3 The contractor shall thoroughly study the specifications and drawings and errors/omissions/modifications if any shall be brought to the notice of the Engineer-in-Charge well in advance so that a final decision in the matter could be given in time.
- 6.4 All labour, skilled or unskilled shall be provided by the contractor. Settling any dispute with the labour will be contractor's responsibility.
- 6.5 The contractor shall be solely responsible for any damage or injury to the persons or things caused or suffered during the execution of the work and these shall be made good or compensated at his risk & cost.
- 6.6 The contractor shall take all care and precautionary measures for avoiding any kind of damage/accident in the work site on any account. The department shall not entertain any claim from the contractor whatsoever towards compensation for any damage/accidents at the site due to negligence from his part, during the execution of work.
- 6.7 The contractor shall prior to commencement of the work insure in the joint names of the Employer and the contractor against all loss or damage from whatever cause arising for which he is responsible under the terms of contract.
- 6.8 The work shall be arranged by the contractor without causing any damage to Port's/ any other structures. Any damage caused by the contractor's operation shall be compensated/made good at contractor's risk and cost to the satisfaction of the Engineer-in-Charge of the works, failing which department will do the rectification work and the cost incurred will be recovered from any sum due to him from the Port.
- 6.9 All plants and equipments and consumables required for the whole work shall be provided by the contractor at his own cost.

- 6.10 The contractor shall not construct any structure, even of temporary nature, for any purpose at site, except with the written permission of the Engineer-in-Charge of the work and any construction so put up shall be removed by the contractor whenever the Engineer-in-Charge calls upon the contractor to do so.
- 6.11 Qualified Engineers with sufficient experience in works of similar nature shall be available at site throughout the contract period during working hours in order to receive instructions from department and to implement them properly and in time.
- 6.12 The contractor shall take all care and precautionary measures for avoiding damage or accidents to the work from ship or other water crafts movements or other operations in the area. The department will not entertain any claim from the contractor whatsoever, towards compensation for any such damage or accident occurring during the execution of the contract.
- 6.13 The contractor shall observe all safety regulations during the execution of the work. Safety measures, precautions, warning signals etc. shall be done at the contractor's cost as directed by the Engineer-in-charge of the work. The contractor shall provide all necessary personnel protection equipments such as helmet, lifeguard, goggles, boots etc. to the workmen at his own risk and cost.
- 6.14 The work shall be arranged by the contractor without causing any hindrance to the ship and other water craft operating in the area. No damage shall be caused to the structures in the area, water crafts operating in the area or otherwise by the contractor's operations. Any damage or accident caused by the contractor's operations shall be compensated / made good at the contractor's risk and cost.
- 6.15 The contractor shall supply at his own cost monthly or at intervals as directed by the Engineer-in-charge, well executed photographs in standard size (approximately 24x18 cm) showing the progress of the work and also such other particular item of the work.
- 6.16 No information or photograph concerning the works shall be published without the prior permission of the Chief Mechanical Engineer and drafts of all such proposal/ publication shall be submitted for approval.
- 6.17 The information and data shown in the drawing and detailed elsewhere in the tender document are furnished for general information and guidance only and the Port Authority in no case will be held responsible for the strict accuracy thereof or any deduction, interpretation or conclusion drawn by the tenderer.
- 6.18 The contractor shall observe the conservancy rules relating to the Port and shall always take necessary steps to keep the Port water free of noxious or unhygienic matter due to the work, as are required by the Engineer-in-Charge. Under no circumstances, inflammable materials be allowed to spill into Port area.
- 6.19 The Cochin Port is an International Ship & Port Facility Security (ISPS) code compliant Port and the contractor is obliged to comply with the provisions of the code in force and as amended from time to time. The site for the proposed work is a protected area and hence security rules and regulations including obtaining entry/ exit passes including photo passes if any for vehicles, men and materials etc. for entering the area shall be observed by the contractor at his cost.
- 6.20 The contractor shall provide necessary arrangements as desired by the Engineer- in-Charge for inspection of work without any extra cost from commencement till completion of work.
- 6.21 The Contractor shall ensure that no labourers with criminal background are engaged for the work.



- 6.22 All fossils, coins, articles of value or antiques and structures and other remains or things of geological or archaeological interest discovered in the site of work shall be deemed to be the absolute property of the Port Authority and the contractor shall take responsible precautions to prevent his workmen or any other persons from removing or damaging any such article or thing and shall immediately upon discovery thereof and before removal, acquaint the departmental officers of such recovery and carry out at the expense of the department, the Engineer-in-Charge's orders as to the disposal of the same.
- 6.23 The contractor shall remove any plant (floating or otherwise) belonging to him or to any person employed by him which might have sunk in the course of work or otherwise deal with the same as directed by the Engineer-in-Charge and until the same is raised and removed, the contractor shall set on such buoys and display at night such lights for avoiding any mishaps.
- 6.24 Water required for the construction works including curing work shall be arranged by the contractor on his own cost.
- 6.25 The contractor shall take all precautions for not to damage any cables/pipes etc. passing through the area of work.
- 6.26 While carrying out hot works such as welding, cutting, chipping the concrete etc. the following conditions shall be strictly observed by the contractor:
  - (i) Hot work shall be carried out with the approval of the Dy. Conservator's department and the work shall be done as per the instruction of the fire service personnel.
  - (ii) Welding/gas cutting work shall be carried out only with the prior permission of the Marine Dept. and only when vessel carrying inflammable materials is not berthed at the existing berths near to it.
- 6.27 The contractor shall remove all materials brought to work site /stacked at the work site or anywhere else within the Port area and clear the site at his cost to the full satisfaction of the Engineer-in-Charge before the site is returned to the Port Authority. All such materials including debris, tools & plants etc. shall be disposed off to any place as pointed out by the Engineer-in-Charge or be taken away from the location and shall be cleared in every respect and to reinstate to its original condition at no extra cost to the Port Authority immediately after completion of the work. In case, any such material is found left in the work site or anywhere in the Port area, rent for the storage space occupied by the contractor, either for stacking the materials/debris or for areas used for such purpose but not cleared thereafter, will be recovered as per the prevailing Scale of Rate of Cochin Port Authority, for the rent applicable for open storage space for commercial purpose, for the period for which the area had been occupied by the contractor. In addition to the above, in case the Port requires the area immediately for its use, Port will repossess the land after restoring it to its original condition, material will be confiscated and disposed off at the risk and cost of the contractor, after issuing two notices giving 15 days' time each for removing the material. All expenses incurred on this shall be recovered by disposing off the material if any confiscated. If any balance amount still remains to be realized that will be recovered from the contractor by appropriate means.
- 6.28 The contractor shall extend all the facilitations and cooperation for other contractors for simultaneous execution of other works in the area entrusted by Cochin Port Authority.
- 6.29 The contractor shall comply with all the provisions of the Indian Employees Compensations Act, Provident Fund Regulations, Employees Provident Fund and ESI Act etc. amended from time to time and rules framed there under and other laws affecting the contract labour that maybe brought in to force from time to time."
- 6.30 The contractor shall be registered under EPF and ESI Act and the employees employed under them shall be covered in the EPF and ESI scheme. LoAs shall be issued only to the contractors

who are registered under EPF organization and ESI Corporation. The contractors shall regularly remit the employer and employee contribution to the authorities. If not, the Department would remit the same and the amount so remitted shall be deducted from the part/final bill of contractors.

- 6.31 The contractor shall provide, at every work place, at which 20 or more women workers are ordinarily employed, crèches of reasonable size and with adequate facility for the use of their children under at the age of six years at this risk and cost.

## **7. Workmanship**

- 7.1 All the works shall be done strictly according to relevant B.I.S. Specifications unless otherwise specified.
- 7.2 The whole work shall be completed in a diligent manner within the contract period and defect or imperfection if any, observed during the defect liability period/ guarantee period, shall be rectified at contractor's cost to the full satisfaction of the Engineer-in-Charge within the time allowed.
- 7.3 The work shall be arranged in the order of preference as directed by the Engineer-in-Charge of work. In addition to above, contractor shall submit a Quality Assurance Plan (QAP) for the work and it shall be approved by the Engineer-in-Charge before commencing the work and shall be ensured strict compliance of the same. The QAP shall contain the details of tests to be conducted for each material to be used in the work and work.**

## **8. Temporary works**

- 8.1 All scaffolding, staging, bracing and other temporary works required for proper execution of the works, shall be provided by the contractor at his own cost, unless stated otherwise and that should be inclusive of all materials, labour, supervision and other facilities. The layout and details of such temporary works shall have prior approval of the Engineer-in-Charge, but the contractor shall be responsible for proper strength and safety of the same. All temporary works shall be so constructed as not to interfere with any permanent work or with the work of other agencies. If it is necessary to remove any of the temporary works at any time to facilitate execution of works or work by other agencies, such removal and re erection, if required, shall be carried out by the Contractor at the direction of Engineer-in-Charge without any delay and any extra cost on this account shall be borne by the contractor.
- 8.2 On completion of the works, temporary works if any provided by the contractor shall be removed from the site and the area shall be reinstated to the original condition at his own risk and cost.

## **9. Time for Completion**

- 9.1 The time allowed for carrying out the work as mentioned in the tender notice shall be strictly observed by the contractor. The work shall throughout the time period be preceded with diligence, time being deemed to be the essence of the contract.
- 9.2 The completion of work may entail working in monsoon period/rainy season without any extra cost. The contractor shall take such an eventuality into consideration while quoting for the work. Normally, no extension of time will be admissible for work in monsoon.

## **10. Working time**

The normal working time of the Port Authority is from 8 a.m. to 4.00 p.m. on all working days with no interval in between. If the Contractor wishes to carry out the work beyond normal working hours and or on holidays, he should get specific approval from the Engineer-in-Charge for the same. Necessary supervision will be arranged by the department and the expenditure to be incurred in this connection will be borne by the department.

## **11. Method of Execution**

The contractor shall clearly indicate in their tender the method proposed by them for executing the various items of works. During the actual execution of the works if modifications or changes in the method of execution of work are found necessary the contractor shall obtain approval from the Engineer-in-charge of work for such modifications or changes in the method. No claim from the contractor for additional payment shall be entertained by the department on the above account.

The detailed list of equipment/machineries/tools & plants proposed to be mobilized for the deployment in the work as furnished as per **Annexure-7** of Section- I and method of execution furnished under clause above, are considered only for the technical appreciation of the proposal of the contractors and it shall not relieve the contractor of his responsibility of executing the work with the quality specified in the tender and any discrepancy occurs, the construction procedures detailed/specified in the tender will prevail. In case, any additional equipment are required to be mobilized than those listed in the tender for deployment in the work, it shall be arranged and the work executed as per the tender specifications without any extra cost to the Department

## **12. Alterations and Additions**

The Employer shall have power and authority from time to time and at all times to make amendments or additions or alternations or changes in the scope of the work, and specifications, drawings and bill of quantities and give such further instructions and directions as may appear to the Employer necessary and proper for the guidance of the Contractor and the good and efficient execution of the works and the contractor shall receive, obey and be bound by the same according to the true intent and meaning thereof as if the same had been mentioned or referred to in the scope of the work, specifications, Bill of Quantities and Schedules and drawings. The Employer may also vary or alter the lines, levels or positions of any of the works contemplated or may order any of the works contemplated thereby to be omitted, with or without the substitution of any other works in lieu thereof, or may order any work or any portion of works executed or partially executed to be removed, changed or altered, if required, and may order that other work shall be substituted in lieu thereof and any difference in the cost occasioned by any such diminution or alteration so ordered and directed shall be added to or deducted from the Contract Price based on rates available in the contract or where the rates are not specified a suitable rate backed up by rate analysis shall be submitted by the contractor and agreed upon between the contractor and the Employer. In the event of disagreement, the Employer shall fix such rates or prices as shall in their opinion, be reasonable and proper having regard to the circumstances. The contractor shall give to the Employer before the tenth day of every month, a statement in writing of any extra work which he may have performed during the preceding month, failing which any claim for which he may afterwards make for payment on account of any such extra work will not be allowed.

## SECTION VI

### CONTRACT DATA

*[To be filled up before issuing tender document as applicable for each tender]*

**Items marked “N/A” do not apply in this Contract.**

Sl. No.	Description				Reference Clause No. In GCC
1.	The Schedule of Key personnel				(35)
	Qualification of Staff	No.	Min. Experience (Years)	Rate of recovery In case of non compliance	
2	The Employer is:				(1)
	THE BOARD OF MAJOR PORT AUTHORITY FOR COCHIN PORT, <b>Cochin -9</b>				
	Name of Authorized Representative:				
	Name: <b>Shri. B. Kasiviswanathan, IRSME The Chairperson Cochin Port Authority, Cochin -682 009</b>				
3	The Engineer is				
	Name: <b>Shri. A. Jayasimha</b>				
	<b>Chief Mechanical Engineer Cochin Port Authority, Cochin-9</b>				
	Name of Nominee is :				
	Name: will be nominated later				

Sl. No.	Description	Reference ClauseNo. in GCC
4	Name of Contract :-“ <b>Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of CoPA, including 2 years guarantee and 5 years comprehensive AMC thereafter</b> ” <b>GeM Bid no:</b>	
5	4 copies of Contract Agreement shall be furnished by the Contractor	[26]
6	Tender document and other data are available at Cochin Port web site, CPPP and GeM portal	
7	The Intended completion Date for the whole of the Work is 90 days from date of issue of LoA with the following milestones:	(35)
8	Mile stone dates:	
	<table><tr><td><b>Physical works to be completed</b></td><td><b>90 days from the date of Issue of LoA</b></td></tr></table>	
<b>Physical works to be completed</b>	<b>90 days from the date of Issue of LoA</b>	
9	The following shall form part of the Contract Document:. (1) Agreement (2) Letter of Acceptance and notice to proceed with works (3) Correspondence exchanged after the opening of the Bid and before the issue of Letter of Acceptance by which the Condition of Contract are amended, varied or modified in any way by mutual consent (to be enumerated). (4) Contractor’s Bid (5) Contract Data (6) Conditions of Contract like ITT, GCC, Scope of work, Technical Specifications, General Instructions etc. (7) Bill of quantities and (8) Any other documents listed in the tender as forming part of the Contract	(2.3)

Sl. No.	Description	Reference ClauseNo. in GCC
10	The Contractor shall submit a Program for the Works within 7 days from the date of receipt of the Letter of Acceptance from the Employer.	(6.2)
11	<b>The site possession date</b> The site will be handed over within 7 <b>days</b> after issue of LoA and the site is free from encumbrances.	(37)
12	The start date shall be 7 <b>days</b> from the date of issue of the Letter of Acceptance(LoA)	(1)
13	The site is located at W/Island, Cochin 682009.	
14	The Defect Liability Period/ guarantee period is twenty four (24) months <b>from the date of completion of the work and acceptance by Employer.</b>	(34)
15	The minimum insurance cover for physical property, injury and death is <b>Rs.10 lakhs (Rupees Ten Lakh only)</b> per occurrence with the number of occurrences unlimited. After each occurrence Contractor will pay additional premium necessary to make insurance valid always.	<b>(15)</b>

## SECTION VII

## BILL OF QUANTITIES

## BILL OF QUANTITIES FOR PROVIDING CCTV AT VARIOUS LOCATIONS OF CoPA

No.	Description of Item	Quantity		RATE(Rs.)	AMOUNT(Rs.)
I	SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF CCTV CAMERAS AND ACCESSORIES AS PER TECHNICAL SPECIFICATIONS IN TENDER DOCUMENT				
1	2 MP Outdoor type PTZ Camera	1	No.		
2	2 MP Outdoor ANPR / Zoom type box Camera	9	No.		
3	5 MP Out Door Box/Bullet Motorized VF IR Camera	24	No.		
4	6 MP Indoor type Fish eye Camera	1	No.		
5	GI pole 3 inch dia. 5 metre long with Foundation	18	No.		
6	Outdoor wall mount Rack/ IP 65 BOX with fan Network Accessories with Required Glands	12	No.		
7	6 U indoor Rack With Tray , PDU and Cable Manager and Required Accessories	7	No.		
8	POE Switch 8 port poe+ With 2 sf port With power budget of 55W	11	No.		
9	POE Switch 4 port poe+ With 1 sf port With power budget of 55W	16	No.		
10	SFP Module With Patch cord	86	No.		
11	Polycarbonate junction box	3	No.		
12	Network Surge Protector	68	No.		
13	Lighting Arrestor	24	No.		
14	Earthing Strip with Required Links and Earthing Compound	24	No.		
15	MCB and Other Accessories	28	No.		
16	6 Core SM Fiber Cable Armoured – 6 core Indoor/ Outside Cable - Corrugated Steel tape Armoured, Loose-tube, Dry tube, FRLSZH Jacket, 9/125 SM OS2 along with Factory acceptance test and including all required accessories such as fully loaded fibre panel and patch cords to complete the structured cabling	9750	Mtrs.		
17	HDPE pipe 25/32 mm	5455	Mtrs.		
18	CAT 6 Cable Outdoor - Cat6 U/UTP Double Jacketed Outdoor Cable with PE and LSZH jacket including all	1010	Mtrs.		

	required accessories such as patch panel, reusable IDC connector, patch cords to complete the structured cabling				
19	800 VA UPS With Inbuilt Battery	19	No.		
20	PVC Conduit 25 mm ISI Medium	300	Mtrs.		
21	Power Cable 3 core 1.5 sq mm	365	Mtrs.		
22	UPS of adequate capacity with Minimum of 2000 VA UPS With minimum Battery back up of one Hour.	1	No.		
23	Pole Structure with Foundation which could stand the conditions of the installation area(COT&NTB)	2	No.		
24	P2P link for the wireless communication	3	Nos.		
25	Structure and earthing for the wireless communication	3	Nos.		
26	Pendant for Fish Eye Camera	1	No.		
27	Reposition of existing cameras -CFS	10	Nos.		
28	<b>Rack Mount Recorder consisting of following :</b>				
28.a	Video Management Server as per technical specification	1	LS		
28.b	Central Video/ database Management Server as per technical specification	1	No.		
28.c	Camera Recording Server/NVR as per technical specification	2	Nos.		
29	18 TB HDD	18	No.		
30	High End Work station	1	No		
31	24 port POE + 4 SFP switch	1	No.		
32	24 port GB switch with 4 port SFP Enterprise	1	No.		
33	24 port SFP Switch Enterprise	1	No.		
34	43 inch Display Professional 24X7 Operational	2	Nos.		
35	32 u rack With all accessories	1	No.		
36	PTZ Joy Stick Controller	1	No.		
	<b>TOTAL SUPPLY CHARGES</b>				



II	TOTAL ERECTION CHARGES FOR ENTIRE LOCATION				
1	Splicing Charges	200	Nos.		
2	Soft Soil Digging & resurfacing	500	Mtrs.		
3	Tar Cutting &resurfacing	530	Mtrs.		
4	Conduit laying & pulling all over the wall	1000	Mtrs.		
5	Installation, Testing, Commissioning & Training charges	1	LS		
	TOTAL ERECTION CHARGES FOR ENTIRE LOCATION				
	TOTAL COST FOR SITC OF CCTV CAMERAS (SUPPLY+ERECTION)				
	Rates for the Comprehensive Annual Maintenance Contract of the 35 nos. of IP CCTV security cameras & accessories for five years after 2-year guarantee period	3 rd year (x0.8163)			
		4 th year (x0.7629)			
		5 th year (x0.7130)			
		6 th year (x0.6663)			
		7 th year (x0.6627)			
	TOTAL COST FOR 5 YEARS CAMC AFTER 2 YEARS' GUARANTEE PERIOD				

\*Evaluation of CAMC for 5 years will be carried out at the Discounted Factor of 7%.

***Annexure-1***

**LETTER OF SUBMISSION-COVERINGLETTER**  
**(ON THE LETTER HEAD OF THE BIDDER)**

Date:

To

The Chief Mechanical Engineer,  
Cochin Port Authority.

Sir,

Sub :Tender for” **Supply installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of CoPA, including 2 years guarantee and 5 years comprehensive AMC thereafter”**

Being duly authorized to represent and act on behalf of.....

(Hereinafter referred to as “the Bidder”) and having reviewed and fully understood all of the requirements of the bid document and information provided, the undersigned hereby apply for the project referred above.

We are submitting our Bid enclosing the following, with the details as per the requirements of the Bid Document, for your evaluation.

1. EMD/ MSME Udyam registration certificate along with QR code
2. Power of Attorney in favour of signatory/s to the Tender, duly authenticated by Notary
3. Organization Details
4. Proof of experience in support of MQC
5. Proof that the tenderer is an Original Equipment Manufacturer (OEM) or authorized dealer
6. Financial documents in support of MQC1
7. Copies of PAN, GST Registration and Bank Information for e-payment.
8. Declarations

Signature

(AuthorizedSignatory)

**Annexure- 2**

**PROFORMA OF POWER-OF-ATTORNEY/LETTER OF AUTHORITY**

*(To be submitted on Non-judicial Stamp Paper of appropriate value)*

To

The Chief Mechanical Engineer,  
Cochin Port Authority,  
Cochin-682009,  
Kerala, India.

Dear Sir,

We\_\_\_\_\_ do  
hereby confirm that Mr./Ms./Messrs\_\_\_\_\_ **[INSERT  
NAMEANDADDRESS]**, whose signature is given below, is/are authorized to represent  
us to bid, negotiate and conclude the on our behalf with you against Tender for “**Supply  
installation, testing and commissioning of 35 nos. of IP CCTV security cameras at  
various locations of CoPA, including 2 years guarantee and 5 years comprehensive  
AMC thereafter**”.

We confirm that we shall be bound by all and whatsoever our said agents shall commit.

Signature of the authorized person :

Name & Designation:

Yours faithfully,

Signature, name and seal of the certifying authority

***Annexure-3***

**ORGANIZATIONDETAILS**

CONTRACT No.:

NAME OF APPLICANT:

1. Name of the Owner:
2. Address:  
Telephone No./Fax No.  
e-mail address
3. Description of Applicant  
(for e.g. A or B grade electrical contractor etc.)
4. Registration and Classification  
of Contractors
5. Name and address of bankers
6. Number of years of  
experience as a contractor:-

In own Country:

Internationally:

7. Name and Address of partners or  
associated companies to be involved  
in the project and whether Parent/  
Subsidiary/other
8. Name and address of any associates  
knowledgeable in the procedures of  
customs, immigration and local experience  
in various aspect of the project etc.

9. Name and address of the companies/  
Sub-contractors who will be involved  
in the execution of works, namely:
10. Name and address of companies who  
will be involved in the supply of  
bought out items
12. Attach organization chart showing the structure  
of the company including names of Directors/  
Key Personnel at Head Office who would be  
responsible for the project and a separate chart  
showing proposed Site Construction  
Organisation.

Signature  
(Authorised  
Signatory)

Tenderer shall furnish Details of “eligibility works experience” as per Clause 12 of Minimum Eligible Criteria (MEC) of Instruction to Tenderer and certificates in the following format (Client Certificates/work completion certificates or any other documentary evidences with respect to the eligibility work)

#### ELIGIBLE ASSIGNMENT DETAILS FOR MQC

Assignment Number:

<b>Description</b>	<b>Bidder to fill up the details here</b>
Name and Address of the Client	
Title of the Eligible Assignment	
Date of completion of the Eligible Assignment	
Project Completion Cost	
Reference No. of the enclosed Client Completion Certificate/Documentary Evidence for having successfully completed the Eligible assignment	
Name, telephone no., telefax no. and email address of the client's representative	
Description and Scope of Work	

Instructions:

- i) Bidders are expected to provide information in respect of Eligible Assignments in this Section. The assignments cited must comply with the criteria specified Clause No. 12(a) Minimum eligibility of the Instructions to Tenderers”.
- ii) A separate sheet should be filled for each of the eligible assignments.
- iii) The details are to be supplemented by documentary proof from the respective client /owner for having carried out such assignment duly certified by clients/ owner.
- iv) The works indicated in this Annexure- 4a&4b will be only being considered for evaluation. Mere submission of work completion certificate will not be considered as Eligible Assignments
- v) Original or notary certified copy of completion certificates of each work issued by the owner/ the responsible officers of the owner under whom he has executed such contracts shall be attached. The certificate shall invariably contain the following among other things.

- a) Details of work involved specifying the nature of work
  - b) The completion cost of the work and
  - c) Date of commencement; and
  - d) Date of completion of the work.
- vi) If the experience in similar works is as a member of joint venture, notary attested copy of joint venture agreement in this respect shall be attached.
  - vii) If the experience in similar works is as a subcontractor, notary attested copy(s) of approval issued by the Employer(s) authorizing as a sub-contractor; in proof of the claim of the tenderer as a sub-contractor shall be attached.
  - viii) If the experience in similar work is in works executed in private sectors/ organizations, the Form 26AS along with notary attested copy(s) work order and completion certificate.
  - ix) The tenderer is also obliged to produce the original of the certified copy(s) on request by the department.

Signature (Authorised  
Signatory)

**Annexure– 4b****DETAILS OF PAST EXPERIENCE OF CONTRACTORS FOR  
SIMILAR WORKS**

Sl. No.	Name & Location of Project	Owner's Complete address including Tele Fax No. with contact Person	Value of Contract	Duration of Contract			Details of work including major items of work involved	Reference No. & Date of letter of intent & completion certificate enclosed
				Commencement date	Scheduled completion date	Actual completion date		
1	2	3	4	5	6	7	8	9

**Note:** Bidder to enclose completion certificate issued by owner, certified by a Notary public or equivalent certifying authority.

**SIGNATURE OF TENDERER**



***Annexure- 5***

**FINANCIAL CAPABILITY**

(A) Average Annual Turnover of the Bidder

<b>Turnover(Rs.)</b>			
<b>Year1</b>	<b>Year2</b>	<b>Year3</b>	<b>Average</b>
<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>	

**Instructions:**

The Bidder shall submit either of the following along with the bid.

(I) A statement duly certified by the Chartered Accountant showing the Average Annual Financial Turnover during the last three financial years

OR

(II) Annual Accounts duly certified by a Chartered Accountant.

Signature

**Certified by Chartered Accountant**  
(with UDIN (Unique Document Identification Number)  
while certification with QR code if available.)

(Authorised Signatory)

**Annexure - 6**

**DETAILS OF PROPOSED APPROACH & METHODOLOGY**

Bidder shall furnish a detailed method statement (Technical Note) for carrying out of the works, along with a programme showing sequence of operation and the time frame for various segments of works.

Signature

(Authorised Signatory)

***Annexure-7***

**DECLARATION**

We M/s(*Name & address of the bidder*) hereby declare that:-

1. No conditions are incorporated in the financial bid. In case any conditions are specified in the financial bid, the tender will be rejected summarily without making any further reference to the bidder.
2. We have not made any payment or illegal gratification to any persons/ authority connected with the bid process so as to influence the bid process and have not committed any offence under PC Act in connection with the bid.
3. We disclose with that we have \*made / not made payments or propose to be made to any intermediaries (agents) etc in connection with the bid.
4. We do hereby confirm that no changes have been made in the tender document downloaded and submitted by us for the above bid. Port Tender document will be treated as authentic tender and if any discrepancy is noticed at any stage between the Port's tender document and the one submitted by the tenderer, the Port's document shall prevail.

Signature  
(Authorized Signatory)

***\*Note: Delete whichever is not applicable.***

*Annexure-8*

**DETAILS OF THE PARTY OPTING FOR REFUND OF EMD THROUGH E-PAYMENT SYSTEM**

Name of the Party :

Bank A/cNo :

Account type :(Savings/Current/Overdraft)

Bank Name :

Branch :

IFSC Code Number : (11digitcode)

Centre(Location) :

FAX No. :

E-Mail ID :(For forwarding information of remittance)

Mobile No :

Signature  
(Authorised Signatory)

***Annexure-9***

***FORMAT FOR FURNISHING BANK INFORMATION FOR e-PAYMENT***

1	Name and full address of the beneficiary	
2	Credit Account No. (Should be full 14 digit)	
3	Account Type (SB or CA or OD)	
	Name of the Bank	
5	Branch (Full address with telephone No.)	
6	MICR code (Should be 9 digit)	
7	Telephone/Mobile/Fax No. of the beneficiary	<div>Telephone:</div> <div>Mobile :</div> <div>Fax :</div>
8	Cancelled Cheque	

Signature with seal

(Authorised Signatory)

## Annexure-10

### PROFORMA OF PRE CONTRACT INTEGRITY PACT

(To be signed on Plain Paper)

(To be submitted as part of Technical bid)

Tender No.....;

Tender Title: .....

This Agreement (hereinafter called the Integrity Pact) is made on \_\_\_\_ day of the month of \_\_\_\_ 2024 at \_\_\_\_\_, India BETWEEN THE BOARD OF MAJOR PORT AUTHORITY FOR COCHIN PORT commonly known as COCHIN PORT AUTHORITY, a Body Corporate under the Major Port Authorities Act, 2021, with its Administrative Office at Willingdon Island, Cochin-682009, represented by its Chief Mechanical Engineer, Sri ....., S/o Sri....., aged ...years residing at .....(address).....(hereinafter called the “The Principal”, which expression shall mean and include unless the context otherwise requires, his successors in office and assigns) of the First Part AND M/s. \_\_\_\_\_ represented by Shri.....Chief Executive Officer (hereinafter called the "BIDDER" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

#### PREAMBLE

“The Principal” intends to award, under laid down organizational procedures, contract/ s for \_\_\_\_\_, “The Principal” values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/ transparency in its relations with its Bidder(s) and/ or Contractor(s). In order to achieve these goals, the Principal shall appoint Independent External Monitors (IEMs) who shall monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

#### Section 1 -Commitments of the “The Principal”

(1) “The Principal” commits itself to take all measures necessary to prevent corruption and to observe the following principles:

- a. No employee of the Principal, personally or through family members, shall in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
- b. The Principal shall, during the tender process, treat all Bidder(s) with equity and reason. The Principal shall in particular, before and during the tender process, provide to all Bidder(s) the same information and shall not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
- c. The Principal shall exclude from the process all known prejudiced persons.

(2) If the Principal obtains information on the conduct of any of its employees, which is a criminal offence under the IPC/ PC Act, or if there be a substantive suspicion in this regard, the Principal shall inform the Chief Vigilance Officer and in addition, can initiate disciplinary actions.

## **Section 2 -Commitments of the “Bidder/ Contractor”**

(1) The “Bidder/ Contractor” commit themselves to take all measures necessary to prevent corruption. The „Bidder/ Contractor“ commit themselves to observe the following principles during participation in the tender process and during the contract execution.

- a. The “Bidder/ Contractor” shall not, directly or through any other person or firm, offer, promise, or give to any of the Principal’s employees involved in the tender process or the execution of the contract, or to any third person any material or other benefit which he is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
  - b. The ‘Bidder/ Contractor’ shall not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the tender process.
  - c. The ‘Bidder/ Contractor’ shall not commit any offence under the relevant IPC/ PC Act; further, the ‘Bidder/ Contractor’ shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals, and business details, including information contained or transmitted electronically.
  - d. The ‘Bidder/ Contractor’ of foreign origin shall disclose the name and address of the Agents/ representatives in India if any. Similarly, the Bidder/ Contractors of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details as mentioned in the “Guidelines on Indian Agents of Foreign Suppliers” shall be disclosed by the Bidder/ Contractor. Further, as mentioned in the Guidelines, all the payments made to the Indian agent/ representative have to be in Indian Rupees only. Copy of the “Guidelines on Indian Agents of Foreign Suppliers” is placed in Appendix to this agreement.
  - e. The ‘Bidder/ Contractor’ shall, when presenting their bid, disclose any and all payments made, is committed to, or intends to make to agents, brokers, or any other intermediaries in connection with the award of the contract.
  - f. Bidder/ Contractor who have signed the Integrity Pact shall not approach the Courts while representing the matter to IEMs and shall wait for their decision in the matter.
- (2) The ‘Bidder/ Contractor’ shall not instigate third persons to commit offences outlined above or be an accessory to such offences.

## **Section 3 -Disqualification from tender process and exclusion from future contracts**

If the ‘Bidder/ Contractor’, before award or during execution, has committed a transgression through a violation of Section 2, above or in any other form such as to put their reliability or credibility in question, the Principal is entitled to disqualify the ‘Bidder/ Contractor’ from the tender process or take action as per the procedure mentioned in the “Guidelines on Banning of business dealings”.

## **Section 4 -Compensation for Damages**

(1) If the Principal has disqualified the „Bidder/ Contractor“ from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from „Bidder/ Contractor“ the damages equivalent to Earnest Money Deposit/ Bid Security.

(2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the contractor liquidated damages of the contract value or the amount equivalent to Performance Bank Guarantee.

## **Section 5 -Previous transgression**

(1) Bidder declares that no previous transgressions occurred in the last three years with any other Company in any country conforming to the anti-corruption approach or with any Public Sector Enterprise in India that could justify his exclusion from the tender process.

(2) If Bidder makes an incorrect statement on this subject, he can be disqualified from the tender process, or action can be taken as per the procedure mentioned in “Guidelines on Banning of business dealings”.

## **Section 6 -Equal treatment of all Bidders/ Contractors/ Subcontractors**

(1)In the case of Sub-contracting, the Principal Contractor shall take responsibility for the adoption of the Integrity Pact by the Sub-contractor.

(2)The Principal shall enter into agreements with identical conditions as this one with all Bidders and Contractors.

(3)The Principal shall disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

## **Section 7 -Criminal charges against violating Bidder(s)/ Contractor(s)/ Subcontractor(s)**

If the Principal obtains knowledge of the conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal shall inform the same to the Chief Vigilance Officer.

## **Section 8 -Independent External Monitor**

(1) The BUYER/ EMPLOYER has appointed the following panel of Independent Monitors (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission:

1. Shri. M.J. Joseph, ICAS (Retd.)

37, Da Costa Square, 3rd cross, Cooke Town, Bangalore -560084

Email: joseph.iem@cochinport.gov.in

3 Shri. Punati Sridhar, IFoS (Retd.)

8C, Block-4, 14-C Cross, MCHS Colony,  
HSR 6th Sector, Bangalore-560 102

E-mail id: [sridhar.iem@cochinport.gov.in](mailto:sridhar.iem@cochinport.gov.in)



The task of the Monitor is to review independently and objectively whether and to what extent the parties comply with the obligations under this agreement.

- (2) The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. The Monitor would have access to all Contract documents whenever required. It shall be obligatory for him/ her to treat the information and documents of the Bidders/ Contractors as confidential. He/ she reports to the Head of the Procuring Organization.
- (3) The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal, including that provided by the contractor. The contractor shall also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to their project documentation. The same is applicable to Sub-contractors project documentation. The same is applicable to Sub-contractors.
- (4) The Monitor is under contractual obligation to treat the information and documents of the Bidder/ Contractor(s)/ Sub-contractor(s) with confidentiality. The Monitor has also signed declarations on „Non-Disclosure of Confidential Information“ and of „Absence of Conflict of Interest“. In case of any conflict of interest arising at a later date, the IEM shall inform the Head of the Procuring Organization and rescue himself/ herself from that case.
- (5) The Principal shall provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the contractor. The parties offer the Monitor the option to participate in such meetings.
- (6) As soon as the Monitor notices, or believes to have noticed, a violation of this agreement, he shall so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can, in this regard, submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action, or tolerate action.
- (7) The Monitor shall submit a written report to the Head of the Procuring Organization within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
- (8) If the Monitor has reported to Head of the Procuring Organization, a substantiated suspicion of an offence under relevant IPC/ PC Act, and Head of the Procuring Organization has not, within the reasonable time, taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
- (9) The word ‘Monitor’ would include both singular and plural.
- (10) In the event of any dispute between the Management and the Contractor, incase, both the parties are agreeable, dispute may be settled through mediation before the panel of IEMs in a time bound manner. If required, the organizations may adopt any mediation rules for this purpose.
- (11) The fees/ expenses on dispute resolution shall be equally shared by both the parties.
- (12) A person signing the IP shall not approach the Courts while representing the matters to IEMs and he/ she will await their decision in the matter.

- (13) In case of Joint Ventures all the partners of the joint venture should sign the Integrity Pact. In case of sub-contracting, the Principal contractor shall take the responsibility of the adoption of IP by the sub –contractor. It is to be ensured that all sub-contractors also sign the IP.

### **Section 9 -Pact Duration**

This Pact begins when both parties have legally signed it. It expires for the contractor 12 months after the last payment under the contract and for all other Bidders 6 months after the contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings. If any claim is made/ lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above unless it is discharged/ determined by the Head of the Procuring Organization.

### **Section 10 -Other provisions**

- (1) This agreement is subject to Indian Law. The place of performance and jurisdiction is the Registered Office of the Principal, i.e., New Delhi.
- (2) Changes and supplements, as well as termination notices, need to be made in writing. Side agreements have not been made.
- (3) If the contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- (4) Should one or several provisions of this agreement turnout to be invalid, the remainder of this agreement remains valid. In this case, the parties shall strive to come to an agreement with their original intentions.
- (5) Issues like Warranty/ Guarantee etc., shall be outside the purview of IEMs.
- (6) In the event of any contradiction between the Integrity Pact and its Appendix, the Clause in the Integrity Pact shall prevail.

For and on behalf of the Principal  
(Name of the Officer and Designation)  
(Office Seal)

For and on behalf of 'Bidder/ Contractor'  
(Name of the Officer and Designation)  
(Office Seal)

For and on behalf of the Principal  
Place Date

Witness 1: (Name & Address)

Witness2 : (Name & Address)

**Annexure-11**

**PROFORMA OF IRREVOCABLE BANK GUARANTEE FOR EARNEST MONEY DEPOSIT**

*(To be submitted on Non-judicial Stamp Paper of appropriate value)*

No. \_\_\_\_\_ Dated \_\_\_\_\_.

This Deed of Guarantee executed at \_\_\_\_\_ by \_\_\_\_\_ (Name of Bank) having its Head/Registered office at \_\_\_\_\_ (hereinafter referred to as “the Guarantor”) which expression shall unless it be repugnant to the subject or context thereof include its executors, administrators, successors and assigns;

**In favour of**

The Cochin Port Authority (hereinafter called “the EMPLOYER”), having its office at Willingdon Island, Cochin – 682 009, which expression shall unless it be repugnant to the subject or context thereof include its executors, administrators, successors and assigns;

Whereas M/s. \_\_\_\_\_, a Company registered under the provisions of \_\_\_\_\_ having its registered office at \_\_\_\_\_ (hereinafter called “the Bidder”) which expression shall unless it be repugnant to the subject or context thereof include its executors, administrators, successors and assigns, has bid for the work (hereinafter referred to as “the Work”).

Whereas in terms of the Tender Notice dated \_\_\_\_\_ (hereinafter referred to as “Tender Document”) the Bidder is required to furnish to the Port Authority an unconditional and irrevocable Bank Guarantee for an amount of Rs ..... (Rupees ..... only) as Earnest Money Deposit (EMD) and the Guarantor has at the request of the Bidder agreed to provide such Guarantee being these presents:

Now this deed witnesseth that in consideration of the premises, We, \_\_\_\_\_

\_\_\_\_\_ Bank hereby declare, undertake and agree as follows:

We as primary obligor shall, without demur, pay to the Port Authority an amount not exceeding Rs. .... (Rupees ..... only), within 5 days of receipt of a written demand from the Port Authority stating that the EMD has been forfeited in terms of Clause 15.2 of the Instruction of Bidders of Tender Document. Any such demand made on us by the Port Authority shall be conclusive and absolute as regards the forfeiture of the EMD and the amount due and payable under this Guarantee.

- a) The above payment shall be made by us without any reference to the Bidder or any other person and irrespective of whether the claim of the Port Authority is disputed by the Bidder or not.
- b) This Guarantee shall remain in full force for a period of 148 days from (date)\*\_\_ or for such extended period as may be mutually agreed between the Port Authority and the Bidder and shall continue to be enforceable till all amounts which are demanded by the Port Authority under this Guarantee are paid.
- c) In order to give full effect to this Guarantee, the EMPLOYER shall be entitled to treat the Guarantor as the principal debtor and the obligations of the Guarantor shall not be affected by any variations in the terms and conditions of the Tender Document or other documents or by extension of time of performance of any obligations by the Bidder or any postponement for any time of the powers exercisable by the EMPLOYER against the Bidder or forbear or enforce any of the terms and conditions relating to non-compliance of the Tender Document by the Bidder and we shall not be relieved from our obligations by reason of any variation or extension being granted to the Bidder or forbearance or omission on the part of the EMPLOYER or any indulgence by the EMPLOYER to the Bidder to give such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.
- d) This Guarantee shall be irrevocable and shall remain in full force and effect until all our obligations under this Guarantee are duly discharged.
- e) The Guarantor has power to issue this Guarantee and the undersigned is duly authorised to execute this Guarantee pursuant to the power granted under——  
In Witness where of the Guarantor has set its hands here unto on the day, month and year first hereinabove written.

Signed and Delivered by \_\_\_\_\_ Bank by the hand of Shri \_\_\_\_\_ its \_\_\_\_\_  
\_\_\_\_\_ and authorized official

\*Fill in the scheduled date of submission of bid.

**Annexure A**

**PROFORMA OF BANK GUARANTEE FOR PERFORMANCE GUARANTEE/ SECURITY DEPOSIT**

*(To be executed on non-judicial Stamp Paper of Rs.200/-)*

*[The bank, as requested by the successful Tenderer, shall fill in this form in accordance with the instructions indicated]*

In consideration of THE BOARD OF MAJOR PORT AUTHORITY FOR COCHIN PORT commonly known as COCHIN PORT AUTHORITY, a Body Corporate under the Major Port Authorities Act, 2021, with its Administrative Office at Willingdon Island, Cochin-682009, having PAN Card No. AAALC1134F (hereinafter called "The Board" which expression shall unless excluded by or repugnant to the context or meaning thereof be deemed to include the Board of Cochin Port Authority, its successors and assigns) having agreed to exempt ----- (Name of the Contractor/s) (hereinafter called the "Contractor") from the demand under the terms and conditions of the Contract, vide \_\_\_\_\_ 's letter No. \_\_\_\_\_ (Name of the Department) date \_\_\_\_\_ made between the Contractors and the Board for execution of \_\_\_\_\_ covered under Tender No. \_\_\_\_\_ dated \_\_\_\_\_ (hereinafter called "the said contract") for the payment of Security Deposit in cash or Lodgement of Government Promissory Loan Notes for the due fulfillment by the said Contractors of the terms and conditions of the said Contract, on production of a Bank Guarantee for Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) only we, the (Name of the Bank and Address) \_\_\_\_\_ (hereinafter referred to as "the Bank") at the request of the Contractors do hereby undertake to pay to the Board an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) only against any loss or damage caused to or suffered by or which would be caused to or suffered by the Board by reason of any breach by the Contractors of any of the terms and conditions of the said contract.

2. We, (Name of Bank), (Name of Branch), do hereby undertake to pay the amounts due and payable under this guarantee without any demur merely on a demand from the Board stating that the amount claimed is due by way of loss or damage caused to or which would be caused to or suffered by the Board by reason of any breach by the Contractors of any of the terms and conditions of the said contract or by reason of the Contractors failure to perform the said contract. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to any amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) only.

3. We, \_\_\_\_\_ (Name of Bank and Branch) \_\_\_\_\_, undertake to pay to the Board any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.

4. We, \_\_\_\_\_ (Name of Bank and Branch) further agree with the Board that the guarantee herein contained shall remain in full force and effect during the period that would be taken for performance of the said contract and that it shall continue to be enforceable till all the dues of the Board under or by virtue of the said contract have been fully paid and its claims satisfied or discharged or till the (Name of the user department) of the said certifies that

the terms and conditions of the said contract have been fully and properly carried out by the said Contractors and accordingly discharge this guarantee. PROVIDED HOWEVER that the Bank shall be the request of the Board but at the cost of the Contractors, renew or extend this guarantee for such further period or periods as the Board may require from time to time.

5. We, (Name of Bank and Branch) further agree with the Board that the Board shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said contract or to extend the time of performance by the said contract or to extend the time of performance by the said Contractors from time to time or to postpone for any time or from time to time any of the powers exercisable by the Board against the said Contractors and to forbear or enforce any of the terms and conditions relating to the said contract and we shall not be relieved from our liability by reason of any such variation or extensions being granted to be Contractors or for any forbearance, act or omission on the part of the Board or any indulgence shown by the Board to the Contractors or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

7. It is also hereby agreed that the Courts in *[insert city]* would have exclusive jurisdiction in respect of claims, if any, under this Guarantee.

8. We, \_\_\_\_\_ Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Board in writing.

9. Notwithstanding anything contained herein:

a) Our liability under this Bank Guarantee shall not exceed Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only);

b) this Bank Guarantee shall be valid upto \_\_\_\_ \* \_\_\_\_\_; and

c) we are liable to pay the guarantee amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before \_\_\_\_\_ (date of expiry of Guarantee)."

Date \_\_\_\_\_ day of \_\_\_\_\_ 2024

For (Name of Bank)

(Name)

Signature

**FORM OF AGREEMENT**  
**TO BE EXECUTED ON KERALA STAMP PAPER (Rs.200/-)**

AGREEMENT No. .... OF.....

Sub: **“Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of CoPA, including 2 years guarantee and 5 years comprehensive AMC thereafter”**

THIS agreement is made at Cochin on ..... day of ----- Two thousand and Twenty four (..... - .....-2024) *between* THE BOARD OF MAJOR PORT AUTHORITY FOR COCHIN PORT commonly known as COCHIN PORT AUTHORITY, a Body Corporate under the Major Port Authorities Act, 2021, with its Administrative Office at Willingdon Island, Cochin-682009, having PAN Card No. AAALC1134F, represented by its Chief Mechanical Engineer, Sri. .... (hereinafter referred to as “The Employer” which expression shall include their successors, assignees and administrators in the office) of the one part AND M/s. .... represented by Sri/Smt.. ----- aged -----years, son/daughter of Sri. ----- residing at ----- (House name and No.) ----- District ----- State ----- (hereinafter referred to as “The Contractor” which expression shall include their successors, assignees and administrators) of the other part.

Whereas the “Employer” had called for the tenders for the “Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of CoPA, including 2 years guarantee and 5 years comprehensive AMC thereafter” and the Contractor had submitted a tender for the same giving the rates subject to the terms and conditions etc.

And whereas the said tender of the Contractor has been accepted by the Employer and Letter of Acceptance (LoA) ~~Purchase Order~~ No..... dated..... has been issued to the Contractor accepting their tender for the work of **“Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of CoPA, including 2 years guarantee”** subject to Instructions to Tenderer, General Conditions of Contract, Scope of Supply & Technical Specification and such other Contract Documents. And as per one of the terms of the above LoA, an agreement has to be executed between the Contractor and the employer.

**NOW THESE PRESENTS WITNESES AS FOLLOWS:**

The Contractor hereby agrees for the **“Supply, installation, testing and commissioning of 35 nos. of IP CCTV security cameras at various locations of CoPA, including 2 years guarantee”** as described in the schedule, its annexure etc. at the rates shown there under subject to INSTRUCTIONS TO TENDERER, GENERAL CONDITIONS OF CONTRACT, Scope of supply & Technical Specification and such other conditions, all here unto annexed within 90 (Ninety) days from the date of receipt of LoA or in default to forfeit and pay to the employer the sum of money mentioned in the said conditions.

The Contractor has furnished a Bank Guarantee for Rs.....(Rupees ----- only) vide Bank Guarantee No..... dated..... from..... Bank in lieu of Security Deposit for the due and proper fulfillment of the contract encashable in Cochin. The supplier further agrees that the aforesaid Bank Guarantee will be kept valid until two months beyond the expiry of the Guarantee period. The supplier also agrees that the Bank Guarantee furnished in lieu of Security Deposit for the due and proper fulfillment of the contract will be suitably enhanced so as to cover 10% of cost of any additional items/works that may be required for the proper completion of the contract or otherwise the employer can deduct such additional amounts towards Security Deposit from the supplier's bills.

The following documents shall be deemed to form and be read and construed as part of this agreement viz:

*(list of relevant documents- will be furnished by Port)*

The Conditions given in the LoA dated..... shall over-ride the general conditions given in the tender document, wherever they differ. Any of the counter terms and conditions of the Contractor shall not be taken as terms and conditions of this contract/ agreement unless the Trustees in writing specifically agree to it.

IN WITNESS WHEREOF THE CONTRACTOR hereunto set his hand and seal And on behalf of the Board of Major Port Authority for the Port of Cochin, the Chief Mechanical Engineer has set his hand and seal and common seal of Trustees as has been hereunto affixed the day and year first written above.

Signed, sealed and delivered by Shri.....of M/s .....

CONTRACTOR

-----

(COMMON SEAL OF THE FIRM)

Signed and affixed seal in the presence of:

1. Signature with address:

2. Signature with address:

Signed, sealed and delivered by the Chief Mechanical Engineer,  
Cochin Port Authority  
On behalf of EMPLOYER  
Board of Major Port Authority for the Port of Cochin.

Signed and affixed the common Seal of Board of  
Major Port Authority for the Port of Cochin in the presence of

1)

2)



**No Claim Certificate**

(On Company Letterhead)

To,

(Contract Executing Officer)  
Cochin Port Authority

Sub: **Contract Agreement No ----- dated -----for -----**

We have received the sum of Rs. (Rupees ----- only) in full and final settlement of all the payments due from Cochin Port Authority for ----- under the above mentioned contract agreement, between us and Cochin Port Authority. We hereby unconditionally, and without any reservation whatsoever, certify that with this payment, we shall have no claim, whatsoever of any description, on any account, against Cochin Port Authority, against aforesaid Contract Agreement executed by us.

Yours faithfully,

Signatures of Contractor or  
Officer authorized to sign the Contract Documents  
On behalf of the Contractor  
(Company Stamp)

Date:

Place:

**Manufacturer's Authorization Form (MAF) (Firms Original Letter Head)**

No. \_\_\_\_\_

dated \_\_\_\_\_

To \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Dear Sir,

Tender Reference No. \_\_\_\_\_

We, \_\_\_\_\_ who are established and reputable manufactures of \_\_\_\_\_ having factories at \_\_\_\_\_ and \_\_\_\_\_ do hereby authorize M/s. \_\_\_\_\_ (Name and address of Agent/Dealer) to offer their quotation, negotiate and conclude the contract with you against the above invitation for tender offer for our \_\_\_\_\_ model.

We hereby extend our full technical support including supply of Spares for a minimum period of 7 years as per terms and conditions of the tender and the contract for the equipment and services offered against this invitation for tender offer by the above firm. In case of M/s \_\_\_\_\_ is out of service due to any reason, we will make alternative arrangement for the service and maintenance of our product on same terms and conditions for the above period.

Yours faithfully,

(Name)  
For and on behalf of

M/s \_\_\_\_\_

(Name manufactures)

Note: This letter of authority should be on the letterhead of the manufacturing concern and should be signed by a competent person of the manufacturer.