

 राष्ट्रीय समुद्र प्रौद्योगिकी सीसीटीन NATIONAL INSTITUTE OF OCEAN TECHNOLOGY	सीगिदी आमंत्रण सीचीनी (नन.आ.सी.) NOTICE INVITING TENDER (NIT)- OTTB - GeM फ्रीमम सीचीनी: NIOT/S&P/NIT Form No. e-procurement schedule	
ननगिदीसीचीनी/Tender No.	NIOT/HVT/1456/2026-2027	
कफजार/Tender Title	Supply, Installation and Commissioning of CCTV Surveillance System at NIOT	
ननगिदाप्रणाल/Tender Mode	OTTB (Open Tender Two Bid)-(GeM)	
Tender Issue Date	10.07.2026	
Pre-bid Meeting Date	20.07.2026 at 11.00 am through Webex	
Tender Closing Date & Time	06.08.2026 at 11.00am	
Tender Opening Date & Time	06.08.2026 at 11.30am	
Submission of EMD/ईएमडजमाकरना	Rs. 3,30,940 /- in the form of Demand Draft(DD) drawn in favour of 'NIOT-OTHER RECEIPTS ACCOUNT' (clause Ref 20 for details) or Bank Guarantee as per the available format. https://www.niot.res.in/tenders_index.php a) Scanned copy towards EMD to be uploaded in the GeM portal b) Original EMD should be submitted through courier/speed post or in person dropped at the tender box. The original EMD should reach NIOT well before the Closing date and time of the tender.	
ननगिदीदस्तावीं जउपलब्ध सीचीनी/ Tender Documents available place	Tender documents can be downloaded from GeM Portal www.niot.res.in and NIOT website till closing date and time of the Tender.	
Bidding Type & Bid submission/ बिडिंग प्रकार & ननगिदाजमाकरना	The tender is being Two Bid system, Techno-commercial Bid and BOQ (Price Bid) should be uploaded separately and electronically through GeM Portal The price/cost should not be revealed along with the technical bid. In case, the price/cost is revealed the bid is considered as invalid and summarily rejected.	
अपने प्रश्न ईमेल आईड पर भेजें Send your queries to the Email IDs	ननगिदाके अनंतिम चरण तक/Upto Tender finalization	tenders.niot@gov.in

राष्ट्रीय समुद्र प्रौद्योगिकी सीसीटीन NATIONAL INSTITUTE OF OCEAN TECHNOLOGY
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 रा.स.प्र.स.गी.बसाइट/NIOT Website: <http://www.niot.res.in/tender>

INTRODUCTION

National Institute of Ocean Technology (NIOT) is the technical arm of the Ministry of Earth Sciences, Government of India and is involved in developing technology for utilizing ocean resources in an eco-friendly manner.

Notice Inviting Tender (NIT)

National institute of Ocean Technology invites E-bids for the “**Supply, Installation and Commissioning of CCTV Surveillance System at NIOT**” as per Technical specifications attached in the special condition of the contract (SCC)

1. Submission of bids: Bidders are requested to submit their Bid/quotation in two parts containing Technical proposal as Part-1 and price bid (BOQ) as Part-2 should be submitted electronically through **GeM Portal** <https://gem.gov.in/>. The responsibility to ensure timely submission of bid lies with the bidder. Bids submitted through FAX or e-mail will not be considered. Bidders shall also attach scanned copies of all the requisite documents i.e. other certificates/documents specified in the tender documents. The bids are to be submitted (electronically) as per the bidding type indicated in the front page of the NIT. The bidders are advised to register with GeM portal. Bidders are advised to submit their quotation in two Parts, **no manual tender is acceptable**.

Part-1 should contain Techno-Commercial Bid and duly signed blank price bid (without indicating the cost). All documents to be submitted for tender to be uploaded in the portal only. **The price/cost should not to be revealed in the techno-commercial bid, if the price/ cost is revealed, the tender will be treated as invalid.** The bids are to be submitted as per the bidding type indicated in the front page of the NIT.

Part-2 should contain only the price bid indicating the cost. The Part-1 (Techno-commercial bid) and Part- 2 (Price bid) should be uploaded separately, indicating the Tender No, Tender date, Tender due date and time. Please note that to participate in the tender. If you are a regular supplier of NIOT it is requested to register your company with portal and to procure if not owned already.

1. Evaluation of Bids

i. Evaluation based only on declared criteria

The evaluation shall be based upon scrutiny and examination of all relevant data and details submitted by Bidder in its/ his bid and other allied information deemed appropriate by Procuring Entity. Evaluation of bids shall be based only on the criteria/ conditions included in the Tender Document (NIT & SCC and Corrigendum)

ii. Infirmary/ Irregularity/ Non-Conformity/ Deviations - Substantive or Minor

1. An infirmity/ irregularity or non-conformity/ exception/ deviation/ reservation/ omission from the requirements of the Tender Document shall be considered as a substantive deviation as per the following norm, and the rest shall be considered as Minor deviation: which affects in any

substantive way the scope of work, quality, or performance of the service;

(i) which limits in any substantive way, inconsistent with the Tender Document, the Procuring Entity's rights or the Bidder's obligations under the contract.

2. The decision of the Procuring Entity shall be final in this regard. Bids with substantive deviations shall be rejected as nonresponsive

3. The Procuring Entity reserves the right to accept or reject bids with any minor deviations. Wherever necessary; the Procuring Entity shall convey its observation as per sub-clause below, on such 'minor' issues to Bidder by registered/ speed post/ electronically etc. asking Bidder to respond by a specified date. If Bidder does not reply by the specified date or gives an evasive reply without clarifying the point at issue in clear terms, that bid shall be liable to be rejected as non-responsive.

iii. Clarification of Bids and shortfall documents;

During the evaluation of Techno Commercial or Price Bids, the Procuring Entity may, at its discretion, but without any obligation to do so, seek Bidder's to clarify its bid by a specified date or time. Bidder should reply or clarify within that specified date (or, if not specified, 7 days from the date of receipt of such request). The request for clarification shall be submitted in writing or electronically, and no change in prices or substance of the bid shall be sought, offered, or permitted that may grant any undue advantage to such bidder

The Procuring Entity reserves its right to, but without any obligation to do so, to seek any shortfall information/ documents only in case of historical documents which pre-existed at the time of the tender opening, and which have not undergone change since then and does not grant any undue advantage to any bidder. There is a provision on the portal for requesting Short-fall documents from the bidders. The system allows taking the shortfall documents from any bidders only once after the technical bid opening

iv. Contacting Procuring Entity during the evaluation

From the time of bid submission to awarding the contract, no Bidder shall contact the Procuring Entity on any matter relating to the submitted bid. If a Bidder needs to contact the Procuring Entity for any reason relating to this tender and/ or its bid, it should do so only in writing or electronically. Any effort by a Bidder to influence the Procuring Entity during the processing of bids, evaluation, bid comparison or award decisions shall be construed as a violation of the Code of Integrity, and bid shall be liable to be rejected as non-responsive in addition to other punitive actions for violation of Code of Integrity as per the Tender Document

v. Techno-commercial Evaluation

Only substantively responsive bids shall be evaluated for techno-commercial evaluation. In evaluating the techno-commercial bid, conformity to the eligibility/ qualification criteria, technical specifications, and commercial conditions of the offered service to those in the Tender Document is ascertained. Additional factors incorporated in the Tender Document shall also be considered in the manner indicated therein. Bids with substantive techno-commercial deviations shall be rejected as nonresponsive. Procuring entity reserves its right to consider and allow minor

deviations in technical and Commercial Conditions

vi. Evaluation of Conformity to Commercial and Other Clauses

Bidder must comply with all the Commercial and technical requirements and other clauses of the Tender Document as per NIT, SCC. The Procuring Entity shall also evaluate the commercial conditions quoted by Bidder to confirm that all terms and conditions stipulated in the Tender Document have been accepted without substantive omissions/ reservations/ exception/ deviation by the Bidder. Performance Bond/ Security, Force Majeure, Taxes & Duties, payment, and Code of Integrity, etc.

vii. Declaration of Techno-commercially Suitable Bidders and Opening of Financial Bids

Bids that succeed in the above techno-commercial evaluation shall be considered techno-commercially suitable, and financial evaluation shall be done only of such Bids. The list of such techno-commercially suitable bidders and a date/time and venue for the opening of their financial bids shall be declared on the Portal.

viii. Evaluation of Financial Bids and Ranking of Bids

Unless otherwise stipulated, evaluation of the financial bids shall be on the price criteria only. Financial Bids of all Techno-commercially suitable bids are evaluated and ranked to determine the lowest priced bidder for overall scope.

2. **NIT**: NIT shall form part of the LOI & Contract.

3. **Pre Bid meeting**:

- 3.1 A pre-bid meeting will be conducted through Webex on **20.07.26** to clarify the scope of work, technical specifications, site conditions, and other tender-related requirements for the supply, installation, and commissioning of the CCTV surveillance system.
- 3.2 Bidders are advised to attend the pre-bid meeting to seek clarifications on aspects of system configuration, installation methodology, cable laying (including horizontal boring and trenching), civil works, integration with existing infrastructure, and compliance requirements, as well as commercial terms and tender conditions.
- 3.3 Clarifications issued by NIOT, if any, shall be published via corrigendum through GEM portal and will form as part of the tender document. All queries, if any, should be submitted in writing in advance or raised during the pre-bid meeting.

4. **Pre-Qualification Criteria**:

(A) **Technical** :

4.1 The bidder shall have prior experience in successfully supplying, installing, commissioning, and implementing similar nature works in any Central/State Government organizations, PSUs, Universities, Government research institutes, or other Government/Corporate/Private organizations in India during the last three years ending on the date of publication of the tender on the GeM Portal.

Note:- "Similar nature works" refer to projects involving the supply, installation, testing, commissioning, and maintenance of IP-based CCTV surveillance systems, including associated cabling, networking infrastructure (such as PoE switches and NVRs), civil/electrical works (like

pole erection, trenching, and horizontal boring), and integration with the existing systems on a turnkey basis.

4.2 These works must demonstrate comparable scope, scale, and technical complexity to the current NIOT tender, such as campus-wide or large-facility surveillance deployments with a minimum of 50 cameras, ensuring real-time monitoring, video recording, and compliance with national standards like those from BIS or NDNC. Completion certificates or satisfactory performance reports from clients (government/PSUs preferred) validate such experience, confirming end-to-end delivery within specified timelines.

4.3 The bidder should have executed “similar nature of work” costing the following order value during the past five years from the date of publishing the tender.

- (i) One order/contract not less than INR 82 lakhs (or)
- (ii) Two order/contract not less than INR 55 lakhs each (or)
- (iii) Three order/contract not less than INR 41 lakhs each

4.4 Documentary proof (with Performance certificate issued by the Organization for the executed works) for clauses 4.1 and 4.2 shall be uploaded along with the technical bid; in the absence of any or all such documents, the bid shall not be considered for evaluation.

(B) Financial Criteria:

(1) The average annual turnover of the bidder during the last three years, ending on ‘31st March 2025, should be at least INR 66 Lakhs as per the annual report (a. audited balance sheet and b. profit & loss account report) of the 31/03/2025, duly authenticated by a Chartered Accountant/Cost Accountant in India.

(2) The net worth of the Bidder firm should not be negative year ending 31.03.2025 and also should not have eroded by more than 30% (thirty percent) in last three years, year ending 31.03.2025.

(3) A separate certificate certified by Chartered Accountant for annual turnover and net worth for the last financial three years to be submitted.

5. Security: Any information /material/document uploaded along with this tender or after award of contract should not be disclosed or copied without written permission from NIOT.

6. Contacting NIOT: No correspondence / discussion / visits whatsoever will be entertained on the subject unless specifically called by this office after opening the tender for clarifications in writing. Any violation of this will render the quotation invalid and the firm is liable to be removed from our approved vendor list. However, if bidder requires any clarification on the bid, the query may be mailed to the mail ID **tenders.niot@gov.in**

7. Tender Opening: All the Bidders can participate in the e-tender opening with proper authorization letter from the respective Company.

8. Default in Performance: If any bidder is not successfully discharging their contract obligations against the awarded contract on them by NIOT within the agreed time limit, (OR) if there is any deficiency in performing such obligations, NIOT reserves the right to suspend such bidder from their participation in future tenders of NIOT for a period of one year. Even after revoking the suspension period the bidder’s performance still continues to be the same without any improvement, NIOT reserves right to BAN such bidder permanently from participation in all the tenders of NIOT and organizations of MOES.

9. Goods: Goods should be supplied only after receipt & signing of the contract by NIOT.

10. LOI: The successful bidder should accept the LOI within 15 days from the date of receipt of LOI, failing which it shall be presumed that the successful bidder is not interested, and the EMD submitted will be forfeited or action will be initiated as per the Bid securing Declaration.

11. Signing of the Contract : on LOI acceptance a contract should be signed on INR. 500 Non-judicial stamp paper between NIOT and the successful bidder. In case the contract is signed by other than the Director of the Company, Power of Attorney and Board Resolution should be submitted. If the Director of the Company is signing the Contract, then the copy of the Memorandum of Article (MoA) to be submitted.

12. Change of Name after award: Request / intimations with regard to change of name of the contracting company or constitution of the contractor after the tender opening or award of contract shall not be allowed as a matter of right. The bidders/ contractors are required to submit all relevant documents with regard to change of name or /and change of constitution and the circumstances leading to such change beforehand. It shall be the discretion of NIOT to proceed with the contract after such changes and in case, NIOT decides to proceed with the contract, it may require the contractor to execute further agreements with regard to execution/ implementation of the contract.

13. One Bid per Bidder: A firm shall submit only one bid either individually or as a partner of a joint venture or as a corrigendum, if a bidder submit more than one bid will result in rejection of all the bids.

BIDDING CONDITION

14. Deadline for Submission of Bids: Bids must be received by NIOT at the GeM portal specified in the Invitation for Bids cover page on or before the due date/ extended due date thereof.

15. Due date Extension, Corrigendum to NIT: Any corrigendum including due date extension for NIT, Pre-bid minutes of meeting will be notified in GeM portal and NIOT website. Hence bidders are requested to watch NIOT website/ GeM portal for such due date extension and corrigendum, if any.

16. In case of the unscheduled holiday in Chennai being declared on the prescribed closing / opening day of the tender, the next working day will be treated as the scheduled prescribed day of closing/opening day of the tender.

17. Unsolicited Correspondences: NIOT will not entertain any unsolicited correspondence or queries on the status of offer against this tender. Bidder shall note that NIOT will not entertain any correspondence or queries on the status of the offers received against this Tender Invitation.

18. Non-Receipt of Tender: NIOT will not be responsible for the non-receipt of the tender due to any network problem.

19. Submission of tender by a tenderer implies that he has read the Notice Inviting Tender and has made himself aware of the scope and specifications of the work to be done; conditions and rates at which stores, tools and plant etc. will be issued to him by NIOT; local conditions and other factors bearing on the execution of the works.

20. EMD/Bid security: The EMD/Bid security (**Rs. 3,30,940/-**) is mandatory as indicated in the cover page and should be submitted along with the technical bid for the value indicated in the front page of this tender document. The EMD/Bid security is mandatory requirement as indicated in the cover page and should be submitted along with the technical bid for the value indicated in the front page of this tender document. Bids without EMD will be summarily rejected.

The EMD/bid security may be accepted in the following form

- (1) Insurance Surety Bonds,
- (2) Account Payee Demand Draft (drawn in favour of "NIOT other Receipt Account", Chennai in INR or in equivalent foreign currency),
- (3) Fixed Deposit Receipt,
- (4) Banker's Cheque or Bank Guarantee from any of the Commercial Banks. (Bank Guarantee as per prescribed format available in the NIOT web site at the link https://www.niot.res.in/tenders_index.php)
- (5) Online payment in an acceptable form.

If the EMD (scanned copy of the instrument of EMD) is not submitted along with Techno-commercial (Part-I). The bid will be summarily rejected. The original EMD should be submitted (or) reach NIOT on or before closing date the time of the tender.

The Following categories of Sellers/bidder shall however, be exempted from furnishing Bid Security:

- i. Micro and Small Enterprises (MSEs) who are holding valid Udyam Registration and are manufacturer of the offered Product or Service (Primary Product/Service-in case of bunch bid with total value wise evaluation) and give specific confirmation to this effect at the time of bid submission and claim EMD exemption and whose credentials are validated online through Udyam Registration website of Ministry of MSME and also through supporting document uploaded during bidding process and validated by the Buyer. State Government Buyers may, however, choose to exempt only MSEs from the State of Bid Inviting Authority by specifying the same in ATC of the Bid. In case no such ATC is included, eligible MSEs of all states are exempted.
- ii. Start-ups as recognized by Department for Promotion of Industry and Internal Trade(DPIIT), holding valid Startup Recognition Certificate which is to be uploaded while bidding and claiming EMD exemption and to be validated by the Buyer. Bidder to ensure that turnover for any of the financial years has not exceeded beyond limits prescribed in the certificate / Start Up scheme of DPIIT.
- iii. KVIC, ACASH, WDO, Coir Board, TRIFED and Kendriya Bhandar.
- iv. Sellers who have got their credentials verified through the process of Vendor Assessment by Vendor Assessment Agencies for the Primary Product / Primary Service for which Bid / RA has been invited and holding valid Vendor Assessment or Vendor Assessment Exemption Report /confirmation (Seller to upload VA report/VAE confirmation to be validated by the Buyer)
- v. Sellers/Service Provider having annual turn over of ₹500 Crore or more, at least in one of the past three completed financial year(s)

- vi. Sellers/Service Providers holding valid BIS License for the Primary Product Category whose credentials are validated through BIS database and through uploaded supporting documents to be validated by the buyer.
- vii. Central/State PSUs.
- viii. Seller/ Service Provider registered with designated Agency/ Authority as specified in the bid document by the Buyer such bidder shall have to upload scanned copy of relevant valid registration document in place of Bid Security document while bidding.

MSME Conditions:

(a) The MSE's bidder who claim EMD request should submit the relevant document towards investment on equipment and machinery. As per NIT clause no 63 make in India as per the DPIIT order under Annexure 9, under MSE.

(b) The MSE's bidder to note and ensure that nature of service and goods/items manufactured mentioned in MSE's certificate matches with the nature of the service and goods/item to be supplied as per tender.

(c) Retail & Whole sale Traders : Any bidder who are retailer/Traders claim EMD/Bid security exemption shall refer Ministry OM 5/2(2)/2021-E/P&G/Policy dated 02.07.2021 & 5/2(1)2020/E-P&G/Policy dated 01.12.2020.

The MSME is classified as mentioned below; (Ref Ministry of MSME revised classification applicable w.e.f 1st April 2025)

(i) **Micro Enterprises:** Where the investment in plant and machinery or equipment does not exceed 2.5 Crore rupees and turnover does not exceed 10 Crore rupees,

(ii) **Small Enterprises:** Where the investment in plant and machinery or equipment does not exceed 25 Crore rupees and turnover does not exceed 100 Crore rupees,

(iii) **Medium Enterprises:** Where the investment in plant and machinery or equipment does not exceed 125 Crore rupees and turnover does not exceed 500 Crore rupees.

Start-up Enterprises:

1) Up to a period of ten years from the date of incorporation/ registration, if it is incorporated as a private limited company (as defined in the Companies Act, 2013) or registered as a partnership firm (registered under section 59 of the Partnership Act, 1932) or a limited liability partnership (under the Limited Liability Partnership Act, 2008) in India, and Turnover of the entity for any of the financial years since incorporation/ registration has not exceeded one hundred crore rupees, and The entity works towards innovation, development or improvement of products or processes or services or a scalable business model with a high potential for employment generation or wealth creation.

As defined by DPIIT, an entity shall be considered as a 'Start-up':

2) Provided that an entity formed by splitting up or reconstructing an existing business shall not be considered a 'Start-up'.

3) A Start-up so identified under the above definition shall be required to obtain and submit along with his bid a certificate of an eligible Start-up from the inter-Ministerial Board of

Certification to obtain support.

Relaxation to Start-ups

The Government of India has ordered the following support to Start-ups (as defined by the Department of Promotion of Industrial and Internal Trade - DPIIT).

Exemption from submission of Bid Security: Such Start-ups shall be exempted from payment of Earnest Money. (as per ITB-clause 9.4 below, they shall be required only to submit Bid Security Declaration)

Relaxation in Prior Turnover and Experience: The Procuring Entity reserves its right to relax the condition of prior turnover and prior experience for start-up enterprises subject to meeting of quality & technical specifications.

EMD Exemption for MSEs and Registered Vendor

The EMD exemption shall be applicable for the following bidders

- i). MSEs registered with valid MSEs registration number
- ii). Registered vendor of NIOT for the similar tender category
- iii). Registered with the Central Procurement Organization or the concerned department for the similar tender category.

The bidder who is claiming EMD exemption shall be required only to submit a Bid Security declaration.

21. Conditions for EMD / Bid Security: EMD shall be returned / discharged to unsuccessful bidders within 15 days after the expiration of the period of bid validity or placement of PO/LOI whichever is later. EMD may be forfeited:

- a. If a bidder withdraws, modifies for provided unsolicited offer voluntarily revising the price in whatsoever aspect its bid during the period of bid validity specified by the bidder on the bid form or
- b. In case of a successful bidder, fails to furnish order acceptance within 15 days of the LOI and / or fails to furnish Performance Security.

EMD for a successful bidder shall be adjusted against performance security payable if submitted in DD / refunded if / performance security is submitted.

22. Bid Validity: Bids shall remain valid and open for acceptance for a minimum period of **120 days** from the date of opening of Un-priced Techno-commercial bids when fully compliant tender is submitted by the bidder without any requirement for NIOT to seek additional documents towards evaluation of pre-qualification and/or in ensuring conformance to the specification/requirements of the tender. In the event of any delay in evaluation attributable to the vendor, bidder shall extend the tender by such a time taken by them in addition to above minimum tender validity period. A bid valid for shorter validity period will be considered as a conditional tender and treated as invalid tender.

23. Bid validity extension: While NIOT will finalize the tender within the bid validity sought as per this NIT, due to circumstances beyond the control of NIOT, prior to expiry of

the original bid validity period, **NIOT may request the bidder for a specified extension of the bid validity without modifying RFP or Price.** The request and the responses thereto shall be made in writing. A bidder agreeing to the request will extend the validity of his bid correspondingly. When bid validity is extended EMD BG also deemed to have been extended automatically for which necessary action would be taken by the bidder to submit the extended BG well before the expiry of the current validity of the BG.

24. Conditional offers: Conditional offer will not be accepted.

25. Signing of bids: Each page of the tender document shall be digitally signed by the bidder and should be uploaded along with all other documents.

26. The broad configuration: Specification of the proposed purchase /work is given. Bidders are required to keep their proposal strictly as per the specification prescribed.

27. Acceptance of bids: NIOT may accept or reject any/all tenders including the lowest tender without assigning any reasons whatsoever. NIOT also reserves its right to accept any tender in part or parts only with such conditions as it may prescribe. NIOT is not bound to accept the lowest tender. NIOT expects full technical compliance and expects full scope of integrated supply as per tender specification and do not accept partial tenders.

28. The compliance sheet with reference to the specifications should be furnished against each parameter while submitting the quotation, which is absolutely necessary. The tenderer shall submit technical & commercial compliance sheets and BOQ (price bid) separately along with their offer. **Tenders with out compliance sheets will not be evaluated.** The Price bid should be unconditional.

29. Canvassing: Canvassing in any form by any bidder or by any other agency acting on behalf of the partner after submission of bid may disqualify the said partner. NIOT's decision in this regard shall be final and binding on the partner.

30. Bid or modification to bids received after closing date and time shall not be considered. Such modified bid together with original bid will be summarily rejected. Modification to the bid after opening the bid will not be considered unless specifically requested for by NIOT and only in case if there is an absolute necessity to revise the technical specifications after opening of bid.

31. Unrealistic bids with either cost which is impossible to achieve or for bidders who show that they are completely inexperienced or have completely inappropriate equipment will be rejected.

TERMS AND CONDITIONS GOVERNING THE CONTRACT

32. Place of Quotation:

Local firms inside Chennai: Quotations should indicate the cost with free delivery up to NIOT. If quote is for Ex-Godown rate delivery charges should be indicated separately and explicitly. The word Extra" shall be avoided.

Firms outside Chennai: Quotations should be F.O.R, NIOT, Chennai. If F.O.R. consignment freight charges by passenger train / Road transport must be indicated. If EX- Godown,

packing and forwarding and freight charges must be indicated separately. Goods should be supplied carriage paid and insured for Contractor godown to consignee warehouse Chennai.

33. Price: The price shall include but not limited to

a) Costs of goods/services covered in this Contract.

b) Taxes and duties

c) Transportation and packing cost (Sea/Air worthy packing of internationally acceptable practices withstand transit and Transshipments by sea / air / road / rail)

d) Cost of handling, documentation, freight, insurance from Contractor's warehouse upto NIOT warehouse, installation and commissioning of the equipment when part of Contractual obligation.

34. Discounts: Bidders are advised not to indicate separate discounts. Discounts, if any, should be duly considered and net rate should be quoted in the BOQ/Price Bid.

35. GST: GST will be paid as per HSN code as applicable.

Deductibles:

a) Deduction of Indian Income Tax Deduction at Source for the Indian bidders: TDS will be deducted as applicable for service portion at prevailing rates. Valid Permanent Account Number (PAN) is mandatory.

b) GST-TDS:

GST-TDS is deductible on supply of goods or Service in respect of Intra – State supplies at the rate of 2% (CGST @1% and SGST @ 1%) and also in case of Inter-State supplies @ the rate of 2% from the payment made or credited to the supplier of taxable Service.

36. Guaranteed time of delivery – specific performance of contract:

The time of delivery is the essence of the contract and all the items as per the contract should be delivered as per the specification within a period of **45 days** from the date of signing of the contract. Installation and commissioning shall be completed within **85 days** from the date of supply and acceptance of all items, ensuring the entire scope of work is fulfilled within **130 days** from the date of issue of the contract. In the event of part supply, NIOT will withhold the entire payment until all the items/scope of the supply as per the contract is supplied.

37. Extension of delivery period: If any item or the completion of systems / components is delayed for reasons of force majeure such as acts of God, Acts of Public enemy, acts of Government, fires, floods, epidemics, quarantine restrictions, illegal strikes and freight embargoes, the Contractor shall **within 3 days** from the date of such occurrence, will give a notice to NIOT in writing of his claim for extension of delivery period. NIOT on receipt of such notice may agree to extend the Contract delivery/completion date as may be reasonable but without prejudice to other terms and conditions of the Purchase Order/contract. Unless the extended delivery period is agreed by NIOT in writing, contractor cannot claim the extension of delivery time as a matter of right. NIOT shall have the right to either cancel the Purchase Order/Contract extend the Purchase order/Contract delivery period or levy LD as appropriate.

38. Delay in Completion/Liquidated Damage (LD): If the Contractor fail to deliver the item within the time specified in the Contract, NIOT will recover from the Contractor as liquidated damages a sum of **0.5% plus GST** of the Contract value, for each calendar week

of delay and part thereof. The total liquidated damages will not exceed **10% Plus GST** (Ten percent) of the Contract value.

39. Insurance: The Goods supplied under the Purchase Order shall be fully insured against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the NIT. If any such damage occurred, the goods shall be replaced within in the Purchase Order price immediately without waiting for the insurance claim. The cost of insurance shall be in the scope of the contractor/supplier.

40. Risk Purchase: If the Contractor/Supplier fails to deliver the item & not completed the installation or any installment thereof within the period fixed for such completion or at any time repudiates the Contract before expiry of such period, NIOT is entitled to cancel the Contract and complete the remaining work/supply item from any parties the items/components which are not delivered, at the risk and cost of the defaulting Contractor/Supplier. No payment shall be claimed for any part supplies made.

41. Risk and Insurance:

The Successful Bidder shall take out and keep in force the following adequate insurance to cover all risks including but not limited to third party risk coverage and shall submit to NIOT copy of policy if required. During the development of the system, testing, trials and all transportation including transit up-to receipt of the Product / material at NIOT and acceptance after final phase of testing including during field operations.

The Successful Bidder shall take out and keep in force, adequate insurance in respect of their own as well as hired equipments (to the extent of their insurable interest) tools, materials, marine spreads, vessels, barges, crafts ships and operational facilities used during the entire period of their engagement in connection with the Contractor to the insurable value of such constructional plant, equipment and other things. NIOT shall have no liability whatsoever in this regard. NIOT shall not consider any claim whatsoever, hence Bidder/Contractor shall assess all possible risks and take adequate all risk insurance cover including transit insurance. General terms and conditions for tender submission & evaluation.

42. Warranty:

- (i) The Start date of the 3-year warranty period (1 year standard warranty + 2 years extended warranty) shall start from the date of successful commissioning of the CCTV solution in NIOT, Chennai, by the Bidder / OEM.
- (ii) All the parts/items/components/software license, if any & their accessories delivered for the proposed solution as per the specification & BoQ in this bid should have a comprehensive onsite warranty, including support for three (3) years from the date of commissioning of the CCTV system.
- (iii) The defects, if any, during the warranty period are to be rectified within the quoted price by arranging replacement wherever necessary. This includes cost, insurance, freight, customs duty, GST, and local taxes, if any, should be borne by the bidder.

- (iv) Bidder has to provide maintenance support to the equipment and arrange for spare parts for an entire period of 3 years for CCTV Solutions from the successful commissioning of the CCTV system in NIOT, Chennai.
- (v) During the warranty Period, in case there is a hardware failure three or more times in a period of less than three (3) months, then it shall be replaced by equivalent or higher-level new equipment by the contractor within the Order price or quoted price.
- (vi) Since the entire solution includes a 3-year comprehensive warranty, the vendor shall ensure completion of the 3-year warranty under any circumstances. Warranty shall include free maintenance of the whole equipment supplied, including free replacement of parts. The defects, if any, shall be attended to on an immediate basis, but in no case should any defect remain for more than 2 business days. All ongoing software upgrades for all major and minor releases should be provided during the warranty period.
- (vii) Bidder should ensure that there is a back-to-back agreement with OEM to meet the above hardware and software warranty terms
- (viii) During the warranty period, the vendor's authorized engineer shall visit the site for preventive maintenance every month.
- (ix) Defective components other than hard disks will be returned for replacement with new parts. However, the vendor must replace defective hard disks with new hard disks without demanding the return of defective hard disks.
- (x) During the warranty period, based on user request, the bidder has to install any additional cameras or change the location of the camera with all supported accessories without any additional cost. In the event of any changes in location or the installation of a new camera, NIOT will supply the required hardware and software accessories, if applicable.

43. Performance Security:

The successful bidders should deposit **5%** of the LOI value as Performance Security within **two weeks** from the date of issue of LOI. The Performance security may be accepted in the following form

- (1)** Insurance Surety Bonds,
- (2)** Account Payee Demand Draft (drawn in favour of "The Director N.I.O.T", Chennai in INR or in equivalent foreign currency).
- (3)** Fixed Deposit Receipt from any Commercial Bank.
- (4)** Bank Guarantee from any of the Commercial Banks.
- (5)** Online payment in an acceptable form.

Performance security shall be forfeited in the event of breach of Contract by the LOI in terms of the LOI. If Performance Security is not paid within the specified time, NIOT reserves its right to cancel the PO/LOI and forfeit the EMD /Bid security.

Bank Guarantee shall be as per prescribed format issued by a National /Commercial bank and valid for 60days beyond the scheduled delivery / completion period as per LOI. This format can be downloaded from the link https://www.niot.res.in/tenders_index.php

44. Performance Guarantee/ Warranty Bank Guarantee: As per the MoF guidelines **10% of the item value** to be retained towards warranty to ensure the performance of the equipment's/systems to avoid any defect due to material/ workmanship or any omission on the part of the purchase order to rectify the same during the warranty period. If performance bank guarantee for 10% of the item value is submitted and valid till completion

of the warranty period and acceptance then 90% payment will be released at stage (a). The warranty Bank Guarantee will be discharged after completion of the standard warranty period.

45. Payment: NO ADVANCE PAYMENT WILL BE MADE. 70% payment will be made after supply, Installation and Commissioning and acceptance of the CCTV surveillance system within 30 days from the date of receipt of bill / acceptance of goods along with the required documents. Warranty certificate, test certificates shall be submitted pursuant to GCC & SCC Clauses and upon fulfilment of other obligations stipulated in the purchase order. Balance 30% payment will be retained towards warranty period and the same will be released only after completion of 3 yrs warranty period.

46. Force Majeure: For purposes of this Clause, "Force Majeure" means an event beyond the control of the Contractor and not involving the Contractor's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of NIOT either in its sovereign or Contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the Contractor shall promptly notify NIOT in writing of such conditions and the cause thereof. Unless otherwise directed by NIOT in writing, the Contractor shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

47. Adjudication, Mediation and Arbitration: All disputes relating to the contract, including adjudication, mediation and arbitration, shall be governed by the provisions contained in **Chapter 10 (Disputes and Conflicts)** of the *Manual for Procurement of Consultancy & Other Services, 2025*/ **Chapter 9(Disputes and Conflicts)** of the *Manual for Procurement of Goods, 2025* issued by the Department of Expenditure, Ministry of Finance, as amended from time to time, and by the subsequent guidelines on arbitration and mediation in domestic public procurement contracts issued by the Department of Expenditure. Arbitration will be restricted to disputes with a value less than Rs. 10 crores. This is inclusive of both claims and counterclaims. Arbitration will not be a method of dispute resolution in all other cases.

48. Submission of Technical Document: Specifications are basic essence of the product. The broad configuration / specification of the proposed purchase are given in NIT the Special Conditions of the contract (SCC). It must be ensured that the offers are strictly as per our specifications as mentioned in the Annexure – I of NIT (SCC). At the same time, it must also be kept in mind that merely copying our specifications in their quotation shall not make firms eligible for consideration. Technically unsuitable offers and offers not confirming to tender schedule shall be rejected.

a. The bidder is required to provide their comments item-by-item on the compliance sheet provided in the Annexure – I of NIT (SCC). Wherever the specified parameter is required within a range, the calculated/ estimated value as per the vendor's design is to be provided in the "Remarks" column. Deviations/exceptions, if any, from the specifications to be recorded in the "Remarks" column.

b. Offer must contain all relevant technical details. Relevant preliminary drawings (if any) pertaining to the quoted designs, duly signed by the authorized official shall be sent along with the quotation. Wherever mentioned, documentary evidence has to be enclosed in the

quotation. Any erasures / over writing shall be counter signed by the person who is signing the bid. Any interlineations, erasures or overwriting shall be valid only if the person or persons signing the bid sign them.

c. NIOT will not provide any test procedures. All relevant required tests as mentioned in the technical specification to conduct within the quoted price.

49. Fundamental Principle of Public Buying:

i) Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.

ii) "Bidder"(including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

iii) "Bidder from a country which shares a land border with India" for the purpose of this Order means:

a. An entity incorporated, established or registered in such a country; or

b. A subsidiary of an entity incorporated, established or registered in such a country; or

c. An entity substantially controlled through entities incorporated established or registered in such a country; or

d. An entity whose beneficial owner is situated in such a country; or An India (or other) agent of such an entity; or

e. A natural person who is a citizen of such a country; or

f. A consortium or joint venture where any member of the consortium or joint venture falls under any or the above.

iv) The beneficial owner for the purpose of (iii) above will be a sunder:

1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

a. "Controlling ownership interest" means ownership of or entitlement to more than twenty- five percent of shares or capital or profits of the company;

b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements

2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;

3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;

4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;

5. In case of a trust, the identification of beneficial owner(s) shall include identification

v). An agent is a person employed to do any act for another, or to represent another in dealings with third person

vi). The successful bidder(contractor) shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the competent authority.

50. Assignment And Subcontracting: The Contractor shall not assign the Contract or any part thereof, or any benefit or interest therein or hereunder, nor assume a fresh partner or partners nor dissolve the partnership at present subsisting between them in reference to this Contract without a formal written request and approval by NIOT. Also, the Contract shall not assign the Contract or any part thereof, or any benefit or interest therein or hereunder, nor assume afresh partner or partners nor dissolve the partnership at present subsisting between them in reference to this Contract without a formal written request and approval by NIOT. Also, partnerships or third-party vendors during Tender should not be altered without a written approval.

51. Eligible Bidders: Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation of Bids.

The bidders who have been temporarily suspended or removed from the list of registered suppliers by the purchaser or banned from Ministry/country wide procurement shall be ineligible for participation in the bidding process.

52. Joint Venture, Consortium or Association: If the Supplier is in a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfilment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser.

53. Amalgamation/Acquisition etc:

In the event the Manufacturer/Supplier proposes for amalgamation, acquisition or sale its business to any firm during the Contract period, the Buyer/Successor of the Principal Company are liable for execution of the Contract and also fulfilment of Contractual obligations i.e. supply, installation, commissioning, warranty, maintenance/replacement of spares accessories etc. You may confirm this condition while submitting the bid.

54. Confidentiality

i) Information relating to the examination, evaluation, comparison, and post qualification of bids, and recommendation of purchase order award, shall not be disclosed to bidders or any other persons not officially concerned with such process until Award of the Purchase order. However, decisions taken during process of tender evaluation shall be hosted on e-wizard portal.

ii) Any effort by a Bidder to influence the Purchaser in the examination, evaluation, comparison, and post qualification of the bids or purchase order award decisions may result in the rejection of its Bid.

55. Authorisation: The bidder is qualified only when he is the original manufacturer or established dealer with original manufacturer's authorization letter to quote, sell and service the products offered as per the prescribed format in our web site along with agency agreement.

56. Cost of Bidding:

The Bidder shall bear all costs associated with the preparation and submission of its bid, and "the Purchaser", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

56.1 Code of Integrity for Public Procurement

The purchaser requires that the bidders, suppliers and purchase orders observe the highest standard of ethics during the procurement and execution of such purchase orders. In pursuit of this policy, the following are defined:

(a) Corrupt practice

The offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in purchase order execution.

(b) Fraudulent practice

A misrepresentation or omission of facts in order to influence a procurement process or the execution of a purchase order.

(c) Collusive practice

Means a scheme or arrangement between two or more bidders, with or without the knowledge of the purchaser, designed to establish bid prices at artificial, non-competitive levels.

(d) Coercive practice

Means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a purchase order.

(e) Anti competitive practice

Any collusion, bid rigging or anti-competitive arrangement, or any other practice coming under the purview of the Competition Act, 2002, between two or more bidders, with or without the knowledge of the purchaser, that may impair the transparency, fairness and the progress of the procurement process or to establish bid prices at artificial, non-competitive levels

(f) Conflict of interest

participation by a bidding firm or any of its affiliates that are either involved in the consultancy purchase order to which this procurement is linked; or if they are part of more than one bid in the procurement; or if the bidding firm or their personnel have relationships or financial or business transactions with any official of purchaser who are directly or indirectly related to tender or execution process of purchase order; or improper use of information obtained by the (prospective) bidder from the purchaser with an intent to gain unfair advantage in the procurement process or for personal gain

(g) Obstructive practice

materially impede the purchaser's investigation into allegations of one or more of the above mentioned prohibited practices either by deliberately destroying, falsifying, altering; or by concealing of evidence material to the investigation; or by making false statements to investigators and/or by threatening, harassing or intimidating any party to prevent it from

disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or by impeding the purchaser's Entity's rights of audit or access to information

56.2 The Purchaser will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Purchase order in question.

56.3 The bidders/suppliers should sign a declaration about a bidding by the Code of Integrity for Public Procurement and submit it in the form as per Annexure-II along with bid documents. In case of any transgression of this code, the bidder is not only liable to be removed from the list of registered suppliers, but it would be liable for other punitive actions such as cancellation of purchase orders, banning and blacklisting or action by Competition Commission of India, and so on.

56.4 Obligations for Proactive disclosures

a) The Purchaser as well as bidders, suppliers, purchase orders and consultants, are obliged under Code of Integrity for Public Procurement to sue-moto proactively declare any conflicts of interest (coming under the definition mentioned above –pre-existing or as and as soon as these arise at any stage) in any procurement process or execution of purchase order. Failure to do so would amount to violation of this code of integrity.

b) The bidder must declare, whether asked or not in a bid document, any previous transgressions of such a code of integrity with any entity in any country during the last three years or of being debarred by any other Procuring Entity. Failure to do so would amount to violation of this code of integrity.

c) To encourage voluntary disclosures, such declarations would not mean automatic disqualificationforthebiddermakingsuchdeclarations.Thedeclaredconflictofinterestwould be evaluated and mitigation steps, if possible, taken by the purchaser.

56.5 Punitive Provisions

Without prejudice to and in addition to the rights of the Purchaser to other penal provisions as per the bid documents or purchase order, if the Purchaser comes to a conclusion that a (prospective) bidder/supplier, directly or through an agent, has violated this code of integrity in competing for the purchase order or in executing a purchase order, the purchaser may take appropriate measures including one or more of the following:

a) If his bids are under consideration in any procurement:

- i. Forfeiture or encashment of bid security;
- ii. Calling off of any pre-purchase order negotiations; and
- iii. Rejection and exclusion of the bidder from the procurement process.

b) If a purchase order has already been awarded

- i. Cancellation of the relevant purchase order and recovery of compensation for loss incurred by the Purchaser;
- ii. For feature or encashment of any other security or bond relating to the procurement;
- iii. Recovery of payments including advance payments, if any, made by the purchaser along with interest thereon at the prevailing rate.

c) Provisions in addition to above:

- i. Removal from the list of registered suppliers and banning /debarment of the bidder from participation in future procurements of the purchaser for a period not less than one year;
- ii. In case of anti-competitive practices, information for further processing may be filed under a signature of the Joint Secretary level officer, with the Competition Commission of India;
- iii. Initiation of suitable disciplinary or criminal proceedings against any individual or staff found responsible.

57 Amendment to Bidding Documents:

In order to allow prospective bidders reasonable time to take the amendment into account while formulating their bids, the Purchaser, at its discretion, may extend the due date for the submission of bids and host the changes on the GEM portal through a corrigendum

58 Documents Establishing Goods' Eligibility and Conformity to Bidding Documents:

58.1 To establish the goods' eligibility, the documentary evidence of the goods and services eligibility shall consist of a statement on the country of origin of the goods and services offered which shall be confirmed by a certificate of origin at the time of shipment.

58.2 To establish the conformity of the goods and services to the specifications and schedule of requirements of the bidding document, the documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings and data, and shall consist of :

- a) A detailed description of the essential technical and performance characteristics of the goods;
- b) A list giving full particulars, including available sources and current prices, of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods during the warranty period following commencement of the use of the goods by the Purchaser in the Price- bid ; and
- c) An item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications.
 - a. For purposes of the commentary to be furnished pursuant to above, the Bidder shall note that standards for workmanship, material and equipment, designated by the Purchaser in its Technical Specifications are intended to be descriptive only and not restrictive. The Bidder may substitute these in its bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

59 Contacting the Purchaser

- a)** No Bidder shall contact the Purchaser on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded.
- b)** Any effort by a Bidder to influence the Purchaser in its decisions on bid evaluation, bid comparison or Contract award may result in rejection of the Bidder's bid.

Post qualification

- c)** In the absence of pre-qualification, the Purchaser will determine to its satisfaction whether the bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the Contract satisfactorily, in accordance with the criteria listed in

the SCC of the NIT.

d) The determination will take into account the Eligibility & Qualification criteria listed in the SCC of the NIT and it will be based upon an examination of the documentary evidence of the bidder's qualifications submitted by the bidder, as well as such other information as the Purchaser deems necessary and appropriate.

e) An affirmative determination will be a prerequisite for award of the Contract to the Bidder. A negative determination will result in rejection of the Bidder's bid.

60 Bidder's right to question rejection

A Bidder shall have the right to be heard in case he feels that a proper procurement process is not being followed and/or his tender has been rejected wrongly. Only a directly affected bidder can represent in this regard as under:

60.1 Only a bidder who has participated in the concerned procurement process i.e. pre-qualification, bidder registration or bidding, as the case may be, can make such representation.

60.2 In case pre-qualification bid has been evaluated before the bidding of Technical bids, an application for review in relation to the technical bid may be filed only by a bidder who has qualified in prequalification bid.

60.3 In case technical bid has been evaluated before the opening of the financial bid, an application for review in relation to the financial bid may be filed only by a bidder whose technical bid is found to be acceptable.

60.4 In case a Bidder feels aggrieved by the decision of the purchaser, he may then send his representation in writing to the Purchaser's address as indicated in special conditions of Contract (SCC) within 05 working days from the date of communication of the purchaser intimating the rejection for reconsideration of the decision by the purchaser.

60.5 Following decisions of the purchaser in accordance with the provision of internal guidelines shall not be subject to review:

- (a) Determination of the need for procurement;
- (b) Selection of the mode of procurement or bidding system;
- (c) Choice of selection procedure;
- (d) Provisions limiting participation of bidders in the procurement process;
- (e) The decision to enter into negotiations with the L1 bidder;
- (f) Cancellation of the procurement process except where it is intended to subsequently re-tender the same requirements;
- (g) Issues related to ambiguity in purchase order terms may not be taken up after a purchase order has been signed, all such issues should be highlighted before consummation of the purchase order by the vendor/contractor; and
- (h) Complaints against specifications except under the premise that they are either vague or too specific so as to limit competition may be permissible.

61 Termination of contract by NIOT:

In case the Contractor undergoes insolvency or receivership, neglects or defaults or

expresses inability or disinclination to honour his obligations relating to the performance of the contract or ethical standards or any other obligation that substantively affects the NIOT's rights and benefits under the contract, it shall be treated as a breach of contract. Such defaults could include inter-alia:

1) Default in Performance and Obligations: if the Contractor fails to deliver any or all of the Services or fails to perform any other contractual obligations (including Code of Integrity or obligation to maintain eligibility and evaluation criteria based on which contract was awarded) within the period stipulated in the contract or within any extension thereof granted by the NIOT. In the case of a Joint Venture/ Consortium, If the performance of any JV/C member is persistently un-satisfactory by the NIOT in respect of the responsibilities assigned to him as per the JV agreement, which is part of this Contract.

2) Insolvency: If the Contractor being an individual or if a firm, any partner thereof, shall at any time be adjudged insolvent or shall have a receiving order or order for the administration of his estate made against him or shall take any proceeding for composition under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or enter into any assignment or composition with his creditors or suspend payment or if the firm be dissolved under the Partnership Act, or

3) Liquidation: if the Contractor is a company being wound up voluntarily, or by order of a Court or a Receiver, Liquidator or Manager on behalf of the Debenture-holders is appointed, or circumstances shall have arisen which entitle the Court or Debenture-holders to appoint a Receiver, Liquidator or Manager

As soon as a breach of contract is noticed, a show-cause 'Notice of Default' shall be issued to the Contractor, giving two weeks' notice, reserving the right to invoke contractual remedies.

In the event of an unsatisfactory resolution of 'Notice of Default' within two weeks of its issue as per the sub-clause above, the NIOT, if so decided, shall

1) take one; or more of the following contractual remedies.

a) Recover liquidated damages and invoke a denial clause for delays.

b) In the case of JV/C, NIOT may call upon the Lead Member to assign the work of the defaulting member to any other equally competent party acceptable to the NIOT.

c) Temporarily withhold payments due to the Contractor till recoveries due to invocation of other contractual remedies are complete.

d) Call back any loaned property or payment advances with a levy of interest at the prevailing rate (MIBID - Mumbai Interbank Proposal Rate).

e) Encash and/ or Forfeit performance or other contractual securities.

f) Prefer claims against the insurance, if any.

g) Terminate the Contract for default, fully or partially, including its right for Risk and-Cost Procurement.

h) Initiate proceedings in a court of law for the transgression of a law, tort, and loss not addressable by the other remedies above.

2) By written Notice of Termination for Default sent to the Contractor, terminate the contract in whole or in part, without compensation to the Contractor. a) Such termination shall not prejudice or affect the rights and remedies, including under the sub-clause below, which have accrued and/ or may accrue to the NIOT after that. b) Unless otherwise instructed by the NIOT, the Contractor shall continue to perform the contract to the extent not terminated. c) All Defect Liability obligations, if any, shall survive despite the termination.

Risk and Cost Procurement: In addition to termination for default, the NIOT shall be entitled, and it shall be lawful on his part, to procure Services similar to those terminated,

with such terms and conditions and in such manner as it deems fit at the "Risk and Cost" of the Contractor. Such Risk and Cost Procurement must be contracted within nine months from the breach of contract. The Contractor shall be liable for any loss which the NIOT may sustain on that account provided the procurement, or, if there is an agreement to procure, such agreement is made. The Contractor shall not be entitled to any gain on such procurement, and the manner and method of such procurement shall be at the discretion of the NIOT. It shall not be necessary for the NIOT to notify the Contractor of such procurement. It shall, however, be at the discretion of the NIOT to collect or not the security deposit from the firm/ firms on whom the contract is placed at the risk and cost of the defaulted firm.

Limitation of Liability Except in cases of criminal negligence or wilful misconduct, the aggregate liability of the Contractor to the NIOT, whether under the contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the NIOT concerning IPR infringement.

Notice for Determination of Contract

The NIOT reserves the right to terminate the contract, in whole or in part, for its (the NIOT's) convenience or frustration of Contract as per the sub-clause below, by serving written 'Notice for Determination of Contract' on the Contractor at any time during the currency of the contract.

The notice shall specify that the termination is for the NIOT's convenience or the contract's frustration. The notice shall also indicate inter-alia, the extent to which the Contractor's performance under the contract is terminated, and the date from which such termination shall become effective.

Such termination shall not prejudice or affect the rights and remedies accrued and/ or shall accrue after that to the Parties.

Unless otherwise instructed by the NIOT, the Contractor shall continue to perform the contract to the extent not terminated.

All Defect Liability obligations, if any, shall survive despite the termination.

The Services and incidental goods/ works that can be delivered or performed within thirty days after the Contractor's receipt of the notice of termination shall be accepted by the NIOT as per the contract terms.

For the remaining Services and incidental goods/ works, the NIOT may decide:

- a) To get any portion of the balance completed and delivered at the contract terms, conditions, and prices; and/ or
- b) To cancel the remaining portion of the Services and incidental goods/ works and compensate the Contractor by paying an agreed amount for the cost Procurement of Services incurred by the Contractor, if any, towards the remaining portion of the Services and incidental goods/ works.

Frustration of Contract

1) Notice of Frustration Event: Upon a supervening cause occurring after the effective date of the contract, including a change in law, beyond the control of either party, whether as a result of the Force Majeure clause or within the scope of section 56 of the Indian Contract Act, 1872, that makes it impossible to perform the contract within a reasonable timeframe, the affected party shall give a 'Notice of Frustration Event' to the other party giving justification.

2) The parties shall use reasonable efforts to agree to amend the contract as necessary to complete its performance. However, if the parties cannot reach a mutual agreement within 60

days of the initial notice, the Procuring Entity shall issue a 'Notice for Determining the contract' and terminate the contract due to its frustration, as in the sub-clause above.

3) However, the following shall not be considered as such a supervening cause

- a) Lack of commercial feasibility or viability or profitability or availability of funds b) if caused by either party's breach of obligations under this Contract or failure to act in good faith or use commercially reasonable due diligence to prevent such an event.

Closure of Contract

Unless terminated earlier under clauses mentioned above, this Contract shall expire:

- (i) At the end of such a period after the Effective Date as specified in the Contract.
- (ii) Upon successful performance of all obligations by both parties, including completion of Defect Liability obligations and final payment termination and settlements after that, if any, as per clause mentioned above.

62 Indemnities: The Purchase order hereby agrees to indemnify and hold harmless NIOT and its Director, officers and employees, from and against any and all suits, losses, liabilities, damages, claims, settlements, costs and expenses, including reasonable attorneys' fees, based on or arising, directly or indirectly, from:

- i. Breach of this Agreement by the Purchase order
- ii. Not performing the Scope of Work or any other obligation under this Agreement or Tender in accordance with the provisions and schedules of this Agreement or the Tender
- iii. Violation or contravention of any Legislation on the part of the Purchase order
- iv. Any negligence or wilful misconduct of Purchase order, which violates any provision of this Agreement
- v. Infringement of any intellectual property belonging to any third party by the Purchase order
- vi. Any breach of an agreement or misunderstanding between Purchase order and any and all Third Parties due to which a liability arises on NIOT.
- vii. Any claim that any representations or warranties contained herein are not true or Any breach thereof
- viii. Any loss or damage caused by the Purchase order to NIOT, its personnel or property
- ix. Any loss or damage caused by the Purchase order to any and all Third Parties for which a claim against NIOT has arisen
- x. Breach, expiry, cancellation, revocation or invalidity of any and all licenses, permits, authorizations and registrations which the Purchase order is required to obtain, keep valid and comply with under any Legislation in order to perform its obligations hereunder
- xi. Any obligation of the Purchase order performed by NIOT under this Agreement or under any Legislation.

63. Conflict of Interest

(1) An Applicant shall not have a conflict of interest that may affect the Selection Processor the Consultancy (the "Conflict of Interest"). Any Applicant found to have a Conflict of Interest shall be disqualified. In the event of disqualification, the NIOT/ Authority shall forfeit and appropriate the Bid Security as mutually agreed genuine pre-estimated compensation and damages payable to the NIOT/Authority for, *inter alia*, the time, cost and effort of the NIOT/Authority including consideration of such Applicant's Proposal, without prejudice to

any other right or remedy that may be available to the NIOT / Authority here under or otherwise.

(2) The NIOT/Authority requires that the Consultant provides professional, objective, and impartial advice and at all times hold the NIOT/Authority's interests paramount, avoid conflicts with other assignments or its own interests, and act without any consideration for future work. The Consultant shall not accept or engage in any assignment that would be in conflict with its

Prior or current obligations to other clients, or that may place it in a position of not being able to carry out the assignment in the best interests of the NIOT / Authority

(i) An Applicant shall be deemed to have a Conflict of Interest affecting the Selection Process, if the applicant, its consortium member the "Member") or Associate (or any constituent thereof) and any other Applicant, its consortium member or Associate (or any constituent thereof) have common controlling shareholders or other ownership interest; provided that this disqualification shall not apply in cases where the direct or indirect share holding or ownership interest of an Applicant, its Member or Associate (or any shareholder thereof having a shareholding of more than 5 percent of the paid up and subscribed share capital of such Applicant, Member or Associate, as the case may be) in the other Applicant, its consortium member or Associate is less than 5% (five percent) of the subscribed and paid up equity share Capital thereof; provided further that this disqualification shall not apply to any ownership by a bank, insurance company, pension fund or a public financial institution referred to in section 4A of the Companies Act, 1956. For the purposes of this Clause 13.1(c)(i), in direct shareholding held through one or more intermediate persons shall be computed as follows: (aa) where any intermediary is controlled by a person through management control or otherwise,

The entire share holding held by such controlled intermediary in any other person (the "Subject Person") shall be taken into account for computing the shareholding of such controlling person in the Subject Person; and (bb) subject always to sub-clause (aa) above, where a person does not exercise control over an intermediary, which has shareholding in the Subject Person, the computation of indirect share holding of such person in the Subject Person shall be undertaken on a proportionate basis; provided, however, that no such shareholding shall be reckoned under this sub-clause (bb) if the shareholding of such person in the intermediary is less than 26% (twenty six percent) of the subscribed and paid up equity shareholding of such intermediary; or

(ii) A constituent of such Applicant is also a constituent of another Applicant; or

(iii) Such Applicant or its Associate receives or has received any director indirect subsidy or grant from any other Applicant or its Associate; or

(iv) Such Applicant as the same legal representative for purposes of this Application as any other Applicant; or

(v) Such Applicant has a relationship with another Applicant, directly or through common third parties, that puts them in a position to have access to each other's 'information' about, or to influence the Application of either or each of the other Applicant; or

(vi) There is a conflict among this and other consulting assignments of the Applicant (including its personnel and Sub-consultant) and any subsidiaries or entities controlled by such Applicant or having common controlling shareholders. The duties of the Consultant will depend on the circumstances of each case. While providing consultancy services to the NIOT/ Authority for this particular assignment, the Consultant shall not take up any assignment that by its nature will result in conflict with the present assignment; or

(vii) A firm which has been engaged by the NIOT/Authority to provide goods or works or

Services for a project, and its Associates, will be disqualified from providing consulting services for the same project, conversely, a firm hired to provide consulting services for the preparation or implementation of a project, and its Members or Associates, will be disqualified from subsequently providing goods or works or services related to the same project.

64 Clarifications:

Applicants requiring any clarification on the RFP may send their query by email to tenders.niot@gov.in before the tender closing date. The Authority will post the reply to all such queries on the GeM Portal and NIOT Website. All bidders shall visit official GeM portal before uploading of their bid to take note of the changes / corrigendum issued.

The authority reserves the right not to respond to any questions or provide any clarifications, in its sole discretion, and nothing in this RFP shall be construed as obliging the Authority to respond to any question or to provide any clarification.

65 Preference to Make in India

Make in India-Price Preference-MSME Price preference to Local suppliers as per Make in India procurement policy of Govt of India shall refer the order DPIIT Order No. P-45021/2/2017- PP (BE-II) dated 16th September 2020 issued by Ministry of Commerce (Govt. of India)

DefinitionsoftermsapplicabletoMakeinIndiaprocurementpolicyofGovt.ofIndia:-

- a) 'Local content ' means the amount of value added in India which shall be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.
- b) 'Class-I Local supplier' means a supplier provider whose product offered for procurement meets the local content of 50% and above.
- c) 'Class-II Local supplier' means a supplier provider whose product offered for procurement meets the local content of 20% and above but less than 50%.
- d) 'Non-Local supplier' means a supplier provider whose product offered for procurement meets the local content of less than 20%.
- e) 'L1' means the lowest tender or lowest bid or the lowest quotation received in this tender, bidding process or other procurement solicitation as adjudged in the evaluation process as per the tender or other procurement solicitation.
- f) 'Margin of purchase preference 'means the maximum extent to which the price quoted by a local supplier may be above the L1 for the purpose of purchase preference.

I. Purchase preference:-

- a) Among all qualified bids, the lowest bid will be termed as L1. If L1 is from a Class-I local supplier, the contract for full quantity will be awarded to L1.
- b) If L1 bid is not from a Class-I local supplier, 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the Class-I local suppliers, will be invited to match the L1 price for the remaining 50% quantity subject to the local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such Class-I local supplier subject to matching the L1 price. In case such lowest eligible Class-I local supplier fails to match the L1 price or accepts less than the

offered quantity, the next higher Class-I local supplier within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on local suppliers, then such balance quantity may also be ordered on the L1 bidder.

c) In the procurements of goods or works, which are covered by para 3 (b) or reference order and which are not divisible in nature, and in procurement of services where the bid is evaluated on price alone, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:

(i) Among all qualified bids, the lowest bid will be termed as L1. If L1 is from a Class-I local supplier, the contract will be awarded to L1.

(ii) If L1 is not from a Class-I local supplier, the lowest bidder among the Class-I local suppliers, will be invited to match the L1 price subject to local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such Class-I local supplier subject to matching the L1 price.

(iii) In case such lowest eligible Class-I local supplier fails to match the L1 price, the Class-I local supplier with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the Class-I local suppliers within the margin of purchase preference matches the L1 price, then the contract may be awarded to the L1 bidder.

(iv) Only Class-II Local suppliers are not eligible to get price preference in any procurement undertaken by procuring entities.

II. Applicability intenders where contract is to be awarded to multiple bidders:-

In tenders where contract is awarded to multiple bidder's subject to matching of L 1 rates or otherwise, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:

a) In case there is sufficient local capacity and competition for the item to be procured, as notified by the nodal Ministry, only Class I local suppliers shall be eligible to bid. As such, the multiple suppliers, who would be awarded the contract, should be all and only 'Class I Local suppliers'.

b) In other cases, 'Class II local suppliers' and 'Non-local suppliers' may also participate in the bidding process along with 'Class I Local suppliers' as per provisions of this Order. c) If 'Class I Local suppliers' qualify for award of contract for at least 50% of the tendered quantity in any tender, the contract may be awarded to all the qualified bidders as per award criteria stipulated in the bid documents. However, in case 'Class I Local suppliers' do not qualify for award of contract for at least 50% of the tendered quantity, purchase preference should be given to the 'Class I local supplier' over 'Class II local suppliers' / 'Non local suppliers' provided that their quoted rate falls within 20% margin of purchase preference of the highest quoted bidder considered for award of contract so as to ensure that the 'Class I Local suppliers' taken in totality are considered for award of contract for at least 50% of the tendered quantity.

c) First purchase preference has to be given to the lowest quoting 'Class-I local supplier', whose quoted rates fall within 20% margin of purchase preference, subject to its meeting the prescribed criteria for award of contract as also the constraint of maximum quantity that can be sourced from any single supplier. If the lowest quoting 'Class-I local supplier', does not qualify for purchase preference because of aforesaid constraints or does not accept

the offered quantity, an opportunity may be given to next higher 'Class-I local supplier', falling within 20% margin of purchase preference, and so on.

d) To avoid any ambiguity during bid evaluation process, the procuring entities may stipulate its own tender specific criteria for award of contract amongst different bidders including the procedure for purchase preference to 'Class-I local supplier' within the broad policy guidelines stipulated in sub-paras above

III. Minimum local content:-

The 'local content' requirement to categorize a supplier as 'Class-I local supplier' is minimum 50%. For 'Class-II local supplier', the 'local content' requirement is minimum 20%. Nodal Ministry/Department may prescribe only a higher percentage of minimum local content requirement to categorize a supplier as 'Class-I local supplier'! 'Class-II local supplier'. For the items, for which Nodal Ministry Department has not prescribed higher minimum local content notification under the Order, it shall be 50% and 20% for 'Class-I local supplier'! 'Class- II local supplier' respectively.

IV. Verification of Local content:-

a. The 'Class-I local supplier'! 'Class-II local supplier' at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for 'Class-I local supplier'! 'Class-II local supplier', as the case may be. They shall also give details of the location(s) at which the local value addition is made.

b. In cases of procurement for a value in excess of Rs . 10 crores, the 'Class-I local supplier'! 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

c. False declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as maybe permissible under law.

V. Manufacture under license/ technology collaboration agreements with phased indigenization:-

While notifying the minimum local content, Nodal Ministries may make special provisions for exempting suppliers from meeting the stipulated local content if the product is being manufactured in India under a license from a foreign manufacturer who holds intellectual property rights and where there is a technology collaboration agreement / transfer of technology agreement for indigenous manufacture of a product developed abroad with clear phasing of increase in local content.

VI. Classification of MSE'S:-

i) **Micro Enterprises:** Where the investment in plant and machinery or equipment does not exceed 2.5 crore rupees and turnover does not exceed 10 crore rupees,

(ii) **Small Enterprises:** Where the investment in plant and machinery or equipment does not exceed 25 crore rupees and turnover does not exceed 100 crore rupees,

(iii) **Medium Enterprises:** Where the investment in plant and machinery or equipment does not exceed 125 crore rupees and turnover does not exceed 5000 crore rupees

(iv) **Retail & Wholesale traders:** Any bidder who are retailer / Traders claim EMD / Bid security exemption shall refer MinistryOM5/2(2)/2021-E/P&G/Policydtd02.07.2021&5/2(1)2020/E-P&G/Policydtd01.12.2020.

VII. Price Preference to MSEs:-

- a) Among the qualified bids, the lowest bid will be termed as L1, If L1 is class 1 local supplier the contract will be awarded to L1.
- b) In tender, participating Micro and Small Enterprises quoting price within price band of L1 + 15% shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a Micro and Small Enterprise and such Micro and Small Enterprise shall be allowed to supply up to 25 percent of the total tendered value, The 25(twenty five)% quantity is to be distributed proportionally among these bidders, in case there are more than one MSME's within such price band.
- c) In case the tendered quantity of goods cannot be split/ divided MSE quoted price within the band L1+15% may be awarded for full complete supply of total tendered value to MSE.
- d) MSEs participating in the tender must submit valid & authorized copy of certificate of registration with any one of the above agencies. In case of bidders submitting DIC registration certificate shall attach original notarized copy of the DIC certificate.
- e) The MSE's Bidder to note and ensure that nature of services and goods/items manufactured mentioned in MSE's certificate matches with the nature of the services and goods /items to be supplied as per Tender.
- f) The registration certificate issued from any one of the above agencies must be valid as on Bid closing date of the tender. Bidder shall ensure validity of registration certificate in case bid closing date is extended.
- g) The MSEs who have applied for registration or renewal of registration with any of the above agencies / bodies, but have not obtained the valid certificate as on close date of the tender, are not eligible for EMD exemption / preference.
- h) Where any aggregator has been appointed by the Ministry of MSE, themselves quote on behalf of some MSE units, such offers will be considered as offer from MSE units and all such facilities would be extended to these aggregators also.

Commercial Terms Compliance sheet (To be filled by the bidder)

S. No	Particulars	Yes	No	Page Ref
1	Whether EMD for INR 3,30,940/- scanned and uploaded along with the technical document?			
2	Whether every page of the tender document is digitally signed and uploaded in the GeM portal along with the other documents.			
3	Whether Taxes and duties are shown separately in the quote. (Registration numbers for claiming the same to be strictly indicated and the copy of the certificates enclosed)			
4	Whether accepted to submit the LOI acceptance within 15 days from the date of receipt of the LOI?			
5	Whether submission of 5% of the LOI value as Performance/warranty Security is acceptable?			
6	Whether submission of 10% of the supply value as Performance warranty Bank Guarantee is acceptable?			
7	Whether quote is valid for 120 days from the date of tender opening or time specified in the tender document whichever is later?			
8	Whether payment terms of the tender is complied with?			
9	Whether INCOTERM FOR NIOT Chennai is complied with?			
10	Whether the tender is fully complying with tender specification/ Adjustment if no, list out deviations very clearly along with the appropriate reason for the deviation?			
11	Whether item-wise price is quoted as per price bid and quoted price is realistic?			
12	Whether liquidated damage as specified in the NIT accepted unconditionally?			
13	Whether the delivery period as per NIT Clause no.36 is acceptable as per the tender.			
14	Whether the warranty period as per NIT Clause no.42 is acceptable as per the tender.			
15	In case of Dual Bid whether un priced/blank commercial bid(Part-B) is enclosed in part – A (Technical Bid)?			
16	If MSME Certificate is submitted towards EMD then Bid Declaration Form is letter head should be submitted.			
17	Whether confirm price is not revealed in the technical bid			
18	Whether confirm local content as per Annexure VI is attached			
19	Whether confirm % price breakup of local content as per Annexure VII is attached not revealed the price			

20	Whether Technical PQ documents is submitted			
21	Whether Commercial PQ documents (1) The average annual turnover of the bidder during the last three years, ending on '31st March 2025, should be at least INR 66 Lakhs as per the annual report (a. audited balance sheet and b. profit & loss account report) of the 31/03/2025, duly authenticated by a Chartered Accountant/Cost Accountant in India. (2) The net worth of the Bidder firm should not be negative year ending 31.03.2025 and also should not have eroded by more than 30% (thirty percent) in last three years, year ending 31.03.2025. (3) A separate certificate certified by Chartered Accountant for annual turnover and net worth for the last financial three years to be submitted.			

Section II Technical Compliance Sheet (To be filled by the bidder)

S.No	Description	Compliance (Yes/ No)	Remarks
1.	Full filling prequalification criteria as per technical document		
2.	Supply & Commissioning of IP Fixed Bullet Camera - 150 nos as per technical document		
3.	Supply & Commissioning of IP VFL Bullet Camera -20 nos as per technical document		
4.	Supply & Commissioning of 64 Ch 8 SATA NVR – 3 nos as per technical document		
5.	Supply and Installation of 16TB HDD(minimum1 month backup at 4 to 6Mbps) -20 nos as per technical document		
6.	Supply and Installation of 24 Port POE Switch with accessories -10 nos as per technical document		
7.	Supply and Installation of 8 Port POE Switch with accessories -12 nos as per technical document		
8.	Supply and Installation of 4 Port POE Switch with accessories -10 nos as per technical document		
9.	Hot Dipped Galvanised Iron Pole mounting kit & stand for camera		
10.	6U outdoor rack -20 nos as per technical document		
11.	27U Rack –Floor mount rack for server room – 1no as per technical document		
12.	Supply and Installation of 43" Business Display -4 nos as per technical document		
13.	Supply and Installation of 65" Business Display -1 no as per technical document		
14.	CAT 6 UTP Cable -10000 meters as per technical document		
15.	3 Core 1.5 SqmmArmoured Cable - 8000m as per tender requirement		
16.	6 Core OFC Cable Single Mode- 5000m as per technical document		
17.	12 Core OFC Cable Single Mode– 2000m as per tender requirement		
18.	SFP Module -1000BaseLX Single Mode 10KMSFP Transceiver with DD and SC-LC Patch Card50nos as per tender requirement		
19.	Supply and Installation of LIU 12 Port Loaded with Couple and Pigtail25 nos as per tender requirement		
20.	Supply and Installation of LIU 6 Port Loaded with Couple and Pigtail- 5 nos as per tender requirement		

S.No	Description	Compliance (Yes/ No)	Remarks
21.	Fiber Patch Cables / accessories with connector type of SC/LC – 50nos as per tender requirement		
22.	Supply and Installation of HDPE Duct with accessories 5000m as per tender requirement		
23.	Supply and Installation of 1" PVC Pipe & trunking channel with accessories -500m as per tender requirement		
24.	Supply and Installation of Camera Mesh Metal 170nos as per tender requirement		
25.	3-Pole MCB for Racks per tender requirement 30nos as per tender requirement		
26.	Supply and Installation of 3 KVA Online UPS with Battery Backup (30 minutes) 9nos as per tender requirement		
27.	Supply and Installation of UPS Rack 4 Feet From Ground 8 nos as per tender requirement		
28.	Horizontal boring, laying and Refilling per tender requirement 5000m as per tender requirement		
29.	Road cutting and packing, Soft Soil Digging and Refilling with Brick / paver block removing and Refixing 500m as per tender requirement		
30.	Supply and commissioning of all required accessories		
31.	CCTV layout / System architecture / schematic diagram is enclosed		
32.	OEM Authorization for Cameras, NVR and PoE switches		
33.	The CCTV Cameras and NVR shall comply with relevant quality standards and shall be certified by STQC / TEC / BIS, as applicable to the equipment.		
34.	A comprehensive onsite warranty, including support for three (3) years		
35.	Submission of original operating manuals / data sheets of all hardware items supplied		
36.	Bill of material enclosed		
37.	Overall execution of CCTV system as per technical document		
38.	Training of NIOT staffs as per technical document		

OEM AUTHORIZATION LETTER

(To be printed on OEM's Letterhead)

Date: // _____

To,
The [Client/Committee Name]
[Client Address]
[City, State, PIN]

Subject: OEM Authorization for Supply, Installation, Testing & Commissioning of IP
Based CCTV Surveillance System

Dear Sir/Madam,

We, [Name of OEM / Original Equipment Manufacturer], having our registered office at [OEM Address], hereby authorize [Name of Bidder / System Integrator], having office at [Vendor Address], to participate in the tender and to supply, install, test, and commission our products for the project titled: **"Installation of IP-Based CCTV Surveillance System at [Project Site] , Tender Ref No:**

We confirm that:

1. [Vendor Name] is an authorized business partner/system integrator of our company and is fully competent to execute the above project using our products and solutions.
2. We shall extend full technical support, warranty support, and after-sales service assistance to [Vendor Name] and to the **Client** during the warranty and post-warranty period.
3. All products offered by [Vendor Name] are **genuine**, and fully conform to the technical specifications, standards, and certifications as per -----.
4. We assure continued product availability and support for a minimum of **five (5) years** from the date of supply.
5. We further undertake to replace any product declared end-of-life within this period with a model of equivalent or higher specification at no additional cost to the Client. We confirm that the offered solution is covered under our global warranty and product liability policy.

This authorization is issued specifically for the above-mentioned tender and project and is valid for participation and execution thereof.

We look forward to our continued business association.

Yours faithfully,

Signature of Authorized Signatory OEM
Name of Signatory
Designation
Date
Place
Email ID
Mobile No
Telephone No.
Seal of Company:

Signature of Authorized Signatory Bidder
Name of Signatory
Designation
Date
Place
Email ID
Mobile No
Telephone No
Seal of Company

Special Conditions of Contract (SCC)

Annexure- 1

Specification of Supply, Installation, and commissioning of CCTV surveillance system at NIOT

on a Turn-Key Basis

1. Introduction

NIOT Chennai proposed to have a surveillance system in the entire campus and to monitor any un-due occurrence or incident inside the campus., The scope of work shall include supply, technical methodology, requirements, installation, testing, commissioning, Training and maintenance of advanced IP-based CCTV system inside the premises / campus of the National Institute of Ocean Technology (NIOT) Chennai on turnkey basis. The objective is to enhance the security infrastructure, deter unauthorised activities, and provide real-time monitoring and evidence collection. The successful bidder (System Integrator) shall be responsible for delivering a complete, functional, and integrated security surveillance solution, ensuring compliance with the national standards within the specified time.

2. Objective

The primary objectives of this CCTV installation are

1. To ensure 24/7 surveillance of key outdoor areas.
2. To monitor and deter potential security threats.
3. To maintain safety for employees, visitors, and organizational assets.
4. To support incident investigation through recorded footage

3. Scope of the Tender

3.1 Scope of the supplier – General

- 3.1.1 The bidder shall carry out the supply, installation, configuration and commissioning of the CCTV system at NIOT, Chennai, in accordance with the specifications, terms and conditions set out in this Tender document (NIT and SCC).
- 3.1.2 The system shall facilitate viewing of live and recorded images/videos and enable control of all cameras by authorised users, and shall provide interoperability of hardware, operating system, software, networking, database connectivity, reporting and communication protocols.
- 3.1.3 The bidder shall be responsible for the physical installation, configuration and powering of the complete CCTV system. Any additional requirements identified shall be clearly specified in the technical bid and the associated costs included in the total quoted price, and the site visit/survey shall be completed prior to the pre-bid meeting so that such requirements and clarifications can be addressed by NIOT
- 3.1.4 The successful bidder shall provide comprehensive, hands-on training to NIOT staff on operation, preventive maintenance, recording, retrieval and management of CCTV recordings and related system functions.
- 3.1.5 The requirements specified in the tender document are exhaustive. However, the bidder shall visit the site and assess the exact requirement. No additional cost shall be entertained after issuing the work order.
- 3.1.6 Complete bill of materials as specified in the tender should be supplied and installed as per the final agreement between NIOT and the vendor

3.2 Survey of the Site

- 3.2.1 The bidder may visit the NIOT campus, carry out a site survey, understand the layout, and assess feasibility and any additional requirements; the layout of the Campus (Not to Scale) will be provided at the time of such site survey. The bidder shall conduct a detailed site survey, with prior

appointment, and finalise CCTV camera mounting locations so as to minimise blind spots across the campus; selection of fixed or varifocal cameras shall be based on location and coverage requirements. All costs associated with such visits, surveys, bid preparation and submission shall be borne by the bidder, and NIOT shall not be responsible for these costs irrespective of the outcome of the bidding process.

3.2.2 The bidder shall visit the site at NIOT, Pallikaranai, Chennai, to assess existing conditions and feasibility and to estimate the cable-laying requirements, including horizontal boring, road cutting, earthwork excavation, foundations and cable installation.

3.2.3 Camera coverage shall be designed and positioned such that, in the event of any incident, the recorded footage is clear and adequate to identify the incident and persons involved. The bidder shall provide necessary poles, brackets, junction boxes and other mounting accessories, and ensure proper cable routing using suitable protective conduits.

3.3 Laying and Installation of Cables for CCTV System

3.3.1 The methodology adopted by the bidder for laying the cables (including horizontal boring) and the detailed layout of the cables should be attached in the bid document for approval of the NIOT authorities.

3.3.2 The bidder shall supply conduits and lay them with necessary fittings such as bends, joints, reducers and tees, as required, and shall provide all accessories like conduit fittings and mounting clips for proper laying and installation.

3.3.3 The bidder shall supply suitable connectors for interfacing cables with cameras, NVRs, PoE switches and other systems, and shall carry out laying of cables, conduits, casing/capping, mounting brackets, crimping of RJ45 connectors, fixing of PoE switches and erection of poles as part of its scope.

3.3.4 Cable laying shall normally be carried out using the horizontal boring method at a depth of more than 1 m; wherever necessary and approved by NIOT, manual trenching may be adopted, with trench dimensions up to 30 cm width and 75 cm depth as specified in the contract. All required machinery and equipment for digging and laying shall be arranged by the bidder, and existing NIOT cable trenches may be used wherever feasible; any trench opened shall be properly closed after completion of laying.

3.3.5 Proper marking of cable routes and installation of safety signboards/route markers for underground cables shall be ensured; even where horizontal boring is used, the proposed route, entry and exit points shall be clearly marked on the ground and as-built drawings showing final alignment and depth shall be submitted.

3.3.6 All underground OFC and other cables shall be encased in corrugated high-density polyethylene (HDPE) pipes of suitable diameter.

3.3.7 Cutting/chiselling of wall grooves for concealed cable laying and subsequent cementing and finishing of grooved portions, wherever required, shall be under the scope of the bidder.

3.3.8 It shall be the bidder's responsibility to assess requirements for road cutting, manual digging, refilling and defining the cable running path, and no separate payment shall be made for such activities.

3.3.9 The successful bidder shall provide cement concrete foundations for 5-metre galvanised camera poles using suitable M-24 (EN 8 Grade) nuts and bolts; foundation size shall be 600 mm x 600 mm x 1200 mm, including excavation in hard murum or tar/metal roads, with necessary steel reinforcement. Existing lighting poles found suitable may be used for mounting cameras, and the bidder shall provide secure fixing arrangements on such poles.

3.3.10 Wherever digging/road-cutting has been carried out, the bidder shall restore the surface to its original condition, including re-laying and compacting of road surfaces or reinstatement of paver blocks, as applicable.

3.3.11 The successful bidder has to get the clearance from estate section before digging/road cutting work.

3.4 Installation of CCTV Cameras, NVR, PoE Switches, etc.

3.4.1 The bidder shall fix the camera mount/stand/pole at the designated locations, such as walls, ceilings or poles, as approved by NIOT.

- 3.4.2 The bidder shall mount the cameras on the installed mount/stand/pole and provide clear labelling/numbering of all cameras; all necessary accessories for fixing the mount/stand/pole shall be arranged and supplied as specified in the Bill of Quantities.
- 3.4.3 Connection, integration and configuration of cameras with UPS, CCTV system, NVR, display units, PoE switches, storage devices and related equipment shall be the responsibility of the bidder, and all software tools required for such configuration shall be provided to NIOT within the quoted price.
- 3.4.4 The successful bidder shall arrange, at its own cost, all testing equipment, instruments and tools required for installation, testing and maintenance of the CCTV system.
- 3.4.5 The bidder shall install and integrate all supplied hardware and software, including but not limited to racking and networking, configuration of switches, erection of poles, installation of cameras, configuration and commissioning of NVRs, execution and submission of system jobs, installation of required applications and utilities, configuration of environment variables and licence utilities; all applicable software licences shall be issued in the name of “National Institute of Ocean Technology” and shall be perpetual licences.

3.5 Acceptance Testing and Commissioning

- 3.5.1 After successful installation and configuration of all cameras, NVRs, PoE switches and subsystems, the bidder shall carry out end-to-end tests to demonstrate the satisfactory CCTV system performance.
- 3.5.2 Commissioning shall mean end-to-end commissioning of the CCTV system, including testing of live viewing and recording of all cameras from designated monitoring and control points.
- 3.5.3 Upon completion of testing and commissioning by the bidder, the entire system configuration and performance shall be inspected and verified by the authorised NIOT team.
- 3.5.4 The successful bidder, in coordination with the authorised NIOT team, shall prepare a joint inspection and acceptance schedule detailing all activities and checkpoints.

3.6 Documentation

- 3.6.1 The bidder shall provide original manuals and data sheets for all hardware items supplied under the contract.
- 3.6.2 A detailed implementation plan shall be prepared by the bidder and approved by NIOT prior to commencement of installation and configuration activities.
- 3.6.3 Test parameters and acceptance-testing commitments shall be enclosed along with the implementation plan, together with equipment/rack layout plans and CCTV schematic diagrams.
- 3.6.4 The bidder shall submit a technical write-up covering CCTV system design, functioning, architecture diagrams and configuration details, along with detailed process documentation and Standard Operating Procedures (SOPs) after installation and commissioning; any other relevant technical documentation, if required by NIOT, shall also be provided.
- 3.6.5 All documents, manuals, catalogues and information furnished by the bidder under this contract shall become the property of NIOT.

3.7 Training

- 3.7.1 The bidder shall provide training on the CCTV system design, functioning, architecture, configuration and security implementation as deployed at NIOT.
- 3.7.2 Training shall be conducted for NIOT engineers/scientists for a minimum of two days at the NIOT campus, and suitable operating manuals/user guides/Literature shall be provided to NIOT for future reference.

3.8 Completion Period

- 3.8.1 Supply of all items shall be completed within 6 weeks from the date of receipt of the Purchase/Work Order.
- 3.8.2 Installation and commissioning shall be completed within 12 weeks from the date of supply and acceptance of all items, ensuring the entire scope of work is fulfilled within 126 days from the issue of the Purchase/Work Order.
- 3.8.3 Delivery of materials at the NIOT site, including loading and unloading, shall be the responsibility of the bidder.

4. Scope of NIOT

- a. Site access & Facilitation: NIOT shall provide access to all designated locations within the NIOT campus for carrying out surveys, installations, cabling, and related works.
- b. NIOT shall nominate a single point of contact to facilitate communication between NIOT and the bidder/contractor.
- c. NIOT shall review and approve the proposed CCTV camera layout, mounting points, and network design submitted by the bidder.
- d. NIOT shall provide inputs to ensure camera placement meets NIOT's security and monitoring requirements.
- e. NIOT shall share existing trench line and conduit details with the qualified successful bidder, along with locations of existing power supply sources and details of civil/electrical infrastructure. NIOT shall approve any additional minor civil works proposed for proper installation.
- f. NIOT shall inspect and verify the installed CCTV system for compliance with the approved specifications and scope of work.
- g. NIOT shall conduct final acceptance testing in the presence of its representatives.

5. Acceptance testing and commissioning

1. After successful installation and configuration of the Camera, NVR, PoE switches and each and every subsystem, integrating various systems and providing various services, tests shall be conducted for CCTV performance as a whole.
2. Commissioning shall mean end-to-end commissioning of the CCTV system with testing of live viewing and recording of all cameras at different points.
3. Upon the testing and Commissioning by the successful bidder, the entire system Configuration shall be inspected by NIOT authorized team.
4. The successful Bidder, along with NIOT authorized team, shall prepare an Joint inspection and acceptance schedule with details of each activity.

6. Documentation

1. Bidder shall provide the original manuals/data sheets of all hardware items supplied.
2. Implementation plan, to be approved by NIOT before initializing the installation and configuration activity.
3. Test parameters, commitments for acceptance testing to be enclosed along with the implementation plan. Documentation on Equipment/ rack layout plan and CCTV schematic Diagram
4. Technical write-up of the CCTV system design, functioning, and CCTV architecture diagram, configuration details. Detailed process documentation and Standard Operating Procedures (SOPs) shall be submitted after the installation and commissioning of the CCTV system at NIOT. Any other Relevant Documentation if any.
5. All related documents, manuals, catalogs, and information furnished by the bidder shall become the property of NIOT.

7. Scope of Training

1. Training on the building CCTV system design, functioning, CCTV system architecture, Configuration, and Security implementation in NIOT
2. The participants for the training shall be NIOT Engineers/scientists for a minimum of 2 days at NIOT Campus. An operating manual may be provided for the above to NIOT.

8. Bill of Materials

S.No	Description (Please refer detailed specifications)	Qty*	Unit
1.	Supply & Commissioning of IP Fixed Bullet Camera	150	Nos
2.	Supply & Commissioning of IP VFL Bullet Camera	20	Nos
3.	Supply & Commissioning of 64 Ch 8 SATA NVR	3	Nos
4.	Supply and Installation of 16TB HDD(minimum1 month backup at 4 to 6Mbps)	20	Nos

S.No	Description (Please refer detailed specifications)	Qty*	Unit
5.	Supply and Installation of 24 Port POE Switch with accessories	10	Nos
6.	Supply and Installation of 8 Port POE Switch with accessories	12	Nos
7.	Supply and Installation of 4 Port POE Switch with accessories	10	Nos
8.	Hot Dipped Galvanised Iron Pole mounting kit & stand for camera	100	Nos
9.	6U outdoor rack	20	Nos
10.	27U Rack –Floor mount rack for server room	1	No
11.	Supply and Installation of 43" Business Display	4	Nos
12.	Supply and Installation of 65" Business Display	1	No
13.	CAT 6 UTP Cable	10000	Meters
14.	3 Core 1.5 SqmmArmoured Cable	8000	Meters
15.	6 Core OFC Cable Single Mode	5000	Meters
16.	12 Core OFC Cable Single Mode	2000	Meters
17.	SFP Module -1000BaseLX Single Mode 10KMSFP Transceiver with DD and SC-LC Patch Card	50	Nos
18.	Supply and Installation of LIU 12 Port Loaded with Couple and Pigtail	25	Nos
19.	Supply and Installation of LIU 6 Port Loaded with Couple and Pigtail	5	Nos
20.	Fiber Patch Cables / accessories with connector type of SC/LC	50	Nos
21.	Supply and Installation of HDPE Duct with accessories	5000	Meters
22.	Supply and Installation of 1" PVC Pipe& trunking channel with accessories	500	Meters
23.	Supply and Installation of Camera Mesh Metal	170	Nos
24.	3-Pole MCB for Racks	30	Nos
25.	Supply and Installation of 3 KVA Online UPS with Battery Backup (1 hour)	9	Nos
26.	Supply and Installation of UPS Rack 4 Feet From Ground	8	Nos
27.	Horizontal boring, laying and Refilling	5000	Meters
28.	Road cutting and packing, Soft Soil Digging and Refilling with Brick / paver block removing and Refixing	500	Meters

*The quantities/ measurements mentioned are indicative only for the purpose of arriving the Lowest bidder.. The bidder shall provide the unit cost for the items (as mentioned in the requirement) in the price bid. Payment shall be made based on actual utilization, on a pro-rata basis. The quantity may vary + or – 10% based on the site situation.

9. Other Terms and Conditions

1. Only one bid (technical and commercial separately) per bidder, on a turnkey basis, should be submitted. Consortium or Joint Venture bidding will not be accepted. Partial quoted bids will not be considered. The entire solution should be installed by a single bidder only. The bidder shall submit only one option, which is the best suited to meet NIOT requirements. Bids submitted with more options shall be liable to rejection.
2. The Bidder shall carefully examine and understand the specifications/conditions of the tender document and ensure that they have understood all specifications/conditions of the tender document. If no such clarifications are sought in writing, it will be construed that the Bidder has read, understood, and accepted all the terms, conditions, and specifications in the tender document.
3. The Bidder is required to upload a copy of this tender document, with all pages signed by the authorized person, to confirm that the Bidder has read and understood the conditions of this tender document and that the proposal is submitted in full understanding and agreement of the requirements of NIOT.

4. The complete bid shall be without alteration or erasures, except those to accord with instructions issued by the NIOT or as necessary to correct errors made by the bidder, in which case such corrections shall be initialed by the person or persons signing the bid.
5. Signed & stamped compliance sheet of the technical specification of the goods with technical printed literature, along with Bill of Material (BoM) mentioning all the terms & conditions clearly, must be enclosed with the technical bid.
6. The bill of materials indicated is nominal, and any item not specifically mentioned but required for completeness & satisfactory performance of the system shall be considered by the bidder and included in his offer.
7. Bidder has to submit the detailed CCTV layout Diagram / Solution document of the offered system in the technical bid. All the cameras should have the capability to manage, configure, and troubleshoot from the CCTV management system with a single pane of glass or a GUI-based application. The Bidder should install, commission, and demonstrate the complete system as an integrated system.
8. The Bidder should be an OEM / Authorized Dealer/System Integrator of the OEM of the offered product. OEM Authorization Form shall be furnished, containing complete OEM details as given in the tender document. If the bidder is an OEM, a self-declaration certificate mentioning the CPP number shall be submitted.
9. Bidders are advised to mention only one OEM in the tender against each Product. However, if the Bidder is offering a product from more than one OEM for different item, then he has to submit OEM Authorization Form from each OEM offered by the Bidder. Otherwise, the bid would be considered non-responsive and would be summarily rejected.
10. The Bidder should have their registered office and authorized service /spares centre in Chennai; details of the same should be enclosed. The relevant documentary proof towards service centres in Chennai, service support to NIOT for this project, should be uploaded along with the technical documents. The Bidder shall also provide an undertaking from the respective OEMs confirming that they have an authorized service and support centre in Chennai for the following items:
 - a. CCTV Cameras
 - b. Network Video Recorders (NVR)
 - c. PoE switches
11. The OEM/ Bidder should give an undertaking that service & spare support will be provided for at least six (6) years from the date of commissioning of the CCTV system.
12. The bidder shall specify all infrastructure requirements well in advance, prior to the delivery of hardware and software, to ensure proper commissioning and smooth functioning of the equipment. These requirements may include site preparation details, power requirements, CCTV-related provisions, UPS store-room, environmental conditions, and any other necessary arrangements to be made by NIOT at the premises. The bidder shall enclose a detailed infrastructure requirement document along with this bid.
13. The accessories of the CCTV system solution (Accessories such as cables, rack mounting kit, Power Strip in the rack, etc.) required for installation and configuration of the equipment will also be supplied by the vendor. NIOT will not arrange for the same.
14. Bidders shall quote only those products in the bid that are not obsolete in the market and have at least 5 years of residual market life, i.e., the offered product shall not be declared end-of-life by the OEM before this period. A declaration in this regard shall be provided by each OEM.
15. Bidder/OEM must have a dedicated/toll-free telephone number for Service Support. Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
16. Bidder's offer is liable to be rejected if they don't upload any of the certificates/documents sought in the Bid document, and Corrigendum, if any.
17. The CCTV Cameras and NVR shall comply with relevant quality standards and shall be certified by STQC / TEC / BIS, as applicable to the equipment. All supporting documents must be attached with the technical bid. A "No Malicious Code Certificate" shall be provided by the offered OEM for the

CCTV Camera and Network Video Recorder. Declaration from CCTV OEM that the MAC address of the proposed CCTV Cameras is registered in the name of the OEM supplying the cameras.

18. Signed declaration on letterhead from the offered OEM for CCTV Cameras, NVRs, and PoE switches stating that the offered camera models, NVR software & switches are integrable and support the system's configurations.
19. Offered cameras and NVR repair/troubleshooting shall be supported from OEM's India. The letter stating the same from OEMs with the service center address shall be submitted. NVR should have the capability of being scalable and can add up to 64 Cameras (For Viewing and recording). An undertaking by the Bidder in this regard is to be submitted.
20. The Bidder shall provide the detailed (technical specifications, dimensions, brochures, make, model, photo catalogues, BIS certificates, QMS certificates, OEM, Undertaking, Malicious Certificate, and conformance to standards) mentioned about the quoted components and system along with the bid.
21. The successful bidder will also coordinate with NIOT officials and provide assistance for the successful installation, Integration, Maintenance, and functioning of the CCTV system throughout the 3 year period.
22. Bidder shall be responsible for installation/demonstration wherever applicable and for after-sales service during the warranty period of 3 years (1 year standard warranty + 2 years extended warranty).
23. The equipment to be supplied will be insured by the bidder against all risks of loss or damage from the date of shipment till such time it is delivered at the NIOT, Chennai site.
24. Bidder / OEM should use new (unused) components for the quoted solution. Should not use refurbished or used components. In this regard, Bidder shall provide a declaration.
25. If there is any gap between NIOT's requirements and the bidder's/OEM's interpretation or understanding of the proposed solution, it shall be the responsibility of the bidder/OEM to rectify and fulfill such gaps in a timely manner, without any additional cost to NIOT, during the project implementation and warranty period.
26. All requested documents shall be submitted along with the bid. In the event that any supporting documents are missing, the bid will not be considered for the evaluation process.

10. Support conditions

1. The successful bidder has to ensure on-site support for resolving all Hardware and software-related issues, including re-installation, reconfiguration of switches, cameras, and other required software for the proposed solution, during the 3-year warranty period.
2. If any Software and Hardware updates/upgrades are provided by the OEM free of cost, they should be installed & configured by the successful bidder during the proposed solution, during the 3-year warranty period, without any additional cost to the NIOT.
3. Vendor should proactively conduct necessary routine health checks on the CCTV solution so as to keep the infrastructure in a healthy running state during the support period (3 years).
4. Bidder shall Support 24 x 7 x 365 with unlimited incident support (there should not be any limitation on number of onsite/offsite/remote support/service activities from OEM(s) or bidder) and including unlimited upgrades and updates (OEM(s) shall provide necessary updation for patches, bug fixes for software/tools supplied) for the entire 3 Years Warranty period.
5. The Support for the entire solution should be provided by the bidder / OEM with a Mean Time to respond (MTTR) of 12 Hours and a Mean Time to Resolve (MTTR) of 24 Hours. In case of Hardware component(s) failure, replacement should be done within two working days.
6. Bidder (other than OEM) shall have an underpinning contract with the OEM(s) to provide support as stated above.
7. All incidental expenses such as travel, lunch, supporting labor expenses etc. for the installation should be borne by the contractor. All the safety regulations should be ensured and adopted by the contractor and insurance for the manpower to be arranged by the contractor during the execution. Contractor should strictly adhere the safety instructions. NIOT shall not be liable for any damage or compensation payable at law in respect or in consequence of any accident or injury to any workmen or other person in the employment of the contractor or sub-contractor. The necessary insurances for workmen compensation shall be produced to NIOT on demand.

11. Detailed Technical Specifications

11.1 Technical Specifications of CCTV Camera (Fixed / VFL)

S.No	Specification	Our Requirement
1	Imaging Device, Imager Type & Readout, and Resolution	5/6MP Bullet camera Better than or equal to 1/2.8" Progressive Scan, CMOS Sensor or Better
2	Electronic Shutter Range	1/30 s to 1/100000 s or better
3	Lens	4 mm Fixed Lens or 2.8 to 12 mm motorized varifocal,
4	Video Codec/ Compression	H.265, H.264, MJPEG
5	Light sensitivity/ minimum illumination	Colour - 0.01 Lux @ (F1.2 AGC ON) or better Black & white - 0 Lux or Better
6	Backlight Compensation (BLC)	Required: Camera should adjust the BLC feature automatically depending on the light conditions
7	Signal-to-Noise Ratio (SNR)	Minimum 50dB or more
8	Region of Interest	Minimum 4 areas
Video		
9	Day and Night functionality	Automatic/ Manual/ schedule
10	IR illuminator	Built-in IR irradiance minimum 30m
11	Video Resolution & Frame Rate	(2592×1944) @ 20/25 FPS [PAL] or better
12	Wide Dynamic Range	120 dB or better
13	HLC	Should be available
14	Video Streams	At least Triple Stream, individually configurable video streams (H.265+, H.265, H.264). At least 1 stream at 5MP @ 25-30 FPS
Network & Interface		
15	Interface	RJ-45 for 10Base-T/100Base-TX Ethernet&PoE
16	Supported Protocols	TCP/IP, UDP, Multicast, NTP, DDNS, SNMP, QoS, DHCP, IPv4, IPv6, DNS, HTTP, HTTPS, RTSP, SRTP/RTSPS, NAT, RTCP, UPnP, ONVIF, SSH, SMTP
17	ANR (Automatic Network Replenishment)	In case of Network failure, the Camera shall start recording on the SD Card, which can be retrieved back when the network connectivity restores (ANR)
18	Compatible Integration	ONVIF profile S, G & T, The IP Camera make, and model shall appear on the ONVIF Conformant products List
19	Audio Interface	Should have 1 input & 1 output channel
20	Audio Codec	Two-Way Audio Full Duplex with G711 and G726 compression
21	On board Storage	Minimum 256 GB memory card or more
General Camera Features		
22	Operational Temperature	15°C to 60°C
23	Casing	IP67, IK10 with Built-in Surge & Lighting Protection
24	Power	12 V 2 A DC ±25%, PoE (IEEE 802.3af)
25	Certifications	UL 62368-1, CE,FCC,RoHS Directive 2011/65/EU, BIS/IEC 60950-1 /STQC
26	General security	CCTV OEM shall submit the Country of origin (product & company)
27	Authorisation	OEM Authorisation & technical compliance should be attached

11.2 Technical Specifications of 64Ch NVR

SNo	Specification	Our Requirement
1	Operating system	Embedded Linux,GUI
2	Video channels Support	Minimum 64 channels IP Cameras or Better;
3	Storage	Should support 16 SATA hard disk slots and each should support at least 12TB HDD; 192 TB space to be populated in NVR for 90 Days recording in minimum 5MP resolution,including usable space. RAID-0, RAID-1, RAID-5, RAID-6,RAID-10. Should support 16 Hot Swappable Hard Disks
4	Image and Video specification	H.265/H.265+&H.264/H.264+&MJPEG (settings should be available in GUI). Video Resolution support: 12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCI F/2CIF/CIF/QCIF. Matrix Display: 1/3/4/6/8/9/10/16/20/25/36/64 and Sequential The system should be capable of integrating with IP cameras of any brand thatsupportsONVIF 2.0 & above or ONVIF S profile
5	Type of cameras support	Video Output: 1ch VGA and 2ch HDMI or Better;
6	Physical Ports	Audio Interface: 1ch In& 1ch Out; Serial Interfaces: 1No. RS232, 1No. RS485; Network: 2 x RJ45, 10M/100M/1000M LAN port; USB: Minimum 3 ports (2 x USB 2.0, 1x USB 3.0) or better; Option for Alarm interface
7	Recording and playback	Should support schedule, motion, and alarm-based recording; Incoming Bandwidth should be 500 Mbps or better/Outgoing Bandwidth should be 400 Mbps or better. Time/Date-based search mode. Motion Detection-based search.
8	Alarm	TCP/IP, IPv4, IPv6, DHCP,PPPOE, DDNS, Free Matrix DNS, FTP,SMTP, NTP,RTP/RTSP, CIFS/NFS, Network Acceleration, UDP
9	Network Protocols	NVR Should Be Capable of Exporting Files in Native and AVI File Format to FTP and USB. Manual Backup & Scheduled Backup
10	Backup	Should support digital zoom in both Live and Playback. Should support Playback and backup based on event search
11	General	Should support digital zoom in both Live and Playback. Should support Playback and backup based on event search
12	User Interface	Multi-group/users, live view/playback/setup/remote level permission,
13	Redundant power supply	Operating: -10° to +55° C. Humidity: 10% to 90% (non-condensing). AC 110-240V/ DC 12-48V Supply or OEM should give an appropriate power supply & Dual power supply for redundancy
14	Operating Conditions	Operating: -10° to +55° C .Humidity: 10% to 90% (non-condensing). AC 110-240V/ DC 12-48V Supply or OEM should give an appropriate power supply &a Dual power supply for redundancy CE/FCC/UL or equivalent
15	General security	The CCTV OEM should not have been Banned/Blacklisted/suspended with a history by any Govt/PSU/State Govt/Quasi Govt because of security concerns; a Declaration shall be submitted by the OEM. It should have the feature to auto-discover third-party IP cameras, support for ONVIF Profile S or version 2.3,

		and an ANR facility.
16	Compatibility	NVR should be compatible with CCTV for seamless integration

11.3 Technical Specifications of 24Port PoE Switch

SNo	Specification	Our Requirement
1	Interface	Min 24 x 1GbE RJ45 PoE+ Ports Min 4 x 1GbE SFP Combo Ports
2	Performance Specification	Min 41 Mbps or higher throughput, Min 56 Gbps or higher Switching Bandwidth, 8K Mac Address Table, 4K VLAN Group & VLAN ID, Surveillance VLAN, Voice VLAN. 200W to 360W PoE Power Budget (802.3af & 802.3at support)
3	IEEE Network Protocols	IEEE 802.3 at (PoE), IEEE 802.3 at (PoE+)
4	Network Security and Traffic	Broadcast/Multicast/Unicast Storm Control,ACL (IPv4 & v6), ACL on IP and MAC Address; AAA, 802.1X Authentication, 802.1X Port-based Access Control
5	L2 Services	Should support STP, MSTP, and RSTP. 802.3ad Link Aggregation: Supports a maximum of 8groups per device and 8 ports per group.IGMP Snooping v1/v2 /v3.
6	Network Monitoring and Discovery Services	LLDP, LLDP-MED, MLD Snooping,SNMP v1/v2c/v3, SNMP Traps, NTP/SNTP
7	Quality of Service (QoS)	Advanced per-port PoE controls (enable/disable/power limit). Port Mirroring, Many to One Port Mirroring
8	Management	Dual Software (firmware) Images & Configurations. Web-based graphical user interface (GUI)
9	Environmental Conditions	-5 to 50°C 95% maximum relative humidity, non-condensing
10	Certifications	CE, FCC, UL, and MTCTE certificates should be submitted. OEM/OS/Switch should have IEC or ISA or equivalent Indian Cyber Security Certification
11	Authorisation	OEM should have a direct & own service/repair center in the Territory and should have tech support in India
12	Warranty	Min 3 years warranty

11.4 Technical Specifications 12P PoE Switch

SNo	Specification	Our Requirement
1	Interface	Min 12 x 1GbE RJ45 PoE+ Ports Min 2 x 1GbE SFP Combo Ports
2	Performance Specification	Min 24 Gbps or higher Switching Bandwidth. Mac Address Table. 4K VLAN Group & VLAN ID, Surveillance VLAN, Voice VLAN. 350W to 400W PoE Power Budget (802.3af & 802.3at support)
3	IEEE Network Protocols	IEEE 802.3 at (PoE), IEEE 802.3 at (PoE+)
4	Network Security and Traffic	Broadcast/Multicast/Unicast Storm Control,ACL (IPv4 & v6), ACL on IP and MAC Address; AAA, 802.1X Authentication,

		802.1X Port-based Access Control
5	L2 Services	Should support STP, MSTP, and RSTP. 802.3ad Link Aggregation: Supports a maximum of 8groups per device and 8 ports per group. IGMP Snooping v1/v2 /v3.
6	Network Monitoring and Discovery Services	LLDP, LLDP-MED, MLD Snooping, SNMP v1/v2c/v3, SNMP Traps, NTP/SNTP
7	Quality of Service(QoS)	Advanced per-port PoE controls (enable/disable/power limit). Port Mirroring, Many to One Port Mirroring
8	Management	Dual Software (firmware) Images & Configurations. Web-based graphical user interface (GUI)
9	Environmental Conditions	-5 to 50°C 95% maximum relative humidity, non-condensing
10	Certifications	CE, FCC, UL, and MTCTE certificates should be submitted. OEM/OS/Switch should have IEC or ISA, or equivalent Indian Cyber Security Certification
11	Authorisation	OEM should have a direct & own service/repair centre in the Territory and should have tech support in India
12	Warranty	Min 3 years warranty

11.5 Technical Specifications of 8P PoE Switch

SNo	Specification	Our Requirement
1	Interface	8 x 10/100/1000BASE-T PoE ,2 x 100/1000 Mbps SFP ports
2	Performance Specification	Min 20 Gbps or higher Switching Bandwidth. Mac Address Table. 4K VLAN Group & VLAN ID, Surveillance VLAN, Voice VLAN. 115W to 190W PoE Power Budget (802.3af & 802.3at support)
3	IEEE Network Protocols	IEEE 802.3 at (PoE), IEEE 802.3 at (PoE+)
4	Network Security and Traffic	Broadcast/Multicast/Unicast Storm Control,ACL (IPv4 & v6), ACL on IP and MAC Address; AAA, 802.1X Authentication, 802.1X Port-based Access Control
5	L2 Services	Should support STP, MSTP, and RSTP. 802.3ad Link Aggregation: Supports a maximum of 8groups per device and 8 ports per group.IGMP Snooping v1/v2 /v3.
6	Network Monitoring and Discovery Services	LLDP, LLDP-MED, MLD Snooping, SNMP v1/v2c/v3, SNMP Traps, NTP/SNTP
7	Quality of Service(QoS)	Advanced per-port PoE controls (enable/disable/power limit). Port Mirroring, Many to One Port Mirroring
8	Management	Dual Software (firmware) Images & Configurations. Web-based graphical user interface (GUI)
9	Environmental Conditions	-5 to 50°C 95% maximum relative humidity, non-condensing
10	Certifications	CE, FCC, UL, and MTCTE certificates should be submitted. OEM/OS/Switch should have IEC or ISA, or equivalent Indian Cyber Security Certification
11	Authorisation	OEM should have a direct & own service/repair centre in the Territory and should have tech support in India
12	Warranty	Min 3 years warranty

11.6 Technical Specification of External - HDD

S.No	Specification	Our Requirement
1	Capacity	16 TB
2	Make &Model	WD purple/Seagate Skyhawk/Seagate Exos
3	Form Factor	3.5 inch
4	Interface	SATA 6/Gb/s
5	Recording technology	Conventional magnetic recording
6	Cache	512MB Multisegmented
7	Spindle Speed	7200RPM
8	Data transfer rate (Sustained)	285MB/s (272 MiB/s)
9	Average Latency	~4.16 ms
10	MTBF (Mean Time Between Failures)	2 to 2.5 million hours
11	AFR (Annualized Failure Rate)	0.0035
12	Workload Rate	24×7, 8760 hrs/year
13	Nonrecoverable Read Errors	<1 in 10 ¹⁵ bits read
14	Power Consumption (Active Read/Write)	8.9W (Read)/ 7.1W (Write)
15	Power Consumption (Idle)	6.3W W
16	Power Requirements	12V and 5V
17	Operating Temperature	5°C to 60°C
18	Non-Operating Temperature	–40°C to 70°C
19	Shock (Operating,2ms)	40G
20	Shock (Non-Operating,2ms)	200G
21	Hot-Plug Support	Yes (per SATA Rev 3.5)
22	Instant Secure Erase	Yes
23	Warranty	3 Years

11.7 Technical Specification of OFC Module

SNo	Specification	Requirement
1	Transceiver Type	1G Base-LX Single Mode (SM) Transceiver
2	Distance Support	Minimum 10 km or higher
3	Form Factor	SFP, duplex LC connector, hot-pluggable
4	Enclosure	Metal housing
5	Operating Wavelength	1310 nm
6	Power Supply	3.3 V
7	OEM Consistency	All switches and transceivers shall be from the same OEM
8	Documentation	Compliance sheet and OEM-authorized datasheet to be submitted
9	Warranty & Support	Minimum 5-year warranty; on-site installation, configuration, integration, and troubleshooting support. OEM shall have a direct, owned service/repair centre in India

11.8 3 Core 1.5mm sqmmArmoured Cable

SNo	Specification	Our Requirement
1	Applicable Standard	IS: 7098 (PART-1) 1988
2	Voltage Grade	1100 Volts
3	Size (SQ.MM)	3 C × 1.5
4	Type 2XWY	Required
5	Conductor Material	Annealed Plain Copper, Class 2
6	Nominal Area	1.5 SQ.MM
7	Shape of Conductor	Stranded Circular Conductor
8	DC Resistance at 20°C (Max.)	12.1 Ohms/Km
9	Approx. AC Resistance at 90°C (Max.)	15.5 Ohms/Km
10	Insulation Material	Extruded XLPE
11	Nominal Thickness	0.7 mm
12	Minimum Thickness	0.53 mm
13	Core Identification	Red, Yellow, Blue
14	Inner Sheath Material	Extruded PVC Type ST-2
15	Minimum Thickness	0.3 mm
16	Armoring Material & Type	Galvanized Steel Round Wire
17	Nominal Diameter	1.4 ± 0.04 mm
18	Outer Sheath Material	Extruded PVC
19	Type	ST-2 with FR-LSH
20	Max. Pulling Force (By Eye)	225 N
21	Packing Material	Non-returnable Wooden Drum
22	Cable Printing	As per IS-7098 (PART-1) 1988

11.9 Technical Specification of Cat 6 Cable

SNo	Specification / Feature	Requirement
1	Cable Category	Category 6 Unshielded Twisted Pair (UTP)
2	Standards Compliance	ANSI/TIA/EIA-568-C.2, ANSI/TIA-568.2-D, ISO/IEC 11801-1 Category 6
3	Certification	UL Listed and ETL Verified
4	Cable Construction	4 twisted pairs separated by an internal X-shaped, 4-channel full separator
5	Conductor	23 AWG solid bare copper
6	Number of Pairs	4 pairs
7	Insulation Material	High-density polyethylene (HDPE)
8	Outer Sheath	FR-PVC
9	Cable Diameter	6.1 mm nominal
10	Pairing	Two insulated conductors twisted together
11	Rip Cord	Provided
12	Sequential Meter Marking	Provided

13	Operating Temperature Range	-20 °C to +70 °C
14	Packing Length	305 meters per box
22	RoHS Compliance	RoHS compliant
23	General Compliance	Conforming to EIA/TIA-568-C.2 and ISO/IEC 11801

11.10 Technical Specification of 6 Core Fiber Optic Cable-SM

SNo	Specification / Feature	Requirement
1	Fiber Type	9/125 μ m, Single Mode
2	Cable Construction	6-core fiber optic cable
3	Armouring	Corrugated steel tape armoured
4	Core Structure	Central loose tube with jelly compound
5	Strength Member	Glass yarn between steel tape and loose tube
6	Sequential Meter Marking	Provided
7	Standards Compliance	ITU-T G.652D, ISO 11801, IEC 60793-1 / 60794-1-2, Telecordia GR-20-CORE
8	Outer Diameter	7.2 $\pm$ 0.5 mm
9	HDPE Jacket Thickness	1.8 $\pm$ 0.2 mm
10	Crush Resistance	Minimum 2000 N / 100 mm
11	Bend Radius (Short Term)	20D
12	Fiber Design	Matched cladding single mode
13	Operating Wavelengths	Optimized for 1310 nm and 1550 nm
14	Mode Field Diameter (1310 nm)	Nominal 9.2 μ m
15	Cladding Diameter	125 $\pm$ 1.0 μ m
16	PMD	$\leq$ 0.2 ps/km
17	Cable Cut-off Wavelength	1260 nm
18	Attenuation	$\leq$ 0.36 dB/km at 1310 nm, $\leq$ 0.22 dB/km at 1550 nm
19	OEM Eligibility & Authorization	OEM shall have a minimum of 10 years' presence in India in the same business and be ISO-certified. An authorization certificate from the OEM is to be submitted. Cat6 cable, fiber cable, and components shall be from a single OEM

11.11 Technical Specification of 12Core Fiber Optic Cable-SM

SNo	Specification	Requirement
1	Fiber Type	9/125 μ m, Single Mode
2	Cable Construction	12-core fiber optic cable
3	Armouring	Corrugated steel tape armoured
4	Core Structure	Central loose tube with jelly compound
5	Strength Member	Glass yarn between steel tape and loose tube
6	Sequential Meter Marking	Provided
7	Standards Compliance	ITU-T G.652D, ISO 11801, IEC 60793-1 / 60794-1-2, Telecordia GR-20-CORE
8	Outer Diameter	9 $\pm$ 0.3 mm
9	HDPE Jacket Thickness	1.8 $\pm$ 0.2 mm
10	Crush Resistance	Minimum 3000 N / 100 mm
11	Bend Radius (Short Term)	20D

12	Fiber Design	Matched cladding single mode
13	Operating Wavelengths	Optimized for 1310 nm and 1550 nm
14	Mode Field Diameter (1310 nm)	Nominal 9.2 μm
15	Cladding Diameter	125 μm
16	PMD	≤ 0.2 ps/km
17	Cable Cut-off Wavelength	1260 nm
18	Attenuation	≤ 0.36 dB/km at 10 nm, ≤ 0.22 dB/km at 1550 nm
19	OEM Eligibility & Authorization	OEM shall have a minimum of 10 years' presence in India in the same business and be ISO-certified. An authorization certificate from the OEM is to be submitted. Cat6 cable, fiber cable, and components shall be from a single OEM

11.12 Technical Specification of Rack Mount LIU

SNo	Specification	Our Requirement
1	LIU Type and Capacity	6-Port, 19-inch rack-mount LIU, fully loaded with single-mode SC adapters / LC adapters
2	Enclosure Material	Cold-rolled steel body with aluminium front and top covers, powder-coated
3	Mounting Height	Slim 1U rack-mountable unit
4	Splice & Termination Management	Facility for managing fiber splices and terminations
5	Fiber Storage (900 μm)	Built-in magic stickers for storing 900 μm tight-buffered fibers
6	Fiber Storage Capacity	Capable of storing up to 3 meters of 900 μm tight-buffered fiber per adapter
7	Adapter Panel Design	Snap-in locker design for easy replacement of adapter panels supporting various connector types
8	Cable Entry & Protection	Removable rubber grommet for pre-terminated fiber trunk installation, cable protection, and dust minimization
9	Cable Entry Points	Minimum of 4 rubber cable plugs for cable entry
10	Accessibility	Removable front and top covers for easy access to the LIU interior
11	Accessories Supplied	Cable ties, mounting ear screws, and spiral wrap tube

11.13 Technical Specification of Fibre-optic Pigtail

SNo	Specification	Requirement
1	Fiber Type	Single Mode Fiber Optic Pigtail
2	Connector Type	SC / LC Type, Simplex
3	Fiber Core/Cladding	9/125 μm , Single Mode
4	Pigtail Length	1 meter
5	Connector Polish Type	UPC polishing on the connector tip
6	Standards Compliance	Meets TIA/EIA-568. C.3 standards for repeatability
7	Insertion Loss	≤ 0.3 dB (maximum)
8	Return Loss	≥ 50 dB for UPC
9	Mating Cycles	Minimum 200 mating cycles
10	Connector Ferrule Material	Ceramic ferrule
11	Buffer Type	900 μm tight-buffered
12	Operating Temperature Range	-10 $^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$

11.14 Technical Specification SM FO Patch cord

SNo	Specification	Our Requirement
1	Mode	Single Mode LC-LC/LC-SC/SC-SC Duplex Patch Cord
2	Optical fiber patch leads	Single-mode 9/125µm fiber with SC-LC fiber connectors terminated at each end
3	Connector	Pre-radiuses and pre-polished ferrule Ceramic ferrule Duplex Type
4	Insertion Loss	<0.3 db
5	Cable	9/125, SM
6	Return Loss	>= 50dB for UPC
7	Repeatability	<=0.2dB 200 times mating cycle
8	Working Temp	(- 10 °C to + 60 °C)
9	Length	1/2/3 Meter

11.15 Technical Specification Outdoor Rack

SNo	Specification	Our requirement
1	Product Type	Outdoor Pole Mount Rack
2	Material	Mild Steel / Galvanized Steel
3	Protection Class	IP65
4	Dimension	Minimum 06U/550W/500D
5	Construction	Welded
6	Front Door	Lockable door
7	Finish	Powder coating with UV protection
8	Mounting	User-friendly enclosure for Pole or Wall Mounting
9	Standard Color	RAL 7035
10	Size Options	6U
11	Thickness	1.2mm - 1.6mm
12	Canopy	Suitable size canopy protecting junction boxes from water ingress
13	Cable Entry	Minimum 4 entries with glands
14	Shelf	Height-adjustable shelf
15	Layout	Provision for power cable, signal cable, and optical cable access & grounding
16	Structure	Assembled structure; easy to install
17	Frame	Includes 19" standard installation frame
18	Door	Opening Single door; one side hinged, lockable; opening angle >110°
19	Locking	Mechanism Lock knob with padlock provision
20	Environmental Protection	Protection from dust, humidity, rain, moisture, corrosion, and physical attack
21	Equipment Housing Provision	Should support Power Supply, PDU, and LIU
22	Cooling Fan	90 CFM – 2 Nos
23	Power Plug	5/15 Amp Plug with MCB Control – 1 No- 6 Socket Round pin - 5/15 Amp
24	Mounting Hardware	CR Hardware Pack of 20 – 1 No
25	Supporting Documents	Product supporting documents must be submitted (if available)

11.16 Technical Specification of 27U Rack

SNo	Specification	Our requirement
1	27U Network Enclosure Frame-	600W X 800D -STEEL
2	Casters	Set of 4
3	Adjustable Levellers	set of 4
4	Front Door	Glass
5	Rear Door	Metal Door-Vented
6	Side Panels	Vented (Set of 2)
7	Mounting Hardware	Pack of 20
8	FAN Housing Unit	4 FAN 360CFM
9	Horizontal Power Distribution Unit	6 x 5/15A sockets, Round Pin, 230 Volts AC, 32 Amp with Plug
10	Horz. Cable Manager	1U-Loop
11	Rack Standard	Conforms to DIN 41494 or equivalent ISO standard
12	Standard Color	Grey / Black
13	Top and Bottom Cover	Welded to Frame, Vented, and Cable entry/exit cut-outs from Top & Bottom
14	Certification	The manufacturer should have ISO 9001:2015 Certification for Quality Management System and ISO 14001:2015 Certification for Environmental Management System

11.17 Technical Specification of UPS

SNo	Specification	Our requirement
1.	UPS Type	TRUE Online Double Conversion UPS
2.	UPS Rating	3 kVA / 2400W
3.	Input Voltage Range	160 – 280 VAC
4.	Input Frequency	50 Hz $\pm$ 0.05
5.	Input Power Factor	$\geq$ 0.9
6.	Output Voltage	230 VAC $\pm$ 0.1
7.	Output Waveform	Pure Sinewave
8.	Output Frequency	50 Hz $\pm$ 0.001
9.	Bypass	Automatic & Manual Bypass
10.	Transfer Time	Zero Transfer
11.	Display	LCD Display for Input/Output/Load/Battery
12.	Protection	Overload, Short Circuit, Over Temperature
13.	Noise Level	< 50 dB at 1m
14.	Compliance	CE / IEC / RoHS
15.	Warranty	Minimum 3 Years
16.	Battery Type	SMF / VRLA – Sealed Free
17.	Voltage	12V
18.	Capacity	42Ah
19.	Quantity	6 Nos

20.	Design	Valve Regulated Lead Acid (VRLA), Leak-proof
21.	Safety	Flame Arrestor, Shock & Vibration Resistant
22.	Standards	IS 15549 / JIS / IEC

11.18 Technical Specification of Camera Pole

SNo	Specification	Our Requirement
1.	Height of pole	5Mtr.
2.	Size of pole	Top 70mm X Bottom 130mm
3.	Thickness	3mm
4.	Base plate	Atleast220 x 220 x 10mm
5.	Foundation Bolt	M16x600mm
6.	Usage	Camera
7.	Wind loads for design	As per IS-875
8.	Metal protection treatment	Hot Dip galvanized confirming to BSEN ISO 1461 [65-micron thickness]

11.19 Technical Specification of Business Display (43 inches)

SNo	Specification	Our Requirement
1	Size	43 inches
2	Type	50Hz E-LED BLU GO/KR/XP/ZX/ZL/PE: 60Hz E-LED BLU
3	Resolution	3840 x 2160 (4K UHD)
4	Brightness (Typ.)	400nit to 500nit
5	Response Time(G-to-G)	8ms
6	Color Gamut	98%(sRGB)
7	Operation Hour	16 H /7D
8	Screen Curvature	Flat
9	Video	HDMI x 2
10	USB	USB x 1
11	RF	1 Terrestrial / 1 Cable / 1 Satellite
12	External Control	RJ45
13	Wireless	XL: WiFi 5, Bluetooth 5.2
14	Power Supply	AC220-240V 50/60Hz
15	Power Consumption	Max 110 to 200W/h
16	VESA	Screw Size M8
17	Certification	60065, 62368-1, EMC Class B
18	Accessories	Remote Control, Batteries, User Manual, Power Cable
19	HDR10+	Supported
20	Video Engine	Crystal processor 4K
21	Sound Output	20W
22	Speaker Type	2CH (10W+10W)
23	Digital Broadcasting	XL: DVB T2CS2
24	Analog tuner	Yes
25	MBR Support	Yes
26	Multi-Device Experience	Mobile to TV, Sound Mirroring, Wireless TV On
27	Low Vision Support	Audio Description, Zoom Menu and Text, High

		Contrast, SeeColors, Color Inversion, Grayscale, Auto Picture Off
28	Motor Impaired Support	Slow Button Repeat, Remote Control App. for all
29	Panel button lock	Yes
30	USB port lock	Yes
31	Mobile Connection menu	Yes

11.20 Technical Specification of Business Display (65 inches)

SNo	Specification	Our Requirement
1	Size	65 inches
2	Type	50Hz E-LED BLU GO/KR/XP/ZX/ZL/PE: 60Hz E-LED BLU
3	Resolution	3840 x 2160 (4K UHD)
4	Brightness (Typ.)	400nit to 500nit
5	Response Time(G-to-G)	8ms
6	Color Gamut	98%(sRGB)
7	Operation Hour	16 H /7D
8	Screen Curvature	Flat
9	Video	HDMI x 2
10	USB	USB x 1
11	RF	1 Terrestrial / 1 Cable / 1 Satellite
12	External Control	RJ45
13	Wireless	XL: WiFi 5, Bluetooth 5.2
14	Power Supply	AC220-240V 50/60Hz
15	Power Consumption	Max 150 to 250W/h
16	VESA	Screw Size heavy duty M8
17	Certification	60065, 62368-1, EMC Class B
18	Accessories	Remote Control, Batteries, User Manual, Power Cable
19	HDR10+	Supported
20	Video Engine	Crystal processor 4K
21	Sound Output	20W
22	Speaker Type	2CH (10W+10W)
23	Digital Broadcasting	XL: DVB T2CS2
24	Analog tuner	Yes
25	MBR Support	Yes
26	Multi Device Experience	Mobile to TV, Sound Mirroring, Wireless TV On
27	Low Vision Support	Audio Description, Zoom Menu and Text, High Contrast, SeeColours, Color Inversion, Grayscale, Auto Picture Off
28	Motor Impaired Support	Slow Button Repeat, Remote Control App. for all
29	Panel button lock	Yes
30	USB port lock	Yes
31	Mobile Connection menu	Yes

Bid Securing Declaration Form

Date:

E-Tender No:

E-Tender Title:

To,

NATIONAL INSTITUTE OF OCEAN

TECHNOLOGYVELACHERYTAMBARAM MAIN

ROAD,NARAYANAPURAM, CHENNAI 600 100

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am/ We are in a breach of any obligation under the bid conditions, because I/We

- a) Have withdrawn/modified /amended impairs or derogates from the tender, my /our Bid during the period of bid validity specified in the form of Bid: or
- b) Having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder: Signed: (Insert signature of person whose name and capacity are shown)

In the capacity of (insert legal capacity of person signing the Bid Security Declaration) Name: (insert complete name of person signing the Bid Security Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Sole bidder/ Joint Venture /Leader of Consortium)

Dated on _____ day of _____ (insert date of signing) Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Security Declaration must be in the name of all partners to the Joint Venture that submits the bid)

(Note: In case of a Consortium, the Bid Security Declaration to be signed by consortium lead partners that submits the bid)

ANNEXURE - III

MANUFACTURERS' AUTHORIZATION FORM

The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.]

Date: [insert date (as day, month and year) of Bid

Submission]Tender No. : [insert number from Invitation For
Bids]

To : [insert complete name and address of Purchaser]

WHEREAS

We [insert complete name of Manufacturer], who are official manufacturers of [insert type of goods manufactured], having factories at [insert full address of Manufacturer's factories] , do hereby authorize[insert complete name of Bidder]to submit a bid the purpose of which is to provide the following Goods, manufactured by us [insert name and or brief description of the Goods],and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 40 of the NIT, General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer]

Name: [insert complete name(s) of authorized representative(s) of the
Manufacturer]Title: [insert title]

Duly authorized to sign this Authorization on behalf of: [insert complete name of Bidder]

Dated on _____ day of _____, _____[insert date of signing]

*(Not required in case the bidder itself is the manufacturer)

ANNEXURE-IV

PERFORMANCE STATEMENT FORM

Details of similar equipment / systems supplied & installed during past 3 years in India

& Abroad Name of the Firm _____

Order Placed by (full address of Purchaser)

Order Number and date:

Description and Quantity of Ordered:

Equipment Value of Order:

Date of Completion of deliver as Per Contract:

Date of actual Completion of Delivery:

Remarks Indicating reasons for late delivery, if any:

Has the Equipment Been installed/ Working Satisfactory (Attach a Certificate from The purchaser / Consignee)

Name of Contact Person along with Telephone No., FAX No. and e-mail address

Signature and Seal of the manufacturer/Bidder

..... Place :

Date :

Annexure – V

Format for declaration by the Bidder for Code of Integrity & conflict of
interest (On the Letter Head of the Bidder)

No:_____Date_____

To,

(Name & address of the

Purchaser) Sir,

With reference to your Tender No._____dated_____I/We hereby declare
that we shall abide by the Code of Integrity for Public Procurement as mentioned under the Clause
number 55

(a) of NIT of your Tender document and have no conflict of interest.

It is certified that we are not associated, or have been associated in the past, directly or indirectly,
with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting
services for the preparation of the design, specifications, and other documents to be used for the
procurement of the goods to be purchased under this Invitation of Bids / Tender. The details of any
previous transgressions of the code of integrity with any entity in any country during the last three
years or of being debarred by any other Procuring Entity are as under:

a

b

c

We undertake that we shall be liable for any punitive action in case of transgression/ contravention
of this code.

Thanking you,

Yours

sincerely,

Signature

(Name of the Authorized

Signatory) Company Seal

ANNEXURE-VI

Certificate of Local Content (To be enclosed along with Technical Bid)

Tender No. _____

We M/s. _____ (Name of Bidder) hereby certify that we meet the minimum Local content for the Goods and services offered vide our offer/bid No. _____ dated _____ as specified below:

- Class-I Local Supplier with local content of 50% and above
- OR
- Class-II Local Supplier with local content of 20% and above but less than

50% (Tick appropriate category of Local Supplier)

We are not claiming the services such as transportation, insurance, installation, commissioning, training, after sales service (warranty or AMC/CMC support), consultancy and custom clearance including custom duty as local value addition.

We are aware that the false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules (Govt of India) for which we or our successors can be debarred for up to two years as per Rule 151 (iii) of the General Finance Rules along with such other actions as may be permissible under law.

Signed: [insert signature of person whose name and capacity are shown]

In the capacity of [insert legal capacity of person signing the Bid Submission Form]

Name: [insert complete name of person signing the Bid Submission Form]

Duly authorized to sign the bid for and on behalf of: [insert complete name of Bidder]

Dated on _____ day of _____, _____ [insert date of signing]

ANNEXURE-VII
Certificate of Price break up of Local Content

Tender No. _____

We M/s. _____ (Name of Bidder) hereby certify that we meet the minimum Local content for the Goods and services offered vide our offer/bid No. _____ dated _____ as specified below:

- Class-I Local Supplier with local content of 50% and above
OR
- Class-II Local Supplier with local content of 20% and above but less

than 50% (Tick appropriate category of Local Supplier)

Minimum Local content is _____ % as per Price break up given below:

Component of cost Imported product Domestic value addition to product In Foreign Currency US\$ or specify In Rupees

Exchange Rate @ 1 US\$ = Rs In Rupees Location of value addition Goods Material

ii Equipment

iii Total Quoted Price

= (X + Y)

X = (Post (or) Cost should not be mentioned)

Y =

% Local Content = () x 100

We are not claiming the services such as transportation, insurance, installation, commissioning, training, after sales service (warranty or AMC/CMC support), consultancy and custom clearance including custom duty as local value addition. These costs should not be included in Y above.

We are aware that the false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules (Govt of India) for which we or our successors can be debarred for up to two years as per Rule 151 (iii) of the General Finance Rules along with such other actions as may be permissible under law.

Signed: [insert signature of person whose name and capacity are shown]

In the capacity of [insert legal capacity of person signing the Bid Submission Form]

Name: [insert complete name of person signing the Bid Submission Form]

Duly authorized to sign the bid for and on behalf of: [insert complete name of Bidder]

Dated on _____ day of _____, _____ [insert date of signing]

ANNEXURE-VIII

Self-Certification

With reference to Clause No. 1.1.3 of this tender and GoI Ministry of Finance Order No.: F. No. 6/18/2019-PPD dated 23rd July, 2020 on “Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs)” & OM No. F. No. 18/37/2020-PPD dated 8thFebruary, 2021;

It is certified that

We are not a bidder of a country which shares a land border with India. OR

We are a bidder of a country which shares a land border with India, however, we are eligible to bid in any procurement whether of goods or services as we are registered with the Competent Authority as specified in Ministry of Finance (GoI) Order No. 6/18/2019 – PPD dated 23rd July 2020. Copy of valid registration is attached.

Tick as applicable

Place:

Date:

Authorised Signatory Name:

Company Seal

ANNEXURE IX

Self-Certification under preference to Make in India order Certificate

In line with Government Public Procurement Order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020 issued by Ministry of Commerce and Industry and subsequent amendment of the order dt 16th September 2020 we hereby certify that we M/s. are local supplier meeting the requirement of minimum local content (i.e. amount of value addition).....% as defined in above orders for the item/s against Enquiry/Tender No Details of location at which local value addition is made for the item/s are as follows

.....
.....

We also understand false declarations will be in breach of the code of integrity under rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for upto two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Signature of vendor with stamp