

RailTel Corporation of India Limited
(A Mini Ratna PSU under Ministry of Railways)



NOTICE INVITING EXPRESSION OF INTEREST (EOI),

EOI No. : RailTel/EoI/JP/2021-22/01.

Dated 8th January 2021

Expression of Interest (EOI) for **Selection of Systems Integrator & Implementation Partner for bidding for requirement of Customer of RailTel (CoR) for “Supply, installation and commissioning of Surveillance equipments along with cabling on back-to-back basis” from RailTel’s empanelled BA/SI/ Partners.**

Issued by:

**RailTel Corporation of India Ltd.
(A Mini-Ratna PSU under Ministry of Railways)**

**Jaipur Territory Office,
Railway Microwave Complex, Railway Colony,
Ganpati Nagar, Jaipur-302006.**

<https://www.railtelindia.com>

Disclaimer

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

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

SCHEDULE OF EVENTS

1	EOI Document Availability	EOI document can be downloaded from website http://www.railtelindia.com or https://railtel.enivida.com
2	Cost of the EOI Document	NIL
3	Earnest Money Deposit (EMD) to be submitted along with EOI	Rs. “1,50,00,000” (Rupees One crore Fifty Lakhs Only) by way of digital transaction at railtel.enivida.com portal.
4	Last date of submission of response to EOI	1100 Hrs on 11.01.2022
5	Date & Time of Opening of EOI	1130 Hrs on 11.01.2022
6	Mode of Submission of Bid	E-Bid submission only at https://railtel.enivida.com
7	Contact Person for Bid	Sh. Pankaj Singh, Senior Manager Contact No. 7087039937 Sh. S.S. Jeph, Dy. General Manager Contact No. 9001044112

Note: RailTel reserves the right to change the above dates at its discretion.

1. About RailTel

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

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

2. Introduction:

With reference to above subject, RailTel Corporation of India Ltd. (RCIL) calls your attention for Selection of Systems Integrator & Implementation Partner for bidding for requirement of Customer of RailTel (CoR) for “Supply, installation and commissioning of Surveillance equipments along with cabling on back-to-back basis” from RailTel’s empanelled BA/SI/ Partners.

- a. The rates should be inclusive of taxes, however, breakup of all the taxes charged by the BA/SI shall be shown separately. The BA/SI has to submit the breakup of all taxes at the time of submission of their “Tax invoices” also. The BA/SI has also to submit their GSTIN No. at the time of submissions of their “Tax invoices”. In addition to it, the BA/SI should submit a copy of the GSTIN registration certificate for the states wherever applicable. In case of the successful BA/SI is not liable to be registered under CGST/IGST/UTGST/SGST Act, the RailTel shall deduct the applicable GST from his/their bill under RCM and deposit the same to the concerned tax authority. Vendors should file GST return and transfer credit of GST in RailTel account as per GST procedure.
- b. The offers shall be opened on above said date, in the presence of those BA/SI, who choose to be present. If the above said date happens to be a holiday, the same shall be opened on the next working day.

3. Background Information:

- 3.1.** No information of this document or related to this work shall be shared with anyone without permission of RCIL-Northern Region office.

4. Scope of Work:

The broad responsibility of the BA/SI under the scope of work for this EOI shall be as per Appendix-A and the RFP floated by CoR with Reference no. F3.3(358)/RISL/PUR/2021/5118, dt.10.12.2021 on portal www.eproc.rajasthan.gov.in.

5. Selection Criteria:

- 5.1.** Stage-I: Sealed proposals of only those BA/SIs will be entertained who are empaneled with RCIL. The PBG for empanelment should be valid on opening of the bids. A copy of PBG should be submitted along the technical-commercial bid.

- 5.2.** Stage-II:

Qualification criteria:

1. There should not be any ongoing or past arbitration case(s) between RailTel/REL/Customer of RailTel and Applicant for the past two years on the last date of submission of EOI. Self-Declaration is to be submitted in this regard.
2. The bidder should submit 'Acknowledgment Copy' of Income Tax Returns for last three Financial Years (FY 2017-18, FY 2018-19 & FY 2019-20)
3. The bidder should have a valid Corporate Identification Number (CIN), Permanent Account Number (PAN), Taxpayer Identification Number (TIN), Goods and Service Tax Identification Number (GSTIN), on the last date of submission of EOI. Copy of documents in this regard is to be submitted.
4. The Applicant should not be blacklisted by any State / Central Government / PSU / Autonomous Body on the last date of submission of EOI. Self-Declaration is to be submitted in this regard.
5. MAF in the name of RailTel from the Original Equipment Manufacturing (OEM) proposed by the bidder.
6. No Deviation Certificate as per annexure-2A.
7. The BA/SI shall submit a notarized affidavit (as per annexure-3) on a non-judicial stamp paper stating that they meet the 100% compliance requirements & all their statements/documents

submitted along with the bid are true and factual. Standard format of the affidavit to be submitted by the bidder is given in the EOI document. Non submission of an affidavit by the bidder shall result in rejection of his/their bid and it shall be mandatorily incumbent upon the BA/SI to identify, state and submit the supporting documents duly self-attested by which they/he are/is qualifying the work experience/ Qualifying Criteria mentioned in the EOI Document. It will not be obligatory on the part of EOI Evaluation Committee to scrutinize beyond the submitted document of the BA/SI as far as his qualification for the EOI is concerned.

8. The BA shall submit a declaration/undertaking regarding their compliance with GOI Ministry of Finance OM No. F. No. 6/18/2019-PPD, dated 23-07-2020 regarding restrictions on procurement from a bidder of a country which shares a land border with India. Undertaking on the bidder's Letter Head duly Signed and stamped by the Authorized Signatory.

9. Minimum Qualifying Work Experience Required: IT/ITES/Telecom work order in Government/PSU with minimum value of Rs.4 Crore in maximum 4 work orders.

10. The bidder should have a minimum average turnover of Rs. 10 Crore in previous three Financial years as per audited balance sheet (i.e. 2017-18, 2018-19 & 2019-20). The bidder has to submit the audited balance sheets for the last three financial years in support of their eligibility.

11. Payment terms will be back to back basis and as mentioned in RFP document. Payment will be released on receipt of Tax Invoice for the work and after RailTel receives the payment from Customer for the same work.

12. The service level arrangement will be back to back and all the penalties deducted by Customer will be passed on to selected bidder on actual/proportionate basis. RCIL shall be awarding the contract only after receiving confirm order from the Customer.

13. Bidders are requested to quote their best prices considering the fact that price negotiation, if required with the vendor will be passed on to the selected bidder.

14. The bidders are required to submit copy of the EOI document duly digitally signed by Authorized Signatories as a token of acceptance of terms & conditions of contract.

5.3. Stage-III : Those BA/SIs whose PBG is in place and those are complying with Stage-II, will be further evaluated on Technical & Financial Parameter as per the Technical & Price Bid- Annexure-1A. The BA/SIs meeting the Technical compliance of RailTel's customer 100% & quoting the lowest price (excluding GST) shall be adjudged 'Successful BA/SI'. No upward price revision is allowed at a later stage excluding GST.

6. Duration of Engagement:

- (a) The contract will be governed on back to back basis as per the contract between RailTel and CoR however RailTel reserves the right to negotiate the prices for the bidding without any obligation to the bidder.

7. RCIL's Right to Accept/Reject Bids :

RCIL reserves the right to accept or reject any bid and annul the bidding process or even reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected BA/SI or BA/SIs or without any obligation to inform the affected BA/SI or BA/SIs about the grounds of rejection by RailTel.

8. Bid Validity:

Bids shall remain valid for a period of 90 days from the date of opening of the bids. RCIL shall at its own discretion reject a bid validity of shorter period. The same shall be further extended, if need be based on request from the purchaser.

9. Bid Currency:

The prices in the bid document shall be expressed in Indian Rupees only and price figures quoted wherever will be considered as expressed in Indian Rupees only.

10. Modification and/or Withdrawal of Bids:

Bids once submitted will be treated, as final and no modification will be permitted. No correspondence in this regard will be entertained.

No BA/SI shall be allowed to withdraw the bid after the deadline for submission of bids.

If successful BA/SI withdraw or back out from the bid commitments, the BG submitted in reference to empanelment, shall be forfeited and all interests/claims of such BA/SI shall be deemed as foreclosed/rejected. Such BAs withdrawal may be considered for further action as may be deemed fit by RailTel.

11. Variation in Quantity Clause:

Variation in quantity will be governed as per the contract between RailTel and CoR.

12. Negotiation:

- RCIL reserves the right to negotiate with the successful BA/SI in order to make the bid competitive.
- Bidders are requested to quote their best prices considering the fact that price negotiation, if required with the vendor will be passed on to the selected bidder.

13. Payment Terms:

- Payment will be on back-to-back basis i.e. after payment is received from Customer of RailTel. As per commercial clauses No. 5 (a) of Appendix “G”.
- Payment terms will be back to back basis and as mentioned in RFP document. Payment will be released on receipt of Tax Invoice for the work and after RailTel receives the payment from Customer for the same work.

14. Agreement & Restrictions on ‘Transfer of Agreement’:

- (1) A pre-bid agreement shall need to be signed for successful completion of the contract at the quoted/ agreed rate as per RailTel terms & conditions.
- (2) The successful BA/SI shall not assign or transfer its right in any manner whatsoever under the agreement to a third party or enter into any agreement for subcontracting and/or partnership relating to any subject matter of the agreement to any third party either in whole or in any part i.e. no subcontracting/partnership/third party interest shall be created with reference work/project assigned through this EoI.

15. Delivery Timeline:

As per Annexure VI to Appendix ‘G’

16. Liquidated Damage (LD):

- RCIL reserve the right to impose the LD in case of delay in supply attributable to RCIL at the rate of **1.5% per week** or part thereof for delayed stores which the successful BA/SI has failed to deliver within the period agreed for delivery in the contract subject to **maximum of 15% of the total PO** value. In certain categories of procurement, LD can also be levied on the successful BA/SI of the store supplied partially within the scope of the order/contract that could not be put to use due to late delivery of the remaining stores.
- The service level arrangement will be back to back and all the penalties deducted by Customer will be passed on to selected bidder on actual basis.

17. Liability under Agreement/EoI:

Except as provided in the EoI document, neither party i.e. RCIL and successful BA/SI shall be liable to each other party or any other party by virtue of termination of the EoI for any reason whatsoever for any claim for loss or profit or on account for any expenditure, investment, leases, capital improvements or any other commitments made by the other party in connection with their business made in reliance upon or by virtue of the EoI document.

18. Suspension, Revocation or Termination of agreement /EoI :

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

19.2. RailTel may, without prejudice to any other remedy available for the breach of any conditions of EoI, by a written notice of Three month issued to the Successful BA/SI at its registered office, terminate/or suspend the agreement under any of the following circumstances:

19.2.1 The successful BA/SI failing to perform any obligation(s) under the agreement.

19.2.2 The successful BA/SI failing to rectify, within the time prescribed, any defect as may be pointed out by RailTel

19.2.3 The successful BA/SI going into liquidation or ordered to be wound up by competent authority.

19.2.4 If the successful BA/SI is wound up or goes into liquidation, it shall immediately (and not more than a week) inform about occurrence of such event to RailTel in writing. In that case, the written notice can be modified by RailTel as deemed fit under the circumstances. RailTel may either decide to issue a termination notice or to continue the agreement by suitable modifying the conditions, as it feels fit under the circumstances.

19.2.5 It shall be the responsibility of the successful BA/SI to maintain the agreed Quality of Service, even during the period when the notice for surrender/termination of agreement is pending and if the Quality of Performance of Solution is not maintained, during the said notice period, it shall be treated as material breach liable for termination at risk and consequent of successful BA/SI and Performance Bank Guarantee submitted along with empanelment letter shall be forfeited, without any further notice. Also, the PBG submitted for the EoI in context shall be forfeited, without any further notice.

19.2.6 Breach of non-fulfillment of Agreement conditions may come to the notice of RailTel through complaints or as a result of the regular monitoring. Wherever considered appropriate RailTel may conduct an inquiry either suo-moto or on complaint to determine whether there has been any breach in compliance of the terms and conditions of the agreement by the successful BA/SI or not. The successful BA/SI shall extend all reasonable facilities and shall endeavor to remove the hindrance of every type upon such inquiry. In case of default by the selected BA/SI in successful implementation and thereafter maintenance of work as per the conditions mentioned in the Scope of work and EoI, the PBG of successful BA/SI available with RailTel will be forfeited.

19. Dispute Settlement:

In case of any dispute concerning this order both the successful BA/SI and RailTel shall try to settle the same amicably through mutual discussion/negotiation. Any unsettled dispute shall be settled in terms of Indian Act of Arbitration and conciliation 1996 or any amendment thereof. Place of arbitration shall be New Delhi. Arbitrator shall be appointed by Chairman & Managing Director, RailTel Corporation of India Limited.

20. Force-Majeure under Agreement/EoI :

If at any time, during the continuance of this agreement, the performance in whole or in any part, by either party i.e RCIL and successful BA/SI, of any obligation under this is prevented or delayed, by reason of war, or hostility, acts of the public enemy, civic commotion, sabotage, Act of State or direction from Statutory Authority, explosion, epidemic, quarantine restriction, strikes and lockouts (as are not limited to the establishments and facilities of the successful BA/SI, fire, floods, natural calamities or any act of God (hereinafter referred to as event), provided notice of happenings of any such event is given by the affected party to the other, within 21 Calendar days from the date of occurrence thereof, neither party shall, by reason of such event, be entitled to terminate the agreement, nor shall either party have any such claims for damage against the other, in respect of such non-performance or delay in performance. Provided service under the agreement shall be resumed as soon as practicable, after such event comes to an end or ceases to exist. The decision of RailTel as to whether the service may be so resumed (and the time frame within which the service may be resumed) or not, shall be final and conclusive. However, the force-majeure events noted above will not in any way cause extension in the period of the agreement.

21. Labour Laws to be complied by the successful BA/SI:

The successful BA/SI shall obtain a valid licence under the Contract Labour (RA) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971, before the commencement of the work, and continue to have a valid license until the completion of the work. The BA/SI shall also comply with the provisions of the Inter-State Migrant Work-men(Regulation of Employment and Conditions of Service) Act 1979. The successful BA/SI shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996. Any failure to fulfil these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work.

22. EoI Submission Details :

You are requested to submit the complete ‘Technical and Commercial Proposal’ online using e-Procurement Portal <https://railtel.enivida.com>.

23.1. Single Packet Bid system will be followed for this EOI with a Lowest Cost Based Selection Criterion. The bid should have a ‘Index’ at the starting and all pages of bid should be serially numbered and should be traceable as per the ‘Index’.

23.2. The bidder should take into account any Corrigendum to this EOI document that may have been published before submitting their bids. The bid is to be submitted online i.e. at RailTel’s e-Tender portal (www.railtel.enivida.com). Physical / Offline submitted bid will not be entertained.

23.3. Bidders in their own interest are advised to submit the bid well before the last date and hence to avoid any inconvenience at the last moment.

23.4. The bidder may modify or withdraw its bid after submission, prior to the deadline date

and time prescribed for the bid submission in this EOI. Bid withdrawal notices received after the bid submission deadline will be ignored, and the submitted bid will be deemed to be a validly submitted bid. No bid may be withdrawn in the interval between the bid submission last date and the expirations of the bid validity period. Withdrawal of a bid during this interval may result in the forfeiture of the bidders EMD or cancellation of empanelment of BA/SI with RailTel.

23.5. An Organization / Bidder can submit only 'One Bid'. Submission of multiple bids by a bidder will lead to rejection of all of its bids.

23.6 Tenderer shall quote in SOR provided in eNivida portal only. In case the schedule of requirements quoted by the tenderer is incomplete with reference to the EOI document, the offer is liable to be rejected.

23.7 The rates quoted should be written both in words and figures. The unit of rates should be in the metric system and as per EOI specification/schedule. In case of difference between words and figures, the rate in words will prevail. If there is a discrepancy between the unit price and total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected by the purchaser accordingly.

23.8 BA/SI are requested to go through all the conditions of the EOI document and note that, by submitting the EOI documents, duly signed, they have accepted these conditions and undertake to abide by these conditions (unless specifically disagreed to clause wise).

23.9 ATTESTATION OF ALTERATION: No scribbling is permissible in the EOI documents. EOI containing erasures and alterations in the EOI documents are liable to be rejected. Any correction made by the BA/SI in his/their entries must be signed (not initialed) by him/them.

In reference to the above, Bid Proposal should consist of:

- a. Copy of PBG submitted to RailTel in reference to their empanelment letter and LOA copy. The PBG should be valid on the date of opening of bids for the EOI in context.
- b. PBG as EMD
- c. Price Bid in the format as per Annexure-1A
- d. Documents as per clause 4 b.

23. Compliance to the EOI Document:

- BA/SIs should ensure compliance to all clauses of this EOI. Any deviation will lead to rejection of the EOI of BA/SI.
- The bidders are required to submit copy of the EOI document duly signed by Authorized Signatories as a token of acceptance of terms & conditions of contract.
- All the terms and conditions of the RFP document of the customer will be applicable back to back to the selected BA.
- Prebid agreement will be executed at the quoted/accepted rates with the selected partner for the project to ensure the fulfilment of the commitment.

24. Amendment to EOI Document

- 24.1.** At any time prior to the deadline for submission of bids, RailTel, may, for any reason can modify the EOI document by an amendment. All the amendments made in the document would be informed by displaying on RailTel's (www.railtelindia.com) website only. The Bidders are advised to visit the RailTel website on regular basis for checking necessary updates. RailTel also reserves the rights to amend the dates mentioned in this EOI for bid process. RailTel may, at its discretion, extend the last date for receipt of bid.

Annexure-1A

Price Bid

As per Excel Sheet

Appendix- 'A'

SCOPE OF WORK

1. Details of Work:

The broad scope of work for the SI is to supply, installation and commissioning of items with OFC laying as per Bill of Material mentioned in **Annexure-1** and technical specifications mentioned in **Annexure-2** with five years Warranty & maintenance support services at different locations across the State of Rajasthan.

The rate quoted by the bidder for each item mentioned in the tender shall remain valid for purchase by COR for a period of two years and may be extended as per RTPP Act on mutual acceptance on same terms and conditions subject to price fall clause.

The detailed scope of work for the SI during the period of contract/ engagement would include the following: -

A. Supply of ordered Items/equipments and LAN

- a) Items/equipments for the order quantity are to be supplied as per specifications defined in Annexure-2.
- b) All item/hardware should be supplied with all the required installation material/accessories/software (wherever required) for proper installation at respective site.
- c) The supply needs to be completed as per chapter 4, Clause 2 (Project Activity, Deliverables, Timelines and Payment) of this bidding document.
- d) In case of any equipments/items supplied under this contract as mentioned in Annexure-1 (Bill of Material) become non-functional, SI shall be responsible for onsite replacement/repair of the equipment as per SLA at no additional cost to tendering authority.

B. Installation & commissioning of Items /equipments and LAN

The selected bidder / SI shall be required to:

B.1 Local Area Network & Cabling.

- a) Laying Structured LAN in specified locations/offices.
- b) Design and Commission the Local Area Network with following features:
 - Network Points shall be marked using proper labels on the faceplates, I/O Boxes, Patch Panels.
 - Deploy the patch panels, I/O boxes, plates, etc. as per the OEM standard practice.
 - Electrical, LAN & OFC cables shall be routed with proper casing or conduits.
 - Supply & Installation of any other item required for successful commissioning of LAN
- c) The SI shall not cause any damage to premises/buildings and property and will perform restoration if any damage occurs. All the expenditure done towards this will have to be borne by SI.
- d) Prepare and provide Network Diagram of commissioned LAN, OFC and Electrical

cabling.

B.2 Installation and Commissioning of items/equipments

- a) Install all items procured under this contract and integrate with NVR(s) and switches provided by COR.
- b) Ensure all cameras should be integrated with existing VMS i.e. Nicevision Net 3.1 or higher installed at respective Divisional Data Centers.
- c) Supply & Installation of any other item required for successful commissioning.
- d) The SI shall configure all the equipment for end-to-end user access to applications/services.
- e) Upon successful installation of all the Hardware/ Software, the SI shall submit installation reports (in original) duly verified by the respective nodal officer/ end-user.
- f) COR upon receipt of all installation reports (wherever applicable) from the SI, shall validate the same as per work order/ bidding document for its compliance.

C. Warranty & Maintenance Support services for equipments and LAN & Electric cabling

The successful bidder shall

- Provide comprehensive onsite five year warranty for all items from date of successful installation for the period mentioned in technical specification(s).
- Provide comprehensive Maintenance Support Services (MSS) for all supplied Hardware/Software with allied items. This involves comprehensive maintenance of all component covered under the contract including repairing, replacement of parts, modules, sub-modules, assemblies, sub-assemblies, spares part, Network, OFC and Electric cables etc. to make the system operational.
- Provide troubleshooting of problems which arise and resolve the same.
- Provide a standby equipment of similar or higher configuration when the fault is not rectifiable until the faulty equipment is repaired and replaced.
- In case faulty equipment is not repairable, the SI need to replace the same with similar or higher configuration
- Depute a Project Manager who will be responsible for coordinating with all stake holders
i.e COR, CCC FMS Team and District Level Officer of CoR etc. for successful implementation and smooth functioning of maintenance Support services
- Provide details of Single Point of Contact (Name, Phone No, Email-ID etc) so FMS Team of COR and District Level officer/Nodal officer can lodge a complaint. SI shall provide a complaint number for each complaint for which a proper record would be maintained.
- Maintain complaint register with tracking of all intermediate status upto the closure. Monthly verified copy (by DLO/Nodal officer) of complaint register should also be submitted by SI to COR along with the quarterly invoice for payments.
- SI has to resolve the problem reported within the stipulated period as per SLA mentioned in this tender document.

2. Project Activity, Deliverables, Timelines and payment:

The milestones, deliverables, time schedule and payment for the implementation of the project would be as follows: -

- a) The time specified for delivery and other activities as mentioned in the table below shall be deemed to be the essence of the contract and the SI shall arrange supplies and provide the required services within the specified period.
- b) "T" is the event marking COR issuing the work order for supply, installation and commissioning of various items under Rate Contract to the selected bidder(s) i.e. SI. Payments to the selected bidder, after successful completion of the target milestones (including specified project deliverables), would be made as under:

Sr. No.	Project Activity/ Scope of Work	Deliverables (Reports/ Docs./ Infra.)	Timelines	Payable Amount
1.	Signing Agreement and submission of Security Deposit	Agreement and Security Deposit	Within 15 days from date of issue of LoI .	-NIL-
2.	Submission of final Network Design for the specified area.	Final Network Diagram along with all deliverables defined in clause "Survey and Overlay access Network Design" & LAN Network	T+15 days for draft Network design. Additional seven days for final Network design incorporating the required changes as suggested by COR	-NIL-
3.	Supply ,Installation and Commissioning of Item(s) as mentioned in Work order.	Delivery challan & Installation Report OEM Warranty Certificates for Hardware & software items (wherever applicable)	T+ 90 days	80%

		VMS Integration Report by TPA/COR Network Diagram of commissioned LAN,OFC & Electical cabling.		
4.	Maintenance support services	Quarterly SLA report	After end of each Quarter (Starting from the Date of Commissioning)	Remaining 20% will be equally spread over 5 years payable in 20 Quarters after making adjustments of penalties as per SLA/Performan ce

Note: The quantities mentioned in the Bid are indicative/ approx. and shall only be used for the purpose of financial bid evaluation which can be increased & decreases by the procuring entity and the Payments shall be made as per actual quantities supplied, installed and commissioned as per scope of work. No minimum quantity is guaranteed in rate contract.

- c) The supplier/ selected bidder request for payment shall be made to the purchaser in writing, accompanied by invoices describing, as appropriate, the goods delivered and related services performed, and by the required documents submitted pursuant to general conditions of the contract and upon fulfilment of all the obligations stipulated in the Contract.
- d) The supplier/ selected bidder may request for payment to the purchaser on completion of work in each city.
- e) Due payments may be made promptly by the purchaser.
- f) The currency or currencies in which payments shall be made to the supplier/ selected bidder under this Contract shall be Indian Rupees (INR) only.
- g) All remittance charges will be borne by the supplier/ selected bidder.
- h) In case of disputed items, the disputed amount shall be withheld and will be paid only after settlement of the dispute.
- i) Payment in case of those goods which need testing shall be made only when such tests have been carried out, test results received conforming to the prescribed specification.
- j) Any penalties/ liquidated damages, as applicable, for delay and non-performance, as mentioned in this bidding document, will be deducted from the payments for the respective milestones.
- k) Taxes, as applicable, will be deducted/ paid as per the prevalent rules and regulations.

GENERAL TERMS AND CONDITIONS OF TENDER & CONTRACT:

1) Extension in Delivery Period and Liquidated Damages (LD)

- a) Except as provided under clause “Force Majeure”, if the supplier/ selected bidder fails to deliver any or all of the Goods or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in (d) below for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in the bidding document and/ or contract. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to clause “Termination”.
- b) The time specified for delivery in the bidding document shall be deemed to be the essence of the contract and the supplier/ selected bidder shall arrange goods supply and related services within the specified period.
- c) Delivery and installation/ completion period may be extended with or without liquidated damages, if the delay in the supply of goods or service is on account of hindrances beyond the control of the supplier/ selected bidder.
 - i. The supplier/ selected bidder shall request in writing to the Purchaser giving reasons for extending the delivery period of service, if he finds himself unable to complete the supply of goods or service within the stipulated delivery period or is unable to maintain prorated progress in the supply of goods or service delivery. This request shall be submitted as soon as a hindrance in delivery of goods and service occurs or within 15 days from such occurrence but before expiry of stipulated period of completion of delivery of goods and service after which such request shall not be entertained.
 - ii. The Purchaser shall examine the justification of causes of hindrance in the delivery of goods and service and the period of delay occurred due to that and recommend the competent authority on the period of extension which should be granted with or without liquidated damages.
 - iii. Normally, extension in delivery period of goods and service in following circumstances may be considered without liquidated damages:
 - a. When delay has occurred due to delay in supply of drawings, designs, plans etc. if the user department or COR was required to supply them to the supplier of goods or service provider as per terms of the contract.
 - b. When delay has occurred in supply of materials etc. if these were required to be supplied to the supplier or service provider by the COR as per terms of the contract.
 - iv. If the competent authority agrees to extend the delivery period/ schedule, an amendment to the contract with suitable denial clauses and with or without liquidated damages, as the case may be, shall be issued. The amendment letter shall mention that no extra price or additional cost for any reason, what so ever beyond the contracted cost shall be paid for the delayed supply of goods and service.
 - v. It shall be at the discretion of the concerned authority to accept or not to accept the supply of goods and/ or services rendered by the contractor after the expiry of the stipulated delivery period, if no formal extension in delivery period has been applied and granted. The competent authority shall have right to cancel the contract with respect to undelivered goods and/ or service.

- vi. If user department or CORs in need of the good and/ or service rendered after expiry of the stipulated delivery period, it may accept the services and issue a letter of extension in delivery period with usual liquidated damages and denial clauses to regularize the transaction.
- d) In case of extension in the delivery and/ or installation/ completion/ commissioning period is granted with full liquidated damages, the recovery shall be made on the basis of following percentages of value of goods and/ or service which the supplier/ selected bidder has failed to supply/ install/ complete : -

No.	Condition	LD %*
a.	Delay up to one fourth period of the prescribed period as per scope of work and deliverable	2.5 %
b.	Delay exceeding one fourth but not exceeding half as per scope of work and deliverable	5.0 %
c.	Delay exceeding half but not exceeding three fourth as per scope of work and deliverable	7.5 %
d.	Delay exceeding three fourth of the prescribed period as per scope of work and deliverable	10.0 %

- i. Fraction of a day in reckoning period of delay in supplies, successful installation and completion of work shall be eliminated, if it is less than half a day.
- ii. The maximum amount of liquidated damages shall be 10% of the work order value.
- iii. *The percentage refers to the payment due for the associated works/ goods/ service.

2) Authenticity of Equipment

- a) The selected bidder shall certify (as per Annexure-9) that the supplied goods are brand new, genuine/ authentic, not refurbished, conform to the description and quality as specified in this bidding document and are free from defects in material, workmanship and service.
- b) If during the contract period, the said goods be discovered counterfeit/ unauthentic or not to conform to the description and quality aforesaid or have determined (and the decision of the Purchase Officer in that behalf will be final and conclusive), notwithstanding the fact that the purchaser may have inspected and/ or approved the said goods, the purchaser will be entitled to reject the said goods or such portion thereof as may be discovered not to conform to the said description and quality, on such rejection the goods will be at the selected bidder's risk and all the provisions relating to rejection of goods etc., shall apply. The selected bidder shall, if so called upon to do, replace the goods etc., or such portion thereof as is rejected by Purchase Officer, otherwise the selected bidder shall pay such damage as may arise by the reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the Purchase Officer in that behalf under this contract or otherwise.
- c) Goods accepted by the purchaser in terms of the contract shall in no way dilute purchaser's right to reject the same later, if found deficient in terms of the this clause of the contract.

3) Warranty

- a) The bidder must supply all items with warranty as mentioned in respective technical specifications of Annexure-2 after the goods, or any portion thereof as the case may be, have been delivered to, installed and accepted at the final destination(s) indicated in the work order/bidding document. However, if delay of installation is more than a month's time due to the reasons ascribed to the bidder, the warranty shall start from the date of last successful installation of the items covered under the PO.
- b) At the time of goods delivery, the selected bidder shall submit a certificate/ undertaking from all the respective OEMs mentioning the fact that the goods supplied are covered under comprehensive warranty & support for the prescribed period.
- c) The purchaser shall give a written notice to the selected bidder stating the nature of any defect together with all available evidence thereof, promptly following the discovery thereof. The purchaser shall afford all reasonable opportunity for the selected bidder to inspect such defects. Upon receipt of such notice, the selected bidder shall expeditiously cause to repair the defective goods or parts thereof or replace the defective goods or parts thereof with brand new genuine/ authentic ones having similar or higher specifications from the respective OEM, at no cost to the Purchaser. Any goods repaired or replaced by the selected bidder shall be delivered at the respective location without any additional costs to the purchaser.
- d) If having been notified, the selected bidder fails to remedy the defect within the period specified, the purchaser may proceed to take within a reasonable period such remedial action as may be necessary, in addition to other recourses available in terms and conditions of the contract and bidding document.
- e) During the warranty period, the bidder shall also be responsible to ensure adequate and timely availability of spare parts needed for repairing/replacement of the supplied goods.
- f) The warranty on supplied software media, if any, should be at least 90 days.

4) Patent Indemnity

- a) The supplier/ selected bidder shall, subject to the Purchaser's compliance with sub-clause (b) below, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of: -
 - i. the installation of the Goods by the supplier/ selected bidder or the use of the Goods in the country where the Site is located; and
 - ii. the sale in any country of the products produced by the Goods.Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the supplier/ selected bidder, pursuant to the Contract.
- b) If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to above, the Purchaser shall promptly give the supplier/ selected bidder a

notice thereof, and the supplier/ selected bidder may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

- c) If the supplier/ selected bidder fails to notify the Purchaser within thirty (30) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.
- d) The Purchaser shall, at the supplier's/ selected bidder's request, afford all available assistance to the supplier/ selected bidder in conducting such proceedings or claim, and shall be reimbursed by the supplier/ selected bidder for all reasonable expenses incurred in so doing.
- e) The Purchaser shall indemnify and hold harmless the supplier/ selected bidder and its employees, officers, and Subcontractors (if any) from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the supplier/ selected bidder may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Purchaser.

SPECIAL TERMS AND CONDITIONS OF TENDER & CONTRACT

1) Payment Terms and Schedule

As mentioned in Chapter 4, Clause 2, Project Activity, Deliverables, Timelines and payment terms.

2) Service Level Standards/ Requirements/ Agreement

The purpose of this Service Level Agreement (hereinafter referred to as SLA) is to clearly define the levels of service which shall be provided by the selected bidder to the tendering authority for the duration of this contract.

The tendering authority will regularly review the performance of the services being provided by the selected bidder and impose penalties if any deficiency is found in the services.

It is acknowledged that service levels may change as service needs evolves over the course of the contract. The present SLAs have been worked out on the basis of current expectations. Service levels between the purchaser and bidder can be revised in view of experience gained during the project period. The experience gained during this period will be used to fine tune the SLAs, including parameters, targets and penalties, if required. Any changes to the levels of services provided during the project period will be requested, documented and negotiated in good faith by both parties. Either party can request a change. Changes will be documented as an addendum to the contract.

Service Level:

a) For all items mentioned in Bill of Material

Sr. No.	Time to resolve complaint after lodging the complaint	Penalty (in Rs.) (Per quantity of item(s) for every 4 hours passed after expiry of 24 hours of lodging the complaint)
A. Pole Electric Cabling		
1.	Within 24 hours of lodging the complaint	No penalty
2.	> 24 hours of lodging the complaint	250/-
B. All Items other than Pole Electric Cabling.		
3.	Within 24 hours of lodging the complaint	No penalty
4.	> 24 hours of lodging the complaint	100/-

Penalty Capping:

Total penalties in a Quarter shall not be higher than Quarterly Agreed Revenue.

If the penalty/ damages in two consecutive Quarters is equal to or more than 1% of the ordered

value, COR may forfeit the PSD and pending payment mentioned at chapter 4, Clause 2 (Project Activity, Deliverables, Timelines and Payment) which has to be paid as quarterly payment & may terminate the contract.

3) Change Requests/ Management

- a) An institutional mechanism will be set up for taking decisions regarding requests for changes. The Purchase Committee will set up a Change Control Committee with members from the procurement agency and the selected bidder. If it is unable to reach an agreement, the decision of the Purchase Committee will be final.
- b) COR may at any time, by a written order given to the bidder, make changes within the general scope of the Agreement in any one or more of the following: -
 - ✓ Designs, specifications, requirements which software or service to be provided under the Agreement are to be specifically developed and rendered for COR.
 - ✓ The method of deployment, shipping or packing.
 - ✓ Schedule for Installation Acceptance.
 - ✓ The place of delivery and/or the services to be provided by the bidder.
- c) The change request/ management procedure will follow the following steps: -
 - ✓ Identification and documentation of the need for the change - The information related to initiator, initiation date and details of change required and priority of the change will be documented by COR.
 - ✓ Analysis and evaluation of the Change Request - Impact of the change in terms of the estimated effort, changed schedule, cost and the items impacted will be analysed and documented by the bidder.
 - ✓ Approval or disapproval of the change request – COR will approve or disapprove the change requested including the additional payments for software development, quoted man-month rate shall be used for cost estimation, efforts of all technical resources- project manager, analyst, software developer, testing engineer, database architecture etc shall be taken into account for total man-month estimation to carry out the s/w development resulting from the change request. For all technical resources irrespective of their experience and specialisation, the quoted man-month rate shall be used. Efforts of support staff shall not be taken into consideration for this purpose.
 - ✓ Implementation of the change – The change will be implemented in accordance to the agreed cost, effort, and schedule by the selected bidder.
 - ✓ Verification of the change - The change will be verified by COR on implementation of the change request.
- d) All changes outside the scope of supplies agreed to herein which may have likely financial implications in terms of the overall cost/ time of the project shall be undertaken by SI only after securing the express consent of COR. In the event that the consent of COR is not received then the change will not be carried out.
- e) While approving any change request, if required, COR may ask the bidder to deploy the required resources on-site.
- f) If any such change outside the scope of supplies agreed to herein causes an increase or decrease in cost of, or the time required for, firm's performance of any provisions under the Agreement, equitable adjustments shall be made in the Agreement Price or Delivery Schedule, or both, and the Agreement shall accordingly be amended. Any claims by firm for adjustment under this must be asserted within 30 (thirty) days from the date of SI receiving the COR change order which shall not be unreasonably withheld or delayed.

4) Price Fall Clause:

If the rate contract holder quotes / reduces its price to render similar goods, works or services at a price lower than the rate contract price to anyone in the State at any time during the currency of the rate contract, the rate contract price shall be automatically reduced with effect from the date of reducing or quoting lower price, for all delivery of the subject matter of procurement under that rate contract and the rate contract shall be amended accordingly. The firms holding parallel rate contracts shall also be given opportunity to reduce their price by notifying them the reduced price giving them fifteen days time to intimate their acceptance to the revised price. Similarly, if a parallel rate contract holding firm reduces its price during currency of the rate contract, its reduced price shall be conveyed to other parallel rate contract holding firms and the original rate contract holding firm for corresponding reduction in their prices. If any rate contract holding firm does not agree to the reduced price, further transaction with it, shall not be conducted.

5) Approvals for work to be undertaken as per scope of work

Bidder has to coordinate and liaison with concerning department and local authorities for approvals and the fees will be paid by COR as per actual on monthly basis. The following is indicative list of approvals and clearances required for executing the project and not limited to:

- i. Installation of camera
- ii. Providing electrical connection to Camera(s)

6) Non Compliance of Item

If the successful bidder fails to comply the technical specification as per RFP, after bid finalization then his Rate contract for that item may be terminated and work may be assigned to L2 bidder or vice versa.

Annexure-1: BILL OF MATERIAL (BoM)

Sl. No.	Item Name	Unit	Indicative Quantity (No.)	MAF Required
1.	Full HD IP Dome Camera with IR	Nos.	2500	Yes
2.	Full HD IP Bullet Camera with IR	Nos.	1500	Yes
3.	Full HD IP Box Camera	Nos.	6000	Yes
4.	Full HD IP PTZ Camera with IR	Nos.	5000	Yes
5.	Camera Specialized for PCR VAN with NVR	Nos.	100	Yes
6.	Rugged Tablet-Windows-7 inch	Nos.	100	Yes
7.	Workstation with 3 Monitors	Nos.	20	Yes
8.	Professional LED Panel	Nos.	50	Yes
9.	Display Controller (2x2)	Nos.	10	Yes
10.	1KVA UPS	Nos.	1000	Yes
11.	NVR (POE) with 4 TB HDD (4 Port)	Nos.	1000	Yes
12.	Access Switch(4port)	Nos.	500	Yes
13.	12 U Wall Mount indoor Network Rack	Nos.	100	Yes
14.	9 U Wall Mount indoor Network Rack	Nos.	800	Yes
15.	Cat 6 Ethernet cable in casing and conduiting (with laying)	Meters	150000	Yes
16.	Information Outlets	Nos.	1000	Yes
17.	LIU/JC Box with LC connector	Nos.	100	Yes
18.	24 Port Patch Panel	Nos.	100	Yes
19.	Cat 6 Patch Chord (1 meter)	Nos.	2000	Yes
20.	2 meter fiber patch chords (LC-LC/SC-LC)	Nos.	200	Yes
21.	6 core ADSS OFC (with laying including splice and making termination at ends in casing and conduit)	Meters	15000	Yes
22.	6 core Armoured OFC (with laying including splice and making termination at ends in casing and conduit) Underground	Meters	6000	Yes
23.	Electric Point Wiring	Meters	100000	Yes
24.	Electric armoured cable with laying and termination end	Meters	150000	Yes
25.	8 Meter Pole erection with foundation & earthing	Nos.	500	Yes
26.	Pole shifting with Foundation & earthing	Nos.	200	No

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ANNEXURE-2: TECHNICAL SPECIFICATIONS

Note: All the specifications below are minimum specifications and higher specifications shall be used wherever necessary/ required. Deviation on higher side shall only be considered and no extra weightage shall be awarded for such deviations.

1. Item No. 1: Full HD IP Dome Camera with IR

S. No.	Features	Description	Compliance (Yes/No)
1.	Make		
2.	Model		
3.	Camera Type	Dome	
4.	Standard	ONVIF Profile S Compliant	
5.	Integration with existing VMS	SI has to ensure integration with existing VMS i.e. Nicevision Net 3.1 or higher. Necessary SDK of camera for integration to be provided by SI	
6.	Certification	BIS, FCC, RoHS and CE/UL	
7.	Edge Storage	microSD/microSDHC/microSDXC slot.	
8.	Image Sensor	1/2.8"CMOS or better	
9.	Resolution	4MP (Min.2560 x 1440) at 25 FPS or better	
10.	Max. Mbps Constrained VBR	6	
11.	Compression	H.264,H.265, H.265+	
12.	Streaming	Min. Triple compressed stream (Individually Configurable)	
13.	Audio	Full Duplex, Audio Input/ Output 1 Ch	
14.	Alarm	1 digital input, 1 Relay output	
15.	Audio Compression	G.726/G.711	
16.	Pre/Post Alarm buffer	Yes	
17.	ID/Password	Multi-level user ID/Password	
18.	Encryption	HTTP(SSL/TLS)/HTTPS	

19.	Video Authentication	For video authentication, classic watermarks/digital signature must be embedded in Video Stream along with name, time, date stamped which cannot be tampered	
20.	Physical Layer	10/100 base Tx Ethernet or better	

21.	Protocol	Minimum TCP, HTTP, RTP, RTSP, SNMP, IPV4, IPv6,FTP, NTP,DHCP, RTP, SMTP, UDP, UPnP, ICMP, IGMP, SSL, QoS, 802.1x, DNS, DDNS,HTTPS	
22.	IP Support	Static/dynamic or both	
23.	Remote Administration	Remote configuration and status using web based tool	
24.	System Update	Remote system update over Network using web client	
25.	PC Client	PC application client with a channel recording feature support	
26.	Web Client	Viewer through HTTP(min.)System Configuration Setting / Streaming	
27.	Simultaneous Connection	3 users or more	
28.	Lens Type	3 mm or better	
29.	Dynamic Noise Reduction	3D	
30.	Auto Exposure	Automatic Level Control/Electronic Level Control	
31.	Illumination	Color: 0.3 lux, F1.3 or better B/W: 0.04 lux, F1.3 or better At 30 IRE Inbuilt IR (30 mtrs. or better)	
32.	Signal Process	Digital Signal Process	
33.	Motion Detection Zones/ privacy zones	3 or higher	
34.	Auto Gain Control	Yes	
35.	Back Light Compensation	Yes	
36.	Electronic Shutter	1/3s to 1/10000s or better	
37.	White Balance	Yes	
38.	Wide Dynamic Range	min 120 db(Sensor based)	
39.	Day and Night	Yes (as per minimum illumination)	
40.	Operating	0 °C to 60 °C	

	Temperature	Humidity 20-80% RH(non-condensing)	
41.	Power Source	Suitable adaptor shall be supplied to make the equipment work on 230V $\pm 10\%$, 50Hz and Power over Ethernet (POE 802.3 af/at)	
42.	Internet protocol Support	IPv4 and IPv6	
43.	Housing	Poly Carbonate/ Aluminium Construction with IP-67 pole mount/wall mount accessories , Power and data cables	
44.	Anti-Vandalism rating	IK10	
45.	Edge based video content Analytics	Video motion detection and Active tampering alarm	
46.	Accessories	All required accessories at site for installation of camera to be provided like Pole Mount, Corner brackets, Connector kit, screws etc.	
47.	Warranty & Maintenance Support	5 Years Comprehensive onsite OEM Warranty & Maintenance support	

Item No. 2: Full HD IP Bullet Camera with IR

S. No.	Features	Description	Compliance (Yes/No)
1.	Make		
2.	Model		
3.	Camera Type	Bullet	
4.	Standard	ONVIF Profile S Compliant	
5.	Integration with existing VMS	SI has to ensure integration with existing VMS i.e. Nicevision Net 3.1 or higher Necessary SDK of camera for integration to be provided by SI	
6.	Certification	BIS, FCC, RoHS and CE/UL	
7.	Edge Storage	microSD/microSDHC/micro SDXC	
8.	Image Sensor	1/2.8" CMOS or better	
9.	Resolution	4MP (Min.2560 x 1440) at 25 FPS or better	
10.	Max. Mbps Constrained VBR	6	
11.	Compression	H.264,H.265, H.265+	
12.	Streaming	Min. Triple compressed stream(Individually Configurable)	
13.	Audio	Full Duplex, Audio Input/ Output 1 Ch	
14.	Alarm	1 digital input, 1 Relay output	
15.	Audio Compression	G.726/G.711	
16.	Pre/Post Alarm buffer	Yes	
17.	ID/Password	Multi-level user ID/Password	
18.	Encryption	HTTP(SSL/TLS)/HTTPS	
19.	Video Authentication	For video authentication, classic watermarks/digital signature must be embedded in Video Stream along with name, time, date stamped which cannot be tampered	
20.	Physical Layer	10/100 base Tx Ethernet	

21.	Protocol	Minimum TCP, HTTP, RTP, RTSP, SNMP, IPV4, IPv6,FTP, NTP,DHCP, RTP, SMTP, UDP, UPnP, ICMP, IGMP, SSL, QoS, 802.1x, DNS, DDNS, HTTPS	
22.	IP Support	Static/dynamic or both	
23.	Remote Administration	Remote configuration and status using web based tool	
24.	System Update	Remote system update over Network using web client	
25.	PC Client	PC application client with a channel recording feature support	
26.	Web Client	Viewer through HTTP(min.)System Configuration Setting / Streaming	
27.	Simultaneous Connection	3 users or more	
28.	Lens Type	7 to 30 mm or better, F1.3 motorised autofocus and varifocal or better	
29.	Dynamic Noise Reduction	3D	
30.	Auto Exposure	Automatic Level Control/Electronic Level Control	
31.	Illumination	Color: 0.3 lux, F1.3 or better B/W: 0.04 lux, F1.3 or better At 60 IRE Inbuilt IR (60 mtrs. or better)	
32.	Signal Process	Digital Signal Process	
33.	Motion Detection Zones/ privacy zones	3 or higher	
34.	Auto Gain Control	Yes	
35.	Back Light Compensation	Yes	
36.	Electronic Shutter	1/3s to 1/10000s or better	
37.	White Balance	Yes	
38.	Wide Dynamic Range	min 120 db (Sensor based)	

39.	High Light Compensation	Yes	
40.	Day and Night	Yes (as per minimum illumination)	
41.	Operating Temperature	0 °C to 60°C Humidity 20–80% RH (non-condensing)	
42.	Power Source	Suitable adaptor shall be supplied to make the equipment work on 230V \pm 10%, 50Hz and Power over Ethernet (POE 802.3 af/at)	
43.	Internet protocol Support	IPv4 and IPv6	
44.	Housing	Poly Carbonate/ Aluminium Construction with IP-67 Including pole mount/wall mount accessories , Power and data cables Polycarbonate bird control spike	
45.	Anti-Vandalism rating	IK10	
46.	Edge based video content Analytics	Video motion detection and Active tampering alarm	
47.	Accessories	All required accessories at site for installation of camera to be provided like Pole Mount, Corner brackets, Connector kit, screws etc.	
48.	Warranty & Maintenance Support	5 Years Comprehensive onsite OEM Warranty & Maintenance support	

Item No. 3: Full HD IP Box Camera

S. No.	Features	Description	Compliance (Yes/No)
1.	Make		
2.	Model		
3.	Camera Type	Box	
4.	Standard	ONVIF Profile S Compliant	
5.	Integration with existing VMS	SI has to ensure integration with existing VMS i.e. Nice vision Net 3.1 or higher Necessary SDK of camera for integration to be provided by SI	
6.	Certification	BIS, FCC, RoHS and CE/UL	

7.	Edge Storage	microSD/microSDHC/micro SDXC slot supporting memory card for min. 256 GB (Min. Class 6 or higher, Card to be included). In the event of failure of connectivity to the network storage the camera shall record video locally on the SD card automatically. After the connectivity is restored these recordings shall be automatically merged with the network storage recording such that no manual intervention is required to transfer the SD card based recordings to network storage.	
8.	Image Sensor	1/2" CMOS or better	
9.	Resolution	4MP (Min.2560 x 1440) at 25 FPS or better	
10.	Max. Mbps Constrained VBR	6	
11.	Compression	H.264,H.265, H.265+	
12.	Streaming	Min. Triple compressed stream (Individually Configurable)	
13.	Audio	Full Duplex, Audio Input/ Output 1 Ch	
14.	Alarm	1 digital input, 1 Relay output	
15.	Audio Compression	G.726/G.711	
16.	Pre/Post Alarm m buffer	Yes	
17.	ID/Password	Multi-level user ID/Password	
18.	Encryption	HTTP(SSL/TLS)/HTTPS	
19.	Video Authentication	For video authentication, classic watermarks/digital signature must be embedded in Video Stream along with name, time, date stamped which cannot be tampered	
20.	Physical Layer	10/100 base Tx Ethernet	
21.	Protocol	Minimum TCP, HTTP, RTP, RTSP, SNMP, IPV4, IPv6,FTP, NTP,DHCP, RTP, SMTP, UDP, UPnP, ICMP, IGMP, SSL,QoS, 802.1x, DNS, DDNS, HTTPS	
22.	IP Support	Static/dynamic or both	
23.	Remote Administration	Remote configuration and status using web based tool	
24.	System Update	Remote system update over Network using web client	
25.	PC Client	PC application client with a channel recording feature support	
26.	Web Client	Viewer through HTTP(min.)System Configuration Setting / Streaming	
27.	Simultaneous Connection	5 users or more	
28.	Lens Type	10-50 mm, F1.6 or better, C/CS Mount, Varifocal, p-iris and IR Corrected	
29.	Dynamic Noise Reduction	3D	

30.	Auto Exposure	Automatic Level Control/Electronic Level Control	
31.	Illumination	Color: 0.3 lux, F1.6 or better B/W: 0.04 lux, F1.6 or better At 30 IRE	
32.	Signal Process	Digital Signal Process	
33.	Motion Detection Zones/ privacy zones	3 or higher	
34.	Auto Gain Control	Yes	
35.	Back Light Compensation	Yes	
36.	Electronic Shutter	1/10000s to 1/3s or better	
37.	White Balance	Yes	
38.	Wide Dynamic Range	min 120 db (Sensor based)	
39.	High Light Compensation	Yes	
40.	Day and Night	Yes (as per minimum illumination)	
41.	Operating Temperature	0 °C to 60 °C Humidity 20–80% RH (non-condensing)	
42.	Power Source	Suitable adaptor shall be supplied to make the equipment work on 230V \pm 10%, 50Hz and Power over Ethernet (POE 802.3 af/at)	
43.	Internet protocol Support	IPv4 and IPv6	
44.	Housing Outdoor	<ul style="list-style-type: none"> • Poly Carbonate/ Aluminium Construction with IP-67 • Having sun-Shield in-built • Polycarbonate bird control spike • Including pole mount/wall mount accessories , Power and data cables • Anti-Vandalism rating -IK 10 • IR – 50 Mtr. 	
45.	Edge based video content Analytics	Video motion detection and Active tampering alarm	
46.	Accessories	All required accessories at site for installation of camera to be provided like Cat6 Patch Cord (7 Mtr), Pole Mount, Corner brackets, Connector kit, screws etc.	
47.	Warranty & Maintenance Support	5 Years Comprehensive onsite OEM Warranty & Maintenance support	

Item No. 4: Full HD IP PTZ Camera with IR

S. No.	Features	Description	Compliance (Yes/No)
1.	Make		
2.	Model		
3.	Camera Type	PTZ	
4.	Standard	ONVIF Profile S Compliant	
5.	Integration with existing VMS	SI has to ensure integration with existing VMS i.e. Nice vision Net 3.1 or higher Necessary SDK of camera for integration to be provided by SI	
6.	Certification	BIS, FCC, RoHS and CE/UL	
7.	Edge Storage	microSD/microSDHC/micro SDXC slot with memory card minimum 256 GB.(Min. Class 6 or higher, Card to be included). In the event of failure of connectivity to the network storage the camera shall record video locally on the SD card automatically. After the connectivity is restored these recordings shall be automatically merged with the network storage recording such that no manual intervention is required to transfer the SD card based recordings to network storage.	
8.	Image Sensor	1/2.8" CMOS or better	
9.	Resolution	4MP (Min.2560 x 1440) at 25 FPS or better	
10.	Max. Mbps Constrained VBR	10	
11.	Compression	H.264,H.265, H.265+	
12.	Streaming	Min. Triple compressed stream (Individually Configurable)	
13.	Audio	Full Duplex, Audio Input/ Output 1 Ch	
14.	Alarm	1 digital input, 1 Relay output	
15.	Audio Compression	G.726/G.711	
16.	Pre/Post Alarm buffer	Yes	
17.	ID/Password	Multi-level user ID/Password	
18.	Encryption	HTTP(SSL/TLS)/HTTPS	
19.	Video Authentication	For video authentication, classic watermarks/digital signature must be embedded in Video Stream along with name, time, date stamped which cannot be tampered	
20.	Physical Layer	10/100 base Tx Ethernet	
21.	Protocol	Minimum TCP, HTTP, RTP, RTSP, SNMP, IPV4, IPV6,FTP, NTP,DHCP, RTP, SMTP, UDP, UPnP, ICMP, IGMP, SSL,QoS, 802.1x, DNS, DDNS, HTTPS	
22.	IP Support	Static/dynamic or both	

23.	Remote Administration	Remote configuration and status using web based tool	
24.	System Update	Remote system update over Network using web client	
25.	PC Client	PC application client with a channel recording feature support	
26.	Web Client	Viewer through HTTP(min.)System Configuration Setting / Streaming	
27.	Simultaneous Connection	5 users or more	
28.	Lens Type	4.3–129 mm/4.5–135 mm (x30), F1.6 or better motorised Varifocal, Autofocus, Autoiris	
29.	Dynamic Noise Reduction	3D	
30.	Auto Exposure	Automatic Level Control/Electronic Level Control	
31.	Intelligent Defog	Yes	
32.	Illumination	Color: 0.3 lux, F1.6 or better B/W: 0.04 lux, F1.6 or better At 30 IRE Inbuilt IR (175 mtrs. or better)	
33.	Signal Process	Digital Signal Process	
34.	Motion Detection Zones/ privacy zones	3 or higher	
35.	Auto Gain Control	Yes	
36.	Back Light Compensation	Yes	
37.	High Light Compensation	Yes	
38.	Electronic Shutter	1/10000s to 1 s or better	
39.	White Balance	Yes	
40.	Wide Dynamic Range	min 120 db (Sensor based)	
41.	Day and Night	Yes (as per minimum illumination)	
42.	Operating Temperature	0 °C to 60 °C Humidity 20–80% RH (non-condensing)	
43.	Power Source	Suitable adaptor shall be supplied to make the equipment work on 230V +10%, 50Hz and Power over Ethernet (POE 802.3 at)	
44.	Internet protocol Support	IPv4 and IPv6	
45.	Housing	Poly Carbonate/ Aluminium Construction with IP-67 Including pole mount/wall mount accessories , Power and data cables	
46.	Anti-Vandalism rating	IK10	
47.	Panning Range and Speed	0 deg to 360 deg, 0.2°/s–160°/s	
48.	TiltingRangeand Speed	180°, 0.2°/s–120°/s	
49.	Presets	100 presets or higher	
50.	Edge based video	Video motion detection and Active tampering alarm	

	content Analytics		
51.	Accessories	All required accessories at site for installation of camera to be provided like Cat6 Patch Cord (7 Mtr), Pole Mount, Corner brackets, Connector kit, screws etc.	
52.	Warranty & Maintenance Support	5 Years Comprehensive onsite OEM Warranty & Maintenance support	

Item No. 5: Camera Specialized for PCR VAN with NVR

S. No.	Features	Description	Compliance (Yes/No)
1.	Make		
2.	Model		
3.	Camera Type	Mobile Speed PTZ	
4.	Standard	ONVIF Profile S Compliant	
5.	Certification	BIS, FCC, RoHS and CE/UL	
6.	Image Sensor	1/2.8" CMOS or better	
7.	Resolution	2MP (Min.1920x1080) at 25 FPS or better	
8.	Max. Mbps Constrained VBR	5	
9.	Compression	H.264,H.265, H.265+	
10.	Streaming	Min. Dual compressed stream (Individually Configurable)	
11.	Encryption	HTTP(SSL/TLS)/HTTPS	
12.	Video Authentication	For video authentication, classic water marks/ digital signature must be embedded in Video Stream along With name, time, date stamped which cannot be tampered	
13.	Physical Layer	10/100baseTxEthernet	
14.	Protocol	MinimumTCP,HTTP,RTP,RTSP,SNMP,IPV4,IPv6,FTP,NTP,DHCP, RTP,SMTP,UDP,UPnP,ICMP,IGMP,SSL, QoS,802.1x,DNS,DDNS,HTTPS	
15.	IP Support	Static/dynamic or both	
16.	Remote Administration	Remote configuration and status using web based tool	
17.	System Update	Remote system update over Network using web client	
18.	PC Client	PC application client with a channel recording feature Support	
19.	Web Client	Viewer through HTTP(min.) System Configuration Setting/Streaming	
20.	Simultaneous Connection	5 users or more	
21.	Lens Type	5.9-135.7mm,23x motorised, Autofocus, Autoiris, Varifocal	
22.	Dynamic Noise Reduction	3D	
23.	Auto Exposure	Automatic Level Control/ Electronic Level Control	
24.	Intelligent Defog	Yes	
25.	Illumination	Color: 0.05 lux, F1.6B/W: 0.01 lux, F1.6At 30 IRE Inbuilt IR(60mtrs.orbetter)	
26.	Signal Process	Digital Signal Process	
27.	Auto Gain Control	Yes	
28.	Back Compensation	Yes	

29.	High Compensation	Yes	
30.	Electronic Shutter	1/10000sto1sorbetter	
31.	White Balance	Yes	
32.	Wide Dynamic Range	min120db (Sens or based)	
33.	Day and Night	Yes,(ICR)	
34.	Operating Temperature	0 °C to60°C Humidity20–80%RH(non-condensing)	
35.	Power Source	Suitable adaptor shall be supplied to make the equipment work on 230V +10%, 50Hz and Power over Ethernet (POE802.3at) OR 12 VDC through NVR	
36.	Internet protocol Support	IPv4andIPv6	
37.	Housing	Poly Carbonate/AluminiumConstructionwithIP-66 Including pole mount/wall mount accessories , Power and data cables	
38.	Presets	100presetsorhigher	
39.	Edge based video Content Analytics	Video motion detection and Active tampering alarm	
40.	Accessories	AllrequiredaccessoriesatsiteforinstallationofcameratobeprovidedlikePoleMount,Cornerbrackets, Connector kit, screws etc.	
41.	NVR		
42.	General	NVR Shall have capability to send the recording of stored Feed to data centre on restoration of connectivity.	
43.	Integration Existing VMS	SI has to ensure integration with existing VMS i.e. NicevisionNet3.1or higher	
44.	IP video input	4chindependentPOEinterfaces	
45.	Two-way audio	1 ch	
46.	Incoming band width	atleast80Mbps	
47.	Encoding technique	H.264,H.265	
48.	Recording resolution	Min.1920x1080	
49.	VGA/HDMI output	1-ch with resolution upto1920×1080	
50.	CVBS output	1-ch;aviation plug	
51.	Live view	Simultaneous 4ch	
52.	Storage Capacity	Min 2TB capacity SATA HDD/SSD	
53.	Protection	3-generation hard disk box	

54.	Backup interfaces	Hard disk box, USB interface and eSATA interface Supporting data backup	
55.	Dialling	4Gwithdual SI M card mode	
56.	Wi-Fi	802.11b/g/n supported, 2.4GHz	
57.	GPS	Support	
58.	Network interface	1;RJ45;10M/100M self-adaptive Ethernet interface	
59.	Antenna Interface	SMA interfaces: 2 for 4G, 1 for Wi-Fi and 1 for GPS	
60.	Serial interface	RS-232, RS-422, aviation plug	
61.	eSATA interface	1	
62.	USB interface	Front USB Port	
63.	EXP.STOR	Connectable to external HDD for storage expansion	
64.	SIM card	2, standard SIM card slots	
65.	Operating system	Linux	
66.	Operating method	IR remote control	
67.	Working temperature	-10°C to 55 °C	
68.	Working humidity	10% to 90%	
69.	Anti Vibration	Military standards for HDD Vibration Protection	
70.	Power Protection	<ul style="list-style-type: none"> SI has to arrange necessary equipment/device for protection of NVR on start of vehicle. SI has to ensure the last video feed file to be saved after any abrupt power failure or vehicle shutdown. 	
71.	Accessories	All required accessories for installation of NVR in PCRVAN to be provided like brackets, Connector kit, screws etc.	
72.	Display		
73.	Display	Min 10 inch display to be provided along with all necessary cables for connecting with NVR/ Camera for display and power adapter etc.	
74.	Accessories	All required accessories for installation of Display in PCRVAN to be provided like Cat6 Patch cord (7 mtr), brackets, Connector kit, screws etc.	
75.	Warranty & Maintenance Support	5 Years Comprehensive onsite OEM Warranty & Maintenance support	

Item No. 6: RuggedTablet-Windows-7inch

S. No.	Features	Description	Compliance (Yes/No)
1.	Make		
2.	Model		
3.	Item Type	Rugged Tablet	
4.	Integration with existing VMS And Dial100	SI has to ensure integration with existing VMS i.e. Nice vision Net3.1 or higher and Dial100 i.e. Intergraph	
5.	Ruggedness Standards	MIL-STD810G & IP65 tested design	
6.	CPU	Intel® Dual Core Processor, 1.1GHz with 4MB Cache or Higher	
7.	Operating System	Windows 10 pro and latest	
8.	Memory	Min. 4GB RAM	
9.	Storage	Min. 128GB internal storage required Expandable via Micro SD slot	
10.	Display	Min. 7" touch display, Sun light readable with stylus pen	
11.	Screen Auto Rotate	Yes	
12.	Input	Soft Keyboard, Stylus Pen, Touch screen with multitouch	
13.	Display Resolution	1280x720 or higher	
14.	Network Interface	Wireless 802.11 b/g/n or 802.11ac Bluetooth 4.0 or higher	
15.	Internet protocol Support	IPv4 and IPv6	
16.	Camera	Front-facing camera-Yes Min. 5MP rear-facing camera with flash	
17.	Control Switch	1x Power on/off button	
18.	Speaker & Microphone	Integrated Speaker and microphone	
19.	Sensors	<ul style="list-style-type: none"> Ambient Light Digital Compass Gyro Acceleration 	
20.	I/O Ports	Min. 1x USB 2.0 or higher Min. 1x MicroSD Slot Min. 1x SIM/Micro SIM (4G LTE compatible with	

		bands available in India) Min. 1 x audio jack for Headphone/speaker Min.1xDC power	
21.	GPS antenna	Required	
22.	Battery Pack	Lithium-Ion battery of min.6800 mAH	
23.	Water proof and Dust proof	Water and dust resistance	
24.	Shock proof	<ul style="list-style-type: none"> • Resists drops from min. 4 feet • Shocks, vibrations, thermal shocks and temperature extremes • To be used in moving vehicles 	
25.	Accessories	<ul style="list-style-type: none"> • Handle/shoulder strap with Pen • Screen Protector • Charging Adapter 	
26.	Vehicle Dock	<ul style="list-style-type: none"> • Rugged Construction • OEM Certified • 2 USB and minimum 1 LAN Port • Car Charging Slot • OEM Certified DC Car Charger 	
27.	Warranty & Maintenance Support	5 Years Comprehensive onsite OEM Warranty & Maintenance support	

Item No. 7: Workstation with 3 Monitors

S. No.	Item	Description of Requirement	Compliance (Yes/No)
1.	Make		
2.	Model		
3.	Processor	Intel Xeon E3 @ 3.00 Ghz or higher(without turbo) with 8 MB cache or higher /i 7 Quad core Processor @ 3.20 GHz or higher(without turbo) with 8 MB cache or higher (64 bit) (Processor should have been released on or after Q2 of 2014)	
4.	Memory	Minimum 16 GB Memory expandable upto min. 32 GB	
5.	Integrated Intel Graphics Card	Yes	
6.	Graphics card	WHQL certified NVIDIA Graphics card with 2 GB onboard video memory (non shared), graphics card shall be chosen such that each workstation supports 4 monitors simultaneously with no degradation in video quality considering HD video quality and 25 fps	
7.	HDD	2 TB SATA Hard drive @7200 rpm	
8.	Media Drive	16X DVD \pm RW	
9.	Network interface	1000BaseT, Gigabit Ethernet (10/100/1G auto sensing)	
10.	Audio	Line/Mic IN, Line-out/Spr Out (3.5 mm)	
11.	USB ports	Minimum 6 USB ports (out of that 2 in front). Out of 2 USB port in front ,Minimum 1 USB Port in front shall be USB 3.0.These would be disabled for data transfer.	
12.	Keyboard	104 keys minimum OEM keyboard	
13.	Mouse	2 button optical scroll mouse (USB)	
14.	Monitor	3 number of 21 inch monitor, Minimum 1920 x1080 resolution, TCO 03 (or higher) certified	
15.	Operating System	Latest 64 bit licensed Microsoft Windows operating system with media as per proposed solution	
16.	Anti-virus feature	Advanced antivirus, antispymware, desktop firewall, intrusion prevention (comprising of a single, deployable agent) (Support, updates, patches and errata for the entire contract/ project period)	
17.	Warranty & Maintenance Support	5 Years Comprehensive onsite OEM Warranty & Maintenance support	

Item No. 8: Professional LED Panel

S. No.	Features	Description	Compliance (Yes/No)
1.	Make		
2.	Model		
3.	Screen Size	55 inch	
4.	Panel Type	Direct LED	
5.	Aspect Ratio	16:9	
6.	Resolution	1920x1080 (FHD)	
7.	Brightness	500 Cd/m2	
8.	Display Color	Minimum 8 bit -16 million	
9.	Response Time	<= 12 ms (G to G)	
10.	Viewing Angle	178/178	
11.	Bezel Width	Maximum 2.3 mm(U/L) and 1.3 mm(R/B)	
12.	Bezel Color	Black	
13.	Inputs Ports	DVI-D, HDMI, USB 2.0/3.0, RJ 45	
14.	External Control	RS232C (In/Out)	
15.	Remote Control	Wireless remote control with each display unit along with batteries	
16.	Certification's	Safety- UL/BIS EMC- FCC	
17.	Usage Hours	24 hours x 7 days	
18.	Fittings and Cables	The screen should be supplied with all necessary cables for connectivity that will be required to connect to the video wall controller and/or work stations and/or any other equipment's as per the requirement of the proposed solution.	

19.	Combination of LED's	The bidder/SI shall ensure the 2x2/3x2/3x3/4x3 combination of above mentioned LED tiled together contiguously to form one large Video wall. All necessary hardware (like video wall mounting bracket etc.) to stack LED screen together to be supplied, which should also be easily maintainable and accessible from the front of the video wall.	
20.	Brightness calibration	Brightness of all LED's in a video wall has to be calibrated.	
21.	Orientation:	The video wall panel should have capability to get mounted in either vertical (portrait) mode or Horizontal(Landscape) mode orientation.	
22.	Warranty & Maintenance Support	5 Years Comprehensive onsite OEM Warranty & Maintenance support	

Item No. 9: Display Controller (2x2)

S. No.	Features	Description	Compliance (Yes/No)
1.	Make		
2.	Model		
3.	General	Display Controller should be scalable to control video wall in a matrix of M x N (any combination of Row & Column) up to total of 4 screens. It should also be capable of taking universal inputs for video as well as data along with necessary wall management software's	
4.	Processor and RAM	Min. Quad-Core Processor, E5 Xeon Series or latest processor in the controller and 16 GB RAM.If required, Bidder has to increase processing power and RAM for displaying videos at min. 25fps without any delay and any additional cost to tendering authority.	
5.	Networking	Dual-port Gigabit Ethernet Controller inbuilt Support for Add on Network adapters	
6.	Wall configuration:	4 DVI-D/ HDMI Outputs	
7.	Resolution Output support:	Minimum 1920x1080 or higher	
8.	Universal Inputs	4 Universal Inputs (Should be able to accept at least 3 kinds of signals i.e. DVI/RGB/HDMI)	
9.	Redundancy Support:	System should have the redundancy support for following: - Controller Hard Disk Data - Hot Swappable Power Supply - LAN	
10.	Matrix Combination	The video wall of any matrix combination (CR) should be capable of displaying multiple type of outputs as desired in CCC facility	
11.	Software	Compatible Video Wall Management software to meet the required functionality	
12.	Warranty & Maintenance Support	5 Years Comprehensive onsite OEM Warranty & Maintenance support	

Item No. 10: 1KVA UPS

S No.	Particulars	Minimum Specifications	Compliance (Yes/No)	Deviations, if Any	Pg. No. of specs attached
1	Make offered				
2	Model offered				
3	UPS Capacity in KVA	1 KVA (Line interactive)			
	Input				
4	Nominal input voltage	160-280 V (single phase)			
5	Input frequency	50 Hz +/- 3 Hz			
	Output				
6	Output power capacity (VA)	1000 VA			
7	Power factor	0.6			
8	Output power capacity (W)	600 W at 1 pf			
9	Nominal output voltage	230 V (single phase)			
10	Output voltage distortion	less than +/- 5% at full load			
11	Output frequency	47 to 53 Hz			
12	Crest factor	03:01			
13	Waveform type	Pure sine wave			
14	UPS Warranty	5 years			
	Batteries				
15	Battery type	Sealed maintenance free VRLA type provided with battery stand			
16	Battery Make	Exide/ Amar Raja/ Panasonic/ Numeric/ HBL/ Amron/ Okaya			
17	VAH Required in each battery set	Min. 1600			
18	Battery Warranty	5 Years Comprehensive OEM Warranty			
19	Battery charging time	10 to 12 Hrs.			

20	Charger capacity	Minimum 10% of battery AH			
21	Overall Efficiency	80%			
22	Cold Start capability	Required			
23	Generator compatibility	To provide Clean uninterrupted power when Generator is used.			
24	LED /LCD display	A) Online			
		B) On Battery			
25	Alarms	A) On battery			
		B) low battery			
	Environmental				
	Operating Temperature	0 to 40 degree Celsius			
26	Humidity	95% non-Condensing 40deg.C at			
27	Approvals	CE/ EN 50091-1/ EN 50091-2 compliant UPS			
	Protections				
28	Protection	The unit should trip and protect the UPS beyond upper range of nominal input voltage(Over Voltage Protection)			
29	Make	Product should be Make in India			
30	Warranty & Maintenance Support	5 Years Comprehensive onsite OEM Warranty & Maintenance support			

Item No. 11: NVR (POE) with 4 TB HDD (4 Port)

S. No.	Features	Description	Compliance (Yes/No)
1.	Make		
2.	Model		
3.	Integration with Existing VMS	SI has to ensure integration with existing VMS i.e. NicevisionNet3.1or higher	
4.	VIDEO		

5.	Video Inputs	4 IP Cameras with min.1080p	
6.	Camera Support	ONVIF Compliant	
7.	Video Output	1HDMI,1VGAOUT	
8.	Display Resolution	Min.1920×1080,1600x1200,1280×720	
9.	Display Speed	4 channel real-time live	
10.	Digital Zoom	Yes	
11.	RECORDING		
12.	Video Compression	H.264,H.264+/H.265	
13.	Throughput	Incoming: Min.80Mbps Outgoing:Min.80Mbps	
14.	Recording Resolutions	1920x1080,1280x720	
15.	Trigger events	Alarming, Audio detection, Motion Detection, Trip- zone, Tampering, Video loss	
16.	PLAYBACK		
17.	Performance	Upto 4 channel synchronous playback	
18.	Digital Zoom	Yes	
19.	STORAGE		
20.	Internal	SATAHDDx2(supplied with 4TBHDD)	
21.	External	Min1eSATAport(Up to3TBcapacityfor each HDD)	
22.	NETWORK		
23.	Connection	8 xRJ-45independent100Mbps PoE interface	
24.	Internet protocol Support	IPv4andIPv6	
25.	Remote Data Export	Clip Copy, AVI, JPG	
26.	AUDIO		
27.	Audio Communication	Two way	
28.	Audio In/out	Local(NVR):1RCA/ 1RCA+1HDMI(IP Camera:8)	
29.	Audio Compression Support	Yes	
30.	PORTS		
31.	Alarm In	Local(NVR):4TTL	
32.	Alarm out	Local(NVR): 1Relayout/IP camera	
33.	Serial Interface	RS232(Terminal block)/RS485(Terminal block)	
34.	USB	Min.USB2.0/3.0x2	

35.	GENERAL		
36.	Certification	FCC,UL,CE	
37.	Chassis	Rack mountable	
38.	Warranty & Maintenance Support	5 Years Comprehensive onsite OEM Warranty & Maintenance support	

Item No. 12: Access Switch (4 port)

S. No.	Features	Description	Compliance (Yes/No)
1.	Make		
2.	Model		
3.	Type	Managed Outdoor Industrial grade switch	
4.	Total Ports	4 Ethernet 10/100/1000 PoE ports and 2 Fiber port up links(Populated SFPs)	
5.	Ring Support	Switch Should support the Ring connectivity in uplink port (IEEE802.17/Equivalent), LLDP/Equivalent, UDLD/ Equivalent	
6.	PoE Standard	IEEE802.3afoneach10/100/1000 ports or better	
7.	PoE Power per port	Sufficient to operate the CCTV cameras connected	
8.	Protocols	<ul style="list-style-type: none"> • Support802.1QVLAN • HTTPS/SSH • DHCP support, DHCP Snooping • SNMP Management • IGMP Support • IPv6 protocol support 	
9.	Multi Cast Support	MLD snooping(v1 andv2) and IGMP(v2 andv3)	
10.	Topology Selection	Bidder has to decide switch model type, be it L2 or L3 as per their design principle. However, bidder has to make sure that spanning tree related loops are prevented at each and every layer.	
11.	Security Features	<ul style="list-style-type: none"> • Dynamic ARP Inspection • IP Source Guard • ARP Snooping/Spoofing • Access Control List 	
12.	Remote Management	Shall Support remote management through SNMP traps	

13.	Access Control	<ul style="list-style-type: none"> Support port security Support 802.1x (Port based network access control). Support for MAC filtering. 	
14.	Industrial Rating	IP 30andNEMA TS-2	
15.	EN/IEC	EN/IEC60068-2-27,ESDEN/IEC61000-4-2,EN/IEC61000-4-	
	Standard Ratings	3,EN/IEC61000-4-4,EN/IEC61000-4-6,EN/IEC61000-4-8,EN/IEC60068-2-6,RoHSandEMCas FCCPart15,ClassA.	
16.	Surge Protection	Yes, EN/IEC61000-4-5	
17.	Operating Temperature	-10to70 degrees Corbetter	
18.	Certification to be provided by bidder	UL,CEandNEMATS-2	
19.	Cables	All necessary data and power cable sand industrial grade power adapter to be provided	
20.	Warranty & Maintenance Support	5 Years Comprehensive onsite OEM Warranty & Maintenance support	

Item No. 13: 12 U Wall Mount indoor Network Rack

S No.	Particulars	Minimum Specifications	Compliance (Yes/No)	Deviations, if Any	Pg. No. of specs attached
1	Make Offered				
2	Model Offered				
3	Height	12U usable space for 19" equipment's			
4	Type	Single Section Wall mount rack			
5	Wire managers	One horizontal			
6	Power distribution	(4 points – 5Amp sockets and 2 points – 15Amps sockets) power distribution Indian round pin			
7	Door	Perforated metallic/glass door in front with lock			
8	Fan trays	With 2 fans			
9	Metal	Aluminum/Steel			
10	Side panels	Detachable/ non-detachable side panels			
11	Cable Manager	1U Cable Manager			

12	Width x Depth	550mm * 600 mm			
13	Certifications	Rack should be from ISO 9001:2008 & ISO14001:2004 & 18001:2007 Certified Company & UL Listed			
14	Standards	Rack should Conform to DIN 41494 or Equivalent EIA /ISO / EN Standard.			
15	Make	Product should be Make in India			
16	Warranty & Maintenance Support	5 Years Comprehensive onsite OEM Warranty & Maintenance support			

Item No. 14 : 9 U Wall Mount indoor Network Rack

S No.	Particulars	Minimum Specifications	Compliance (Yes/No)	Deviations, if Any	Pg. No. of specs attached
1	Make Offered				
2	Model Offered				
3	Height	9U usable space for 19" equipments			
4	Type	Single Section Wall mount rack			
5	Wire managers	One horizontal			
6	Power distribution	(4 points – 5Amp sockets and 2 points – 15Amps sockets) power distribution Indian round pin			
7	Door	Perforated metallic/glass door in front with lock			
8	Fan trays	With 2 fans			
9	Metal	Aluminum/Steel			
10	Side panels	Detachable/ non-detachable side panels			
11	Cable Manager	1U Cable Manager			
12	Width x Depth	550mm * 600 mm			
13	Certifications	Rack should be from ISO 9001:2008 & ISO14001:2004 & 18001:2007 Certified Company & UL Listed			

14	Standards	Rack should Conform to DIN 41494 or Equivalent EIA /ISO / EN Standard.			
15	Make	Product should be Make in India			
16	Warranty & Maintenance Support	5 Years Comprehensive onsite OEM Warranty & Maintenance support			

Item No. 15: Cat 6 Ethernet cable in casing and conduiting (with laying)

SNo.	Particulars	Minimum Specifications	Compliance (Yes/No)	Deviations, if Any	Pg. No. of specs attached
1	Make Offered				
2	Model Offered				
3	Features	Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2: (UL certificate should be submitted for CM/CMR rating) 23 AWG solid bare copper conductor			
4		Polyethylene insulation/LSZH, CM/CMR rated jacket as per UL 1666 or IEC 60332-3			
5		Cross- member/ fluted member pair separator, ETL or 3P tested for TIA/EIA-568C.2, 3P, (ETL report should be submitted)			
6		-20 Deg. C to +60 Deg. C Operating temperature, Frequency tested up to Minimum 250 MHz			

7		Box of 305/500 meters Packing, 45ns MAX. Delay Skew, 100 Ohms + /- 15 ohms for 1 to 250 MHz			
8		Impedance, Pair- to- pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR Performance characteristics to be provided			
9		Attenuation (dB/100m) - 32.8MAX. At 250MHz			
10	ISI Mark PVC 10 mm Conduits (in Mtr.)	PVC conduit/ casing 10 mm ISI mark including all accessories			
11	Make	Product should be Make in India			
12	Warranty & Maintenance Support	5 Years Comprehensive onsite Warranty & Maintenance support			

Item No. 16: Information Outlets

SNo.	Particulars	Minimum Specifications	Compliance (Yes/No)	Deviations, if Any	Pg. No. of specs attached
1	Make Offered				
2	Model Offered				
3	I/O with Surface Mount Box Features	Should meet for exceed the TIA/EIA- 568-C.2 Component Compliant (1Gigabit) standard			
4		Surface mount box with single RJ45 socket to terminate UTP CAT 6 Cable			
5		Accessories Strain relief and bend-limiting boot for cable , Approval UL or ETL or 3P			
6		Housing Polyphenylene oxide, 94V-0 rated Wiring blocks Polycarbonate, 94V-0 rated			
7		Jack contacts : Beryllium copper/phosphor bronze with thick gold and minimum thick nickel under plate, Performance Characteristics Attenuation, NEXT, PS NEXT, FEXT and Return Loss, IDC Contact: Phosphor bronze 50micron" gold plated contact surface			
8		Provision for protection against dust			
9		ROHS Compliant , 3rd party from bodies like ETL verified (ETL report should be submitted)			
10	Faceplate Features	Single Gang square plate, 86 mmX 86mm or higher			
11		1-port with shutter , High Impact Plastic Body ABS material			

12		Write on labels– supplied with plate			
13		Screw hole covers – to be supplied with plate			
14		Plug in Icons – Icon tree – to be supplied with plate			
15		Provisions for labeling icons and strips			
16	Make	Product should be Make in India			
17	Warranty & Maintenance Support	5 Years Comprehensive onsite Warranty & Maintenance support			

Item No. 17: LIU/JC Box with LC connector

S No	Particulars	Minimum Specifications	Compliance (Yes/No)	Deviations, if Any	Pg. No. of specs attached
1	Make Offered				
2	Model Offered				
3	Features	minimum 6 port duplex connector Fibre management rack mount/outdoor enclosures loaded with required Adapters, adapter plates, pigtails, splice trays & labels			
4		Height 1 U (Rack/Wall mountable)			
		Cable Management rings: Management rings within the system to accommodate excess fibre cordage behind the through adapters and maintain fibre bend radius			

5		Drawer/Sliding Style: The LIU must be of Drawer/ Sliding style for easy maintenance and troubleshooting			
6	Make	Product should be Make in India			
7	Warranty & Maintenance Support	5 Years Comprehensive onsite Warranty & Maintenance support			

Item No. 18: 24 Port Patch Panel

SNo.	Particulars	Minimum Specifications	Compliance (Yes/No)	Deviations, if Any	Pg. No. of specs attached
1	Make Offered				
2	Model Offered				
3	Features	Should conform to TIA / EIA 568-C.2 Component Compliant			
4		Should terminate 8 UTP CAT 6 (4 pair) Cables at 110 type wiring block at the rear end and RJ45 jack on the front panel			
5		Have port identification numbers on the front of the panel.			
6		Ports should be with individual dust cover & individually replaceable			
7		19" rack mountable			
8		Should confirm to EIA/TIA wiring Pattern			
9		Should have labeling strips for identification			
10		Should have integral cable management shelf			

11		The modules should be UL94 VO rated			
12		Modules should be 110 IDC Termination 180 or 90 or 45 degree Punch, allowing wires between 22 – 26 AWG sizes			
13		Cable Guide way or support bar to guide the cable on the rear side			
14		Jack Panel should be RoHS Complaint			
15	Make	Product should be Make in India			
16	Warranty & Maintenance Support	5 Years Comprehensive onsite Warranty & Maintenance support			

Item No. 19: Cat 6 Patch Chord (1 meter)

SNo.	Particulars	Minimum Specifications	Compliance (Yes/No)	Deviations, if Any	Pg. No. of specs attached
1	Make Offered				
2	Model Offered				
3		Should confirm / comply or exceed the ISO/IEC 11801:2002, TIA-568-C.2 Cat 6 for physical & Electrical specifications / standards			
4		4 Pair 24 AWG Copper Cable with integral cross member pair, transparent slim line clear anti-snap slip on boots and factory moulded RJ-45 plugs at both end LSZH sheath.			
5		Slim line transparent snag-less, boot to maintain bend radius, Tensile strength 50 Newton			

6	Features	Plug Housing Clear polycarbonate 94V-0 rate			
7		Terminals Phosphor Bronze with gold plating , 50 micron" gold over nickel			
8		Load bar polycarbonate, Jacket FRPVC			
9		Insulation Flame Retardant Polyethylene, End point connector Factory crimp standard connector			
10		Approvals UL (UL certificate should be submitted), ETL or 3P certificates. Material ROHS compliant (ETL report should be submitted)			
11	Make	Product should be Make in India			
12	Warranty & Maintenance Support	5 Years Comprehensive onsite Warranty & Maintenance support			

Item No. 20: 2 meter fiber patch chords (LC-LC/SC-LC)

SN o.	Particulars	Minimum Specifications	Compliance (Yes/No)	Deviations, if Any	Pg. No. of specs attached
1	Make Offered				
2	Model Offered				
3	Features	All optical fiber patch leads shall comprise of Single-mode 9/125µm fiber OS2			
4		Jacket should be LSZH			
		Connector: Zirconia ceramic ferrule			
5		Cable: 9/125, OS2 Strength member: Aramid Yarn			
6	Make	Product should be Make in India			

7	Connector Type	SC -LC/SC-SC/LC-LC (PC Type) as per site requirement.			
8	Warranty & Maintenance Support	5 Years Comprehensive onsite Warranty & Maintenance support			

Item No. 21: 6 core ADSS OFC (with laying including splice and making termination at ends in casing and conduit)

SN o.	Particulars	Minimum Specifications	Compliance (Yes/No)	Deviations, if Any	Pg. No. of specs attached
1	Make Offered				
2	Model Offered				
3	Features	Compliance to ADSS OFC cable TEC/GR/TX/OFC -022/02/ March 17 with latest amendments.			
4	Warranty & Maintenance Supports	5 Years Comprehensive onsite Warranty & Maintenance support			

Item No. 22: 6 core Armoured OFC (with laying including splice and making termination at ends in casing and conduit) Underground

SN o.	Particulars	Minimum Specifications	Compliance (Yes/No)	Deviations, if Any	Pg. No. of specs attached
1	Make Offered				
2	Model Offered				
3	Features	Compliance to OFC cable TEC/GR/TX/OFC -20/01/ March 2011 with latest amendments.			

		<p>a. The Optical Fibre Cable shall be laid through PLB HDPE Ducts buried at a nominal depth of 165 cms. Under compelling conditions/genuine circumstances due to site constraints/ soil conditions, relaxation may be granted by the GoR/COR official for excavation of trench to a depth lesser than 165 cm, however depth less than 60 cm may be permitted in exceptional cases. In such case, additional suitable protection as defined in the document shall be provided. For all cases of lesser depth, bidder must take prior written permission from CoR officials.</p> <p>b. Protection by R.C.C. Pipes/GI pipes and/or concreting/ chambering has to be provided to cable wherever the depth is less than 165 cms.</p>			
5	Warranty & Maintenance Support	5 Years Comprehensive onsite Warranty & Maintenance support			

Item No. 23: Electric Point Wiring

SNo.	Particulars	Minimum Specifications	Compliance (Yes/No)	Deviations, if Any	Pg. No. of specs attached
1.	Electric Point Wiring	<p>Electric Point Wiring with 2x4 sq mm + 1x1.5 sq mm frls copper wire with one 5/15 Amp Socket controlled by single 16/25 Amp. Switch (with required conduits and cables) for Rack/NVR.</p> <p>(Approximately one power socket per 50 meters required. However, requisite no of power socket will provided without any additional cost to purchaser)</p> <p>All Required material should be ISI marked</p>			
2.	Warranty & Maintenance Support	5 Years Comprehensive onsite Warranty & Maintenance support			

Item No. 24: Electric armoured cable with laying and termination end

S. No.	Description	Compliance (Yes/No)
1.	P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with Copper conductor of IS:1554 P-I / IS :7098 P - I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand, IInd class bricks covering, refilling earth, compaction of earth, making necessary connection, testing etc. as required of size. Trench: Open trench / Trench excavation in C.C. flooring or Tar road as per site requirement	
2.	Termination: Supplying and making end termination with heavy duty single compression brass gland SIBG type, heavy duty Copper lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size.	
3.	4 Sq.mm 3 Core armoured cable	
4.	5 Years Comprehensive onsite Warranty & Maintenance support	

Item No. 25: 8 Meter Pole erection with foundation & earthing

S. No.	Features	Description	Compliance (Yes/No)												
1.		Make:													
2.		Model:													
3.		Pole shall have options to host and install security cameras, sensors and detectors.													
4.		Pole shall be able to host at least 4 cameras/ sensors on top having a total weight up to maximum 30Kg.													
5.		Pole shall be able to host solar pane l(vertically mounted) having total weight maximum of 90Kg.													
6.		Designed in accordance with ISS publication: Indian Standard specification For Structure Support Highway Signs, Luminaries and Traffic signals.													
7.		Suitable size Outdoor Junction Box shall be provided for electric meter to be installed at pole													
8.		AC to DC converter shall be provided with pole													
9.		Power sockets (5/15A) as per requirement, subject to minimum of two sockets.													
10.		Suitable size earth termination shall be provided to connect with the proposed earth pit. Pipe earthing of each pole as per IS Standard. Pipe Earthing as per IS:3043 with perforated 3.0 Mtr. Long, 40 mm dia. ' B 'class G.I. Pipe including all accessories like nut, bolts, reducer, nipple, wire meshed funnel, and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size 300mm x 300 mm and embodying the pipe complete with alternate layers salt and coke/charcoal, testing of earth resistance as required. The Pipe earth electrode should be connected to pole mounting the required camera with 8 SWGGI wire.													
11.		Pole shall have Camouflaged Junction Box with locking arrangement													
12.		Supply and erection of GI Octagonal of following length and dimension as per table given below with base plate on the cement concrete foundation of M-20 grade (1:1.5:3) with the help of anchor bolts of grade 6.8 (IS: 1367PIII). <table><tr><td>Top Dia (In mm)</td><td>70</td></tr><tr><td>Bottom Dia. (In mm)</td><td>135</td></tr><tr><td>Sheet Thickness (In mm) Base Plate</td><td>3 225x225x16</td></tr><tr><td>Foundation Bolt Size No. x Dia (In mm)</td><td>4x20</td></tr><tr><td>PCD in mm</td><td>210</td></tr><tr><td>Bolt Length (In mm)</td><td>750</td></tr></table>	Top Dia (In mm)	70	Bottom Dia. (In mm)	135	Sheet Thickness (In mm) Base Plate	3 225x225x16	Foundation Bolt Size No. x Dia (In mm)	4x20	PCD in mm	210	Bolt Length (In mm)	750	
Top Dia (In mm)	70														
Bottom Dia. (In mm)	135														
Sheet Thickness (In mm) Base Plate	3 225x225x16														
Foundation Bolt Size No. x Dia (In mm)	4x20														
PCD in mm	210														
Bolt Length (In mm)	750														

		Foundation Size in mm	450x450x1550	
13.		The pole shall have a weather proof flush door and locking arrangements.		
14.		The complete work shall be supervised and certified by the manufacturers for satisfactory supply, erection, testing and commissioning.		
15.		Octagonal MS Poles made of S-355JO grade steel sheet , folded		
		length wise to obtained Octagonal shape, having single longitudinal seam weld and hot dipped galvanised internally & externally in accordance with IS2629and ISO1461		
16.		Supply, Erection and Fixing of hot dipped galvanised Over hang (48.3X 3.25mm)with cap (400x 88.9/114.3x 3.25mm)over the existing poles Options: <ul style="list-style-type: none"> • Single Arm Over hang • Double Arm Over hang 		
17.		Warranty: 5 Years Comprehensive onsite OEM Warranty & Maintenance support		

Item No. 26: Pole shifting with Foundation & earthing

S. No.	Features	Description	Compliance (Yes/No)
1.		Shifting of existing to another location and erection of pole with proper foundation & earthing as per specification/standard mentioned in item no. 46: New Pole erection with foundation & earthing.	
2.		Warranty: 5 Years Comprehensive onsite Warranty & Maintenance support	

Note: All the supplied Hardware/ Software should be Interoperable, IPv6 ready and in compliance with the policies/ guidelines issued by DIT, GoI in this regard. Also, the bidder is to quote/ propose only one make/ model against the respective item.

The selected bidder shall have to install the equipment at site with required accessories/ cables/ screws etc. required for installation.

ANNEXURE-6: CERTIFICATE OF CONFORMITY/ NO DEVIATION{to be filled by the bidder}

To,

{Procuring Entity},

_____,

CERTIFICATE

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

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

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

Thanking you,

Name of the Bidder: -

Authorised Signatory: -

Seal of the

Organization: - Date: _

Place:

ANNEXURE-8: MANUFACTURER'S AUTHORIZATION FORM (MAF) {to be filled by the OEMs} (Indicative Format)

To,

{Procuring Entity},

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

Reference: NIB/ RFP Ref. No. _____ dated

Sir,

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

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

We hereby undertake that all the components/parts/assembly/ software used in the offered Hardware/ Software, as mentioned above, are not complying to GB28181 Standards.

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

We hereby confirm that the offered Hardware/ Software, as mentioned above, is complying to the respective technical specification mentioned in RFP.

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

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

Yours faithfully,

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

(Authorized Signatory)

Name, Designation & Contact No.:

Address: _____

Seal:

ANNEXURE-9: UNDERTAKING ON AUTHENTICITY OF ITEM MENTIONED IN ANNEXTURE-1

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

To,

{Procuring Entity},

Reference: NIB No. : _____ Dated: _____

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

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

We hereby undertake that all the components/parts/assembly/ software used in the equipment are not complying to GB28181 Standards.

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

Authorized

Signatory Name:

Designation:

ANNEXURE-10: COMPONENTS OFFERED –BOM{to be filled by the bidder}

Please fill the following BOM for all the offered components

S. No.	Item No.	Item Name	Make	Model	Quantity	MAF Submitted (Yes/No)	OEM Details (Name, Address, E- Mail, Mobile Nos.)
1.	{Item No. xx}	{Item Name. xx}					
2.	{Item No. xx}	{Item Name. xx}					
3.	{Item No. xx}	{Item Name. xx}					
4.	{Item No. xx}	{Item Name. xx}					
.....					

** Please attach Technical specifications compliance sheet (on Bidder's letter head only) and provide reference number in this column. (Deviations, if any, should be appropriately mentioned & highlighted in the compliance/ deviation column of the respective table as provided above in the Annexure-2: Technical Specifications)

ANNEXURE-11: FINANCIAL BID COVER LETTER & FORMAT COVER LETTER {to be submitted by the bidder on his Letter head}

To,

{Procuring Entity},

Reference: NIB No. : _____ Dated: _____

Dear Sir,

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

I / We undertake that the prices are in conformity with the specifications prescribed. The quote/ price are inclusive of all cost likely to be incurred for executing this work. The prices are inclusive of all type of govt. taxes/duties as mentioned in the financial bid (BoQ).

I / We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the schedule of Requirements.

I/ We hereby declare that in case the contract is awarded to us, we shall submit the contract security deposit/performance guarantee as prescribed in the bidding document.

I / We agree to abide by this bid for a period of ___days after the last date fixed for bid submission and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.

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

I/ We hereby agree that the rate quoted by us for each item mentioned in the tender shall remain valid for purchase by COR for a period of one year and may be extended by 3 months on satisfactory services on same terms and conditions subject to price fall clause.

We understand that you are not bound to accept the lowest or any bid you may receive.

We agree to all the terms & conditions as mentioned in the bidding document and submit that we have not submitted any deviations in this regard.

Date:

Authorized

Signatory Name:

Designation:

Financial Bid Format(Indicative)

{To be submitted by the bidder only in BoQ format (.XLS) available at eProc portal}

Sl. No.	Item Description (As per specifications mentioned at BoM at Annexure-2 of RFP)	Quantity	Units	Base Unit Cost in INR (incl. all incidental charges and all Taxes but excl. GST)	GST in INR	Amount in INR (including all taxes) per Unit	Total Cost in INR
1	2	3	4	5	6	7=5+6	8=3*7
1.	Full HD IP Dome Camera with IR	2500	Nos.				
2.	Full HD IP Bullet Camera with IR	1500	Nos.				
3.	Full HD IP Box Camera	6000	Nos.				
4.	Full HD IP PTZ Camera with IR	5000	Nos.				
5.	Camera Specialized for PCR VAN with NVR	100	Nos.				
6.	Rugged Tablet - Windows-7inch	100	Nos.				
7.	Workstation with 3 Monitors	20	Nos.				
8.	Professional LED Panel	50	Nos.				
9.	Display Controller (2x2)	10	Nos.				
10.	1KVA UPS	1000	Nos.				
11.	NVR (POE) with 4 TB HDD (4 Port)	1000	Nos.				
12.	Access Switch(4port)	500	Nos.				

13.	12 U Wall Mount indoor Network Rack	100	Nos .				
14.	9 U Wall Mount indoor Network Rack	800	Nos .				
15.	Cat 6 Ethernet cable in casing and conduiting (with laying)	150000	Met ers				
16.	Information Outlets	1000	Nos .				
17.	LIU/JC Box with L connector C	100	Nos .				
18.	24 Port Patch Panel	100	Nos .				
19.	Cat 6 Patch Chord (1 meter)	2000	Nos .				
20.	2 meter fiber patch chords (LC-LC/SC-LC)	200	Nos .				
21.	6 core ADSS OFC (with laying including splice and making termination at ends in casing and conduit)	15000	Met ers				
22.	6 core Armoured OFC (with laying including splice and making termination at ends in casing and conduit) Underground	6000	Met ers				
23.	Electric Point Wiring	100000	Met ers				
24.	Electric armoured cable with laying and termination end	150000	Met ers				
25.	8 Meter Pole erection with foundation & earthing	500	Nos .				
26.	Pole shifting with Foundation & earthing	200	Nos .				
Total in Figures						0.00	0.0

PROJECT MANAGEMENT ASPECTS

1. Objective. To define process, logistics and flow chart with clear demarcation of activities and steps involved to design, delivery plan & implement the project. The process will optimize the time line required in serial and parallel activities to streamline each & every activity, so involved.
2. Project Management Organization. The prospective Bidders should have an organised structure to handle the project on pan India basis to ensure rollout of project as per defined timelines, The Bidder shall identify the project team, clearly identifying the key personnel, OEM that would be part of implementation including support, their roles and deploy personnel accordingly. The list of these personnel may be shared with the BUYER. The assignment and reassignment of the Bidder's principal participants in the project shall be subject to the Buyer's approval.
3. Bidder's Responsibilities & Obligations. The Bidder's obligations beyond those defined in scope of work in Appendix 'A' would include:-
 - (a) The Bidder shall be responsible for implementation of project complying to all functional and performance parameters as per specifications and submit a detailed execution plan covering delivery, architecture, work schedules, installation plan and project planned timelines to BUYER for review and approval within two months of the signing of contract.
 - (b) To work out site visits, and studies necessary to identify installation requirements including migration and testing of applications. The list of personnel visiting sites must be provided by the Seller at least 45 days prior to each visit.
 - (c) Project management and scheduling, including monthly project reports documenting various stages of progress with issues experienced in each stage and the agreed resolution attained thereof.
 - (d) Technical assistance and deployment support during the contract and warranty period.
 - (e) Delivery, installation, Migration and operationalise at site including providing all required accessories.
 - (f) Facilitate site acceptance testing of all equipment provided.
 - (g) Provide documentation as required for all technical and management aspects.
 - g) Training plan for the specified Buyer personnel.
4. Buyer responsibilities and obligations. BUYER will provide the following items and services as part of the procurement project:-
 - (a) Review and approval of the architecture and deployment and Installation plan.
 - (b) Review and approval of test procedures.
 - (c) Participation in and approval of SAT and Acceptance Tests.
 - (d) Review & approval of training plans.
 - (e) Providing support and access to facilities at the sites.

5. General Requirements of Programs and Schedules. Bidder shall include in his Bid proposal a Project Management Plan showing the major activities and various major milestones to achieve the project timeline. The schedule shall fully inter-relate delivery, design and implementation phases. All programs containing scheduled dates including those for delivery, design and implementation shall be adhered to by the Bidder and shall not be changed except as may be agreed by BUYER,

6. Supply and Delivery Schedule. The Bidder shall submit to BUYER his supply and delivery schedules for all equipment within 60 days from the start date of contract. Such schedules shall be In line with the project delivery schedule. The schedules shall be reviewed, updated (depending on site availability and readiness) and submitted to BUYER, once in every two months thereafter, till completion of the project.

7. Monitoring, Progress Reporting & Management Information System. The progress reports shall be issued every month by the Bidder. Reports shall include work schedules, architecture drawings considered necessary for monitoring the project. The reports shall be made available to BUYER at least five working days prior to scheduled progress review meeting. The progress report should necessarily include the following sections: -

- (a) Report on key milestones.
- (b) Critical activity areas with details of actions Initiated, if any, and their implication on the project.
- (c) Action needing attention of Network team and Dte of AFNET.
- (d) Detailed location wise status of survey, delivery, installation, integration etc.
- (e) Critical Path Analysis along with corrective actions.

8. Project Coordination Meeting. The Bidder will be called upon to attend monthly project coordination meetings with BUYER, along with OEM (if required), during the period of execution of Contract. The Bidder shall attend such meetings at their own cost at BUYER office or at any other venue, as specified by the BUYER, as and when required, and fully cooperate for successful implementation of project. Bidder will facilitate direct engagement of Professional Support Team of OEM with Project Team of BUYER without any intervention.

9. Progress Reporting With the intent to assure quality management and project progress as per the implementation schedule, progress reports submitted for each reporting period and Progress Review Meetings shall focus on the following:-

- (a) Monthly Progress Reports. A monthly Progress Report shall be prepared by the Project Manager that includes inputs from all its subsystems. The meetings would be held at the Directors level. The report shall be made available to the Buyer as hard copy by the 5th of each month and shall include but not be limited to:-
 - (i) Updated project schedule highlighting any deviations from the previous issue of the project schedule.

- (ii) Explanation and anticipated effect of each schedule deviation and its implication to the BUYER.
- (iii) Schedule recovery plan for any deviation incurring a delay in delivery date.
- (iv) A summary of activities performed by the Bidder and the BUYER during the previous reporting period.
- (v) An updated list of all correspondence transmitted and received by the Bidder.
- (vi) List of all Bidder personnel & Buyer personnel and identifying all activities performed by each person and the activities scheduled for the next two reporting periods.
- (vii) Updated list of Bidder and the Buyers action items with status, description of required information, and required resolution dates.
- (viii) Summary of pending and upcoming Bidder and the Buyer activities during the next two reporting periods along with required completion dates.
- (ix) Status of unresolved contract questions and change requests.
- (x) Summary of variances.
- (xi) Description of current and anticipated project problems and steps to be taken to resolve ie each problem.

(b) Quarterly Progress Review Meetings. Progress Review Meetings shall be scheduled by the project managers and attended by the Bidder and the Buyer to review progress of the project. This meeting would be held at the level of Principle Directors level. Progress meetings shall be used to review the progress reports for the previous reporting periods, written correspondence exchanged since the last meeting, and open action items.

(i) The Bidder shall also attend technical meetings as required to discuss technical aspects of the project and to review the Buyer comments on approval documents.

(ii) All meetings shall be held at the Buyer's offices or at other venues as specified by the Buyer. The Bidder's Project Manager shall record the minutes of each meeting and shall provide hard copies to the Buyer and all attendees on the same day whenever possible, but not later than within two working days after the meeting.

(b) Progress review meeting(s) may be called for earlier than the quarterly schedule also, at the discretion of the Buyer.

10. Transmittals. Every document, letter, progress report and any other written or electronic media transmissions exchanged between Bidders and the BUYER shall be assigned a unique transmittal number. Discussions, phone calls and e- mails where project related information is exchanged shall be documented in a transmittal. The Bidder shall maintain a correspondence index and assign transmittal numbers consecutively for all Bidder documents. The Buyer will maintain a similar correspondence numbering scheme identifying documents and correspondence that the Buyer initiates. The Buyer shall have the option of adding consultants to the transmittal distribution list and document distribution list to receive all correspondence and all or selected system documents. The consultants will be bound by the same confidentiality restrictions imposed on the Buyers personnel.

11. Implementation Schedule. The Bidder shall produce and maintain the implementation schedule using any contemporary Software or any other equivalent ERP solution with web based capability. A copy of the implementation schedule files on a DVD or CD-ROM shall also be provided to the Buyer. The overall project plan shall consist of a Milestone Plan and a detailed Schedule Plan.

(a) The Bidder shall provide a critical path analysis report and a manpower resource analysis report. Other standard reports will be defined during the Work statement.

(b) Within two weeks of contract signing, the Bidder shall submit detailed project schedule, as described below. The project schedule shall include all tasks to track overall direction and integration of the project from inception through completion. The Schedule Plan shall be developed utilizing the concept of Work Breakdown Structures.

(c) The implementation schedule shall include the project milestones, the Bidder activities, and the Buyers activities. The project schedule shall be an accurate representation of the progress and planned activities of the project.

(d) The actual progress made to date and the scheduled date for the systems shall be closely monitored by both the Bidder and the Buyer project managers. This application will be web server based. The following information shall be reported to the Buyer in a clear and concise manner using the tabular and graphic capabilities of the project management software:-

(i) An overview and general assessment of all the Buyer and Bidder activities and any progress or delays in these activities since the last reporting period.

(ii) Identification of tasks in the critical path together with an analysis indicating any required remedial action.

(iii) The amount of contingency time (float) remaining in the schedule.

(iv) Information on each task, including:

(aa) Estimated start and finish dates.

(ab) Any change in the estimated dates since the last reporting period.

(ac) Estimated total number of calendar days to complete the task.

(ad) Percent of task completed.

(ae) An indication of whether the start date was manually entered or computed.

(v) Total project resources.

(vi) The tasks to begin in the next two reporting periods.

(vii) The tasks to be completed in the next two reporting periods.

(viii) The tasks completed in the last two reporting periods.

(e) The content and format of the project schedule shall be subject to the Buyers approval. The Bidder shall update and submit the project schedule to the Buyer at least one week prior to each progress meeting

12. Implementation Steps. The basic implementation steps pertaining to the project are:-

(a) Design & parameterize the system, including implementation strategies.

(b) Conduct site surveys, identify equipment locations and required site preparations.

- (c) Delivery, installation, integration and Migration of the supplied equipment.
- (d) Site Acceptance Testing.
- (e) Acceptance Testing.

(g) The Bidders shall propose preliminary implementation plans as part of the bid. The Buyer and the Bidder shall finalize the detailed implementation plan following the award of the contract

13. Resource Control. To enable the Buyer to assess whether the Bidder's proposals are adequate to meet the Contract requirements, the Bidder shall describe his resource management system.

(a) The Bidder in his proposal shall define the resources that shall be deployed during design, delivery, installation, and commissioning phases and show that those will be adequate to meet the Contract commitment.

(b) Following the placing of the Contract, the Bidder shall submit monthly resource deployment schedules segregated into design, delivery, installation and commissioning.

(c) Bidder shall have facility and proper material management system in place to keep inventory of major supply items and accessories in advance of installation schedule.

14. Buyer's Rights. The Buyer reserves the right to evaluate and audit the Bidder's Project Management Organization, systems and control measures concerning Contract Management, Management Information, Program Management, Resource Management, Quality Assurance, Design, Production and Manufacture, Industrial Relations, Testing, Commissioning and Site Management. The Bidder shall provide all necessary assistance to enable the Buyer's team to carry out such audits and evaluations. Such audits and evaluations shall not in any way relieve the Bidder of any of his liabilities and responsibilities under the Contract. A corrective action program shall be agreed and implemented in respect of any deficiencies revealed by such monitoring, without any cost implication to the Buyer and impact on the time schedule for the project.

CERTIFICATE: MALICIOUS CODE

(To be rendered on the Company Letter head)

1. This is to certify that the Hardware and the Software being offered, as part of the Contract, does not contain embedded malicious code that would activate procedures to:-

- (a) Inhibit the desired and designed function of the equipment.
- (b) Cause physical damage to the user or equipment during the exploitation.
- (c) Tap information resident or transient in the equipment/ networks.

2. The firm will be considered to be in breach of the procurement contract, in case physical damage, loss of information or infringements related to copyright and Intellectual Property Rights (IPRs) are caused due to activation of any such malicious code in embedded software.

(Signed) Designation/Name/Address of firm

Date:

Place:

COMMERCIAL CLAUSES

1. BA/SI has to furnish the Bank Guarantee towards EMD, Advance Payment (110% of Advance amount), Performance cum warranty Guarantee (3%) and Performance Security (10%)
2. In case of the successful bidder, the amount of bid security may be adjusted in arriving at the amount of the Security Deposit, or refunded if the successful bidder furnishes the full amount of Security Deposit.
3. IN TERMS for Delivery and Transportation. Delivery terms are CIP (Carriage and Insurance Paid) Consignee place as per INCOTERMS 2020.
4. Currency of Payment. Bidders should submit their bid in Indian Rupees.
5. Contract Price and Requirement of Bank Guarantees.
 - (a) Total Contract Price. The Total Contract Price will be the final price negotiated by EC including taxes and duties applicable at the time of signing of contract.
 - (b) Base Contract Price. The Base Contract Price will be considered as Total Contract Price excluding taxes and duties as applicable at the time of signing of contract.
6. Payment Terms for Indigenous Sellers. It will be mandatory for the Bidders to indicate their bank account numbers and other relevant e-payment details so that payments could be made through ECS/EFT mechanism instead of payment through cheques, wherever feasible. Delivery Schedule and the stages of payment are given in Annexure VI to Appendix 'G'. The payment will be made as per the following terms, on production of the requisite documents:-
 - (a) Terms of Payment
 - (i) 15% advance payment of the Base Contract Price will be paid within 45 days of submission of Ink-signed copy of contingent bill / Seller's bill and Commercial invoice along with indemnity Bond / Bank Guarantee of equivalent amount. The prescribed format of Indemnity Bond against Advance payment and the Advance Payment Bank Guarantee (APBG) and is placed at Annexure 1A and III to Appendix G respectively.
 - (ii) 45% payment will be paid as per actual supply to the seller in a staggered manner in three tranche on pro-rata basis, as per groups made by CoR; post JRI and on submission of documents listed at Para 6 (b) below.
 - (iii) 30% payment on successful Installation and commissioning in all the 05 Data centers and 05 nodal locations in CoR. The training as outlined in SoR is also to be completed before release of this payment. Payment will be made on submission of User Satisfactory Report along with records of serviceability duly signed by the Inspection agency/CoR.
 - (iv) Balance 10 % payment will be made after successful completion of one year

of warranty and after resolving all outstanding issues and completion of Post contract training as outlined in SoR.

7. Paying Authority

(a) RailTel Corporation of India Ltd.

(b) The payment of bills will be made on submission of the following documents by the Seller to the Paying Authority along with the bill:-

(i) Ink-signed copy of contingent bill / Seller's bill.

(ii) Ink-signed copy of Commercial invoice.

(i) Performance Bank guarantee.

(ii) DP extension letter if any

(iii) Details for electronic payment viz Account holder's name, Bank name, Branch name and address, Account type, Account number, IFSC code, NCCR code (if these details are not incorporated in supply order/contract).

(iv) JRI Report duly signed by both the parties along with CRV Copies of the items BOC; duly signed by the Inspection agency/CoR Rep.

(v) Any other document / certificate that may be provided for in the Supply Order / Contract.

8. Performance—cum-Warranty Bank Guarantee (PWBG) Clause. A Performance-cum Warranty Bank Guarantee (PWBG) of 3% of value of the Total Contract Price including taxes and duties would be furnished by the Bidder in the form of a Bank Guarantee to sequentially act as Performance Bank guarantee till the delivery and as Warranty Bank Guarantee on delivery. The PWBG shall be submitted by the Bidder within one month of signing of contract and shall be valid for a period, until three months beyond the warranty period, as specified in the RFP. If at any stage, the Performance Guarantee is invoked by the Buyer either in full or in part, the Bidder shall make good the shortfall in PWBG within 30 days by an additional Bank Guarantee for equivalent amount. In the event of failure to submit the required Bank Guarantee against invoked Performance Guarantee, equivalent amount will be withheld from the next stage payment till the shortfall in the Bank Guarantee is made good by the Bidder. The prescribed format of the Performance- cum-Warranty Bank Guarantee is placed at **Annexure IV to Appendix G.**

9. Inspection Authority. The inspection authority shall be Dte of Information Technology. Inspection will be carried out jointly by Specialist Officers/ personnel designated from Inspecting Agencies, representative of field unit and representative detailed by Inspection Authority. The mode of Inspection will be Departmental Inspection/ User Inspection/ Joint Inspection/ Self-certification.

10. Joint Receipt Inspection. The following Joint Receipt Inspection clause will form part of the contract placed on successful Bidder —

(a) The Parties agree that the Joint Receipt Inspection (JRI) of delivered goods shall be conducted on arrival at each consignee site to be nominated by the Buyer. JRI shall be completed within 45 days of arrival of good at the Consignee. JRI will consist of

(i) Quantitative checking to verify that the quantities of the delivered goods correspond to the quantities defined in this contract and the invoices.

(ii) Complete functional checking of the stores/equipment as per specifications in the contract and as per procedures and tests laid down by Buyer but functional checking of spares shall not be done.

(b) JRI will be carried out by the Buyer's representative(s). The Buyer will invite the Seller with a prior notice of a minimum of fifteen (15) days to attend the JRI for the delivered goods. The Seller shall have the right not to attend the JRI. The bio data of the Seller's representative will need to be communicated fifteen (15) days prior to the dispatch of goods to the Buyer for obtaining necessary security clearance in accordance with the rules applicable in the Buyer's country.

(c) Upon completion of each JRI, JRI proceedings and Acceptance Certificate will be signed by both the parties. In case the Seller's representative is not present, the JRI proceedings and Acceptance Certificate shall be signed by the Buyer's representative only and the same shall be binding on the Seller. Copy of JRI proceedings and Acceptance Certificate shall be dispatched to the Seller within 30 days of completion of the JRI. In case of deficiencies in quantity and quality or defects, details of these shall be recorded in the JRI proceedings, Acceptance Certificate shall not be issued and claims raised; as per the Article on Claims in the contract. In case of claims, Acceptance Certificate shall be issued by Buyer's representative after all claims raised during JRI are settled. If the Buyer does not perform the JRI as mentioned above for reasons exclusively attributable to him, the JRI in India shall be deemed to have been performed and the stores/equipment fully accepted.

(d) Place of Inspection (JRI) On site Inspection across all sites, (05 data centers and 05 nodal locations spread across India).

11. Liquidated Damages (LD). In the event of the Bidder's failure to supply the Hardware, Software, Performance services, installation of equipment including Hardware and Software, the vendor shall be levied LD @ 1.5% per week of delay subject to maximum of 15% of value of delayed stores, calculated on the basis of the Contract Price of delayed stores.

12. Denial Clause. In case the delay in delivery is attributable to the Seller or a non-force majeure event, the Buyer may protect himself against extra expenditure during the extended period by stipulating a denial clause (over and above levy of LD) in the letter informing the Bidder of extension of the delivery period. In the denial clause, any increase in statutory duties and/or upward rise in prices due to the Price Variation Clause (PVC) and/or any adverse fluctuation in foreign exchange are to be borne by the Bidder during the extended delivery period, while the Buyer reserves his right to get any benefit of downward revisions in statutory duties, PVC and foreign exchange rate. Thus, PVC, other variations and foreign exchange clauses operate only during the original delivery period. The format for extension of Delivery Period/performance notice under the Denial clause is mentioned at Annexure V to Appendix G.

13. Force Majeure.

(a) Neither party shall bear responsibility for the complete or partial non performance of any of its obligations (except for failure to pay any sum which is due on account of receipt of goods under the provisions of the present contract), if the non-performance results from such Force Majeure circumstances as Flood, Fire, natural disasters like Earthquake etc. and other acts of God as well as War, Military operation, blockade, turmoil, strikes, sabotage, explosions, Acts or Actions of State Authorities or any other circumstances beyond the parties control that have arisen after the conclusion of the present contract.

(b) In such circumstances the time stipulated for the performance of an obligation under the present contract is extended correspondingly for the period of time of action of these circumstances and their consequences.

(c) The party for which it becomes impossible to meet obligations under this contract due to Force Majeure conditions, is to notify in written form the other party of the beginning and cessation of the above circumstances immediately, but in any case not later than 10 (Ten) days from the moment of their beginning.

(d) Certificate of a Chamber of Commerce (Commerce and Industry) or other competent authority or organization of the respective country shall be a sufficient proof of commencement and cessation of the above circumstances.

(e) If the impossibility of complete or partial performance of an obligation lasts for more than 6 (six) months, either party hereto reserves the right to terminate the contract totally or partially upon giving prior written notice of 30 (thirty) days to the other party of the intention to terminate without any liability other than reimbursement on the terms provided in the agreement for the goods received.

(f) Provided the acts of The Government or any state parties of the SELLER which may affect the discharge of the SELLER's obligation under the contract shall not be treated as Force Majeure.

14. Risk & Expense Clause.

(a) Should the stores/services or any installment there of not be delivered within the time or times specified in the contract documents, or if defective delivery is made in respect of the stores/services or any installment thereof, the Buyer shall after granting the Seller 45 days to cure the breach, be at liberty, without prejudice to the right to recover liquidated damages as a remedy for breach of contract, to declare the contract as cancelled either wholly or to the extent of such default.

(b) Should the stores/services or any installment thereof not perform in accordance with the specifications / parameters provided by the SELLER during the check proof tests to be done in the BUYER's premises, the BUYER shall be at liberty, without prejudice to any other remedies for breach of contract, to cancel the contract wholly or to the extent of such default.

(c) In case of a material breach that was not remedied within 45 days, the BUYER shall, having given the right of first refusal to the SELLER be at liberty to purchase, manufacture, or procure from any other source as he thinks fit, other stores/services of the same or similar description to make good:-

(i) such default.

- (ii) in the event of the contract being wholly determined the balance of the stores/services remaining to be delivered there under.
- (d) Any excess of the purchase price, cost of manufacture, or value of any stores/services procured from any other supplier as the case may be, over the contract price appropriate to such default or balance shall be recoverable from the SELLER.
- 15. Transportation. The Transportation arrangement will be the responsibility of the SELLER and same will form part of the contract.
- 16. Franking Clause. The following Franking clause will form part of the contract placed on successful Bidder —
 - (a) Framing Clause in the case of Acceptance of Goods “The fact that the goods have been inspected after the delivery period and passed by the Inspecting Officer will not have the effect of keeping the contract alive. The goods are being passed without prejudice to the rights of the Buyer under the terms and conditions of the contract'.
 - (b) Cranking Clause in the case of Rejection of Goods “The fact that the goods have been inspected after the delivery period and rejected by the Inspecting Officer will not bind the Buyer in any manner. The goods are being rejected without prejudice to the rights of the Buyer under the terms and conditions of the contract.”
- 17. Taxes and Duties - In respect of Indigenous Bidders
 - (a) Goods and Service Tax (GST) The bidder must indicate applicable GST for supply of goods or services as per the latest applicable rates along with the authority.
 - (b) Customs Duty In view of the amendment to exemption of Customs Duty issued vide Govt. of India, Ministry of Finance vide notification No. 19/2019 dated 06 Jul 2019, CDEC will be issued by the Buyer for description of goods specified in ibid notification.

Note: As per guidelines on TDS issued by Ministry of Finance, Department of Revenue vide circular No. 65/39/2018 under reference to F.No.S.31011/11/2018- ST-I-DOR dated 14 Sep 18, under Sec 51 of GST Act 2017 GST TDS will be deducted @2% I/R/O all purchases, supply of Goods or Services or both including contract where total value of such purchases exceeds Rs 2,50,000/- (Rupees Two Lakh Fifty Thousand) excluding GST.

PROFORMA FOR STATEMENT OF DEVIATIONS

(1) The following are the particulars of deviations from the requirements of the EOI specification.

Clause	Deviation	Remarks (including justification)

Signature and seal of the BA/SI

Note: Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "No Deviations".

FORMAT FOR AFFIDAVIT TO BE SUBMITTED BY BA/SI ALONGWITH
THE EOI DOCUMENTS

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

I(Name and Designation)** appointed as the
attorney/authorized

signatory of the BA/SI (including its constituents),

M/s _____ (hereafter called the BA/SI) for the purpose of the EOI
documents for the work of _____ as per the
EOI No. _____ of (_____ --RailTel), do hereby solemnly affirm and state on the
behalf of the BA/SI including its constituents as under:

1. I/we the BA/SI (s), am/are signing the document after carefully reading the contents.
2. I/We the BA/SI(s) also accept all the conditions of the EOI and have signed all the pages in confirmation thereof.
3. I/We hereby declare that I/we have downloaded the EOI documents from RailTel website www.railtelindia.com. I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the EOI Document. In case of discrepancy noticed at any stage i.e. evaluation of EOIs, execution of work or final payment of the contract, the master copy available with the RailTel Administration shall be final and binding upon me/us.
4. I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5. I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted alongwith the offer and the same shall be binding upon me/us.
6. I/We declare that the information and documents submitted along with the EOI by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.

7. I/we undersigned that if the certificates regarding eligibility criteria submitted by us are found to be forged/false or incorrect at any time during the process for evaluation of EOIs, it shall lead to forfeiture of the EOI EMD besides banning of business for five years on entire RailTel. Further, I/we (insert name of the BA/SI)**_____and all my/our constituents understand that my/our offer shall be summarily rejected.

8. I/we also understand the if the certificates submitted by us are found to be false/forged or incorrect at any time after the award of the contract, it will lead to termination of the contract, alongwith forfeiture of EMD/SD and Performance guarantee besides any other action provided in the contract including banning of business for five years on entire RailTel.

DEPONENT SEAL AND SIGNATURE OF THE BA/SI
VERIFICATION

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

DEPONENT SEAL AND SIGNATURE OF THE
BA/SI

Place: Dated:

CONTRACT PERFORMANCE GUARANTEE BOND

(On Stamp Paper of Rs one

hundred) (To be used by approved

Scheduled Banks)

In consideration of the RailTel Corporation of India Limited, Northern Region, 6th Floor, Block III, Delhi IT Park, Shastri Park, Delhi-110053 (Hereinafter called the RailTel) having agreed to exempt (Hereinafter called "the said Contractor(s)") from the demand, under the terms and conditions of an Agreement No. dated made between RailTel Corporation of India Limited and for (hereinafter called "the said Agreement") of security deposit for the due fulfillment by the said Contractor(s) of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs. (Rs. only). We, (indicate the name of the Bank) hereinafter referred to as "the Bank") at the request of Contractor(s) do hereby undertake to pay the RailTel an amount not exceeding Rs against any loss or damage caused to or suffered or would be caused to or suffered by the RailTel by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.

We,(name of Bank) do hereby undertake to pay the amounts due and payable under this Guarantee without any demur, merely on demand from the RailTel stating that the amount as claimed is due by way of loss or damage caused to or would be caused to or suffered by the RailTel by reason of breach by the said Contractor(s) of any of terms or conditions contained in the said Agreement or by reason of the Contractor(s) failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.only.

We,.....(name of bank) undertake to pay to the RailTel any money so demanded

notwithstanding any dispute or disputes raised by the Contractor(s) / Supplier(s) in any suit or proceedings pending before any court or Tribunal relating thereto our liability under this present being, absolute and unequivocal.

The payment so made by us under this Bond shall be a valid discharge of our liability for payment thereunder and the Contractor(s) / Supplier(s) shall have no claim against us for making such payment.

We,(name of bank) further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the RailTel under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till RailTel certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this Guarantee. Unless a demand or claim under the Guarantee is made on us in writing on or before the..... We shall be discharged from all liability under this Guarantee thereafter.

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

This Guarantee will not be discharged due to the change in the Constitution of the Bank or the Contractor(s)/ Supplier(s).

We (the name of Bank) lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the RailTel in writing.

Dated theday of.....2020

for

(indicate the name of the Bank)

Witness

Signature

Name

Signature

Name

Annexure-5

Instructions to Bidders

e-Procurement is the complete process of eTendering from publishing of tenders online, inviting online bids, evaluation and award of contract using the system. You may keep a watch of the tenders floated under <https://railtel.enivida.com>. The link of e-procurement portal is also given on our official railtel portal i.e www.railtelindia.com under TENDER TAB.

These will be invited for online Bids. Bidder Enrolment can be done using "Online Bidder Enrolment".

The instructions given below are meant to assist the bidders in registering on the e-tender Portal, and submitting their bid online on the e-tendering portal as per uploaded bid.

More information useful for submitting online bids on the eNivida Portal may be obtained at:

<https://railtel.enivida.com>

GUIDELINES FOR REGISTRATION:

1. Bidders are required to enrol on the e-Procurement Portal (<https://railtel.enivida.com/bidderRegistration/newRegistration>) or click on the link "Bidder Enrolment" available on the home page of e-tender Portal by paying the Registration fee of Rs.2000/-+Applicable GST. Once Paid, the Registration Fee is 'Non-Refundable'.
2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication with the bidders.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Only Class III Certificates with signing + encryption key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
5. Only valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID /password and the password of the DSC / e-Token.

7. The scanned copies of all original documents should be uploaded in pdf format on e- tender portal.
8. After completion of registration payment, bidders need to send their acknowledgement copy on our help desk mail id eprourement@railtelindia.com for activation of account.

SEARCHING FOR TENDER DOCUMENTS

1. There are various search options built in the e-tender Portal, to facilitate bidders to search active tenders by several parameters.
2. Once the bidders have selected the tenders they are interested in, you can pay the Tender fee and processing fee (both NOT REFUNDABLE) (the amount of Tender Processing Fee to be paid is displayed with the respective tender) by net-banking / Debit / Credit card then you may download the required documents / tender schedules, Bid documents etc. Once you pay both fees tenders will be moved to the respective 'requested' Tab. This would enable the e- tender Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

PREPARATION OF BIDS

1. Bidders should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.
3. Bidders, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF formats. Bid Original documents may be scanned with 100 dpi with Colour option which helps in reducing size of the scanned document.
4. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, GST, Annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Documents" available to them to upload such documents.
5. These documents may be directly submitted from the "My Documents" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for the bid submission process. Already uploaded documents in this section will be displayed. Click "New" to upload new documents.

SUBMISSION OF BIDS

1. Bidders should log into the website well in advance for the submission of the bid so that it gets uploaded well in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document as a token of acceptance of the terms and conditions laid down by Railtel.

3. Bidder has to select the payment option as “e-payment” to pay the tender fee / EMD as applicable and enter details of the instrument.
4. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white Colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
5. The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
6. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
7. Upon the successful and timely submission of bid click “Complete” (i.e. after Clicking “Submit” in the portal), the portal will give a successful Tender submission acknowledgement & a bid summary will be displayed with the unique id and date & time of submission of the bid with all other relevant details.
8. The tender summary has to be printed and kept as an acknowledgement of the submission of the tender. This acknowledgement may be used as an entry pass for any bid opening meetings.

For any clarification in using eNivida Portal:

1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
2. Any queries relating to the process of online bid submission or queries relating to e- tender Portal in general may be directed to the Helpdesk Support.

Please feel free to contact eNivida Helpdesk (as given below) for any query related to e-tendering.

Phone No. 011-49606060/8448288988

Mail id: - eprocurement@railtelindia.com