

REQUEST FOR PROPOSAL (RFP)

FOR

**Engagement of Agency for
Supply, Installation, Commissioning and Maintenance of IT and non-IT
Paraphernalia in connection with setting up of Video Conferencing
Booths in different Prisons of Tripura**

File No. 16(55)/DIT/IT/2017

Date: 18.06.2022

Directorate of Information Technology, Govt. of Tripura

IT Bhavan, ITI Road, Indranagar

Agartala-799006

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1. Executive Summary

1.1 Background

Prisons are an important and integral part of the Criminal Justice System of the country as they not only play the critical role in keeping the offenders in custodial segregation but also help in the process of their reformation and reintegration with the society through various correctional programmes in the Jails.

The Govt. of India is providing financial assistance to States and UTs, through the “Modernization of Prisons” project for a period of five years for using modern-day security equipments in Prisons for enhancing the security of jails and to facilitate the task of reformation and rehabilitation of prisoners through correctional administration.

Under the “Modernization of Prisons” project, one of the core components is Video Conferencing (VC) System, to be used for production of Jail inmates before the courts and for trial proceedings, etc. of high risk inmates. It can also be used for virtual meeting of inmates with their legal counsels and their visitors.

The Hon’ble Chief Justice of the High Court of Tripura desires to make adequate number of VC facilities available and operational in all 13 Prisons of the State of Tripura so that virtual trials of multiple Under Trial Prisoners (UTPs) before different Courts through Video Conferencing at a given time can be conducted effectively.

The existing Desktop VC systems available in the Prisons are a temporary arrangement for conducting VCs. For enabling virtual production of multiple prisoners before different Courts through VC facilities at a given time, multiple VC facilities need to be created in all Prisons under the provision of the 'Modernisation of Prison' project of MHA Gol. All Prisons will have one or more VC booths based on the requirement of concerned Prisons.

1.2 Objective

This document is a Request for Proposal (RFP) for Bidders to quote for Supply, Installation, Commissioning and Maintenance of IT and non-IT Paraphernalia in connection with setting up of Video Conferencing Booths in different Prisons of Tripura, situated across the State.

2. Invitation to the Bid

The invitation to Bid is for Supply, Installation, Commissioning and Maintenance of IT and non-IT Paraphernalia in connection with setting up of Video Conferencing Booths in different Prisons of Tripura, situated across the State.

The Bidders are advised to study this RFP document carefully. Submission of Bids shall be deemed to have been done after careful study and examination of this RFP document with full understanding of its implications. This section provides general information about the Prisons of Tripura, important dates and addresses and the overall eligibility criteria for the Bidders.

2.1 Prisons in Tripura

In Tripura, a Central Jail was established in the year 1874 at Dhaleswar, Agartala, by the then Maharaja Birchandra Manikya Bahadur, who also reformed the Royal Prison Administration in the line of British Administration. Subsequently on 01.11.2013 the Central Jail, Agartala has been shifted to the new premises at Bishalgarh and started its establishment in the name of Kendriya Sansodhanagar Tripura, Bishalgarh with accommodation capacity of 1000 prisoners.

From beginning, the office of the Prisons Directorate was accommodated within the perimeter wall of Central Jail, Agartala. But in 1994 the office of Prisons Directorate has been shifted to new office building adjacent to Central Jail, Agartala separately.

Presently, there are 01 (one) Kendriya Sansodhanagar, 02 (two) District Jails and 10(ten) Sub-Jails in Tripura. That Apart, one Female Jail also exists in the complex of Kendriya Sansodhanagar, Bishalgarh.

2.2 Issuer

Directorate of Information Technology, Govt. of Tripura, invites proposals for Supply, Installation, Commissioning and Maintenance of IT and non-IT Paraphernalia in connection with setting up of Video Conferencing Booths in different Prisons of Tripura, as per the scope of the Bid.

2.3 Address for Bid Submission & Correspondence

The Director
Directorate of Information Technology (DIT),
Government of Tripura
IT Bhavan, ITI Road, Indranagar, Agartala, Tripura
PIN – 799006

2.4 Key Events, Dates and Important Information

Sl. No.	Event/Information	Details
1	Tender No.	Tender No. 16(55)/DIT/IT/2017
2	Tender Publication Detail	The tender form can be seen and downloaded from the website https://tripuratenders.gov.in .
3	Date of Publishing of Bid	18-06-2022
4	Last Date & Time of Receiving Queries	24-06-2022 upto 5:00 pm
5	Pre-Bid Meeting	27-06-2022 at 11:30 am
6	Last Date and Time for Submission of	08-07-2022 upto 5:00 pm

Sl. No.	Event/Information	Details
	e-Bid	
7	Date and Time of Opening of Pre-qualification & Technical Bids	12-07-2022 at 11:00 pm
8	Date & Time for opening of commercial bids	Will be intimated later
9	Bid Validity Period	180 days from the last date for submission of bids.
10	Tender Fee	Rs. 1,000/- (Non-refundable)
11	EMD Amount	Rs. 3,50,000/- (Refundable)
12	Estimated Cost	Rs.1,72,26,000.00
13	Performance Bid Security (PBG) Amount	5% of work order value
14	Contact person	Shri Bidyut Datta, Additional Director, IT, Govt. of Tripura
15	Contact email	bidyut.datta@nic.in
16	Contact Phone No.	+91 70054 40358

2.5 Distribution of RFP Document

The tender document can be downloaded from <https://tripuratenders.gov.in> portal free of cost.

2.6 Pre Bid Conference

The DIT shall organize a Pre Bid Conference on the scheduled date and time in the Conference Hall of Directorate of Information Technology. DIT may incorporate any changes in the RFP based on acceptable suggestions received during the interactive Pre Bid Conference. The decision of the DIT regarding acceptability of any suggestion shall be final and shall not be called upon to question under any circumstances. The prospective Bidders shall submit their questions in writing not later than Date and Time indicated under section 2.4 above. It may not be possible at the Pre Bid Conference to answer questions which are received late. However, prospective Bidders are free to raise their queries during the meeting and responses will be conveyed to all the prospective Bidders (by way of hosting amendments/clarifications on the website i.e. at <https://tripuratenders.gov.in> in accordance with the respective clauses of the RFP within specified time at section 2.4 above and no participant would be intimated individually about the response of the DIT. The prospective participants have to inform DIT on the email id mentioned in Section 2.2 for attending the pre-Bid conference.

2.7 Amendment of RFP Document

At any time before the deadline for submission of Bids, the DIT may, for any reason, whether at own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding document by amendment. All the amendments made in the document would be published on the website <https://tripuratenders.gov.in>. The Bidders are also advised to visit the aforementioned website on regular basis for checking necessary updates. DIT also reserves the right to amend the dates mentioned in clause 2.4 of this Bid document.

2.8 Deadline for submission of Proposal

The Bid response shall be submitted in the <https://tripuratenders.gov.in>, not later than date and time specified in Section 2.4 of this document.

3. Eligibility Criteria

The Bidder must possess the requisite experience, strength and capabilities in providing the services necessary to meet the requirements as described in the RFP document. Keeping in view the complexity and volume of the work involved, the following criteria are prescribed as Pre-Qualification Criteria for Bidder interested in undertaking the project. The Bidder must also possess the Technical know-how and the Financial wherewithal that would be required to successfully provide the required support services sought by DIT. The Bids must be complete in all respect and should cover the entire scope of work as stipulated in the RFP document. The invitation to Bid is open to all Bidders who qualify the eligibility criteria as given below:

Table 1: Pre-Qualification Criteria

Sl. No.	Clause	Documents Required
1	The Bidder shall submit tender fee of Rs.1,000/- (non-refundable) to be paid online in the https://tripuratenders.gov.in portal and shall submit EMD of Rs.3,50,000/- (Rupees Three Lakh Fifty Thousand only) through online in the https://tripuratenders.gov.in portal.	1. Online receipt on deposit of tender fee of Rs.1,000/- (non-refundable) to be paid online in the https://tripuratenders.gov.in portal. 2. Online receipt on deposit of EMD of Rs.3,50,000/- (Rupees Three Lakh Fifty Thousand only) to be paid online in the https://tripuratenders.gov.in portal.
2	The Bidder should be: (a) an Indian Firm (b) Registered under the Companies Act 1956/2013	Certificate of Incorporation
3	The Bidder shall have an annual turnover of INR 10.00 crore in each of the last three (3) financial years ended on 31/03/2021.	Audited and Certified Balance Sheet of last 3 Financial Years up to 31/03/2021 should be enclosed. Chartered Accountant certificate for Turnover for last 3 Financial Years up to 31/03/2021 should be attached.
4	The bidder should submit valid letter from the OEMs (for IT Equipment) confirming following: Authorization for bidder confirming that the products quoted are not end of life products. Undertake that the support including spares, patches for the quoted products shall be available for next 5 years.	OEM Authorization
5	The bidder shall/will not be under a declaration of ineligibility for corrupt or fraudulent practices or blacklisted with any of the Government agencies.	Declaration in this regard should be submitted by the bidder.
6	The Bidder shall be having the following Quality Certificates: ISO 9001 and ISO 20000	Copy of valid Certificates

Sl. No.	Clause	Documents Required
7	<p>Bidder's experience of having successfully completed supply, installation, commissioning and maintenance of VC Systems:</p> <p>a) for State/ Central Govt. Agencies or PSUs or PSU Banks or Financial Institutions of State/Central Govt. will be considered.</p> <p>b) Single Project an order values not less than Rs.1.50 crore or Two Projects order values not less than Rs.90 lakh for each projects or Three or more Projects order values not less than Rs.70 lakh for each projects will be considered during the period from 1st April 2017 to previous day of floating of the tender.</p> <p>Any of the combination of above project categories will be treated as one project unit.</p>	<p>Work Order + Completion Certificates from the client;</p>

Note: The Bidder has to ensure that while submission of the Bids, all the pages of the Bids are signed by the competent authority and also all the pages are numbered and properly indexed. If any of the Bids is found to be without proper signature, page numbers and index, it will be liable for rejection.

4. Scope of Work

Presently, there are 01 (one) Kendriya Sansodhanagar, 02 (two) District Jails and 10(ten) Sub-Jails in Tripura. That Apart, one Female Jail also exists in the complex of Kendriya Sansodhanagar, Bishalgarh.

The Hon'ble High Court of Tripura desires to make adequate number of Video Conferencing (VC) facilities available and operational in all 13 (thirteen) Prisons of Tripura so that virtual trials of multiple Under Trial Prisoners (UTPs) before different Courts through Video Conferencing at a given time can be conducted effectively.

The scope of work for the bidder shall be as follows:

- a) Supply of IT and Non-IT equipment including furniture,
- b) Installation and Commissioning of VC Systems,
- c) Demonstration of all the features of the solution and facilitate the Final Acceptance Testing (FAT),
- d) Post FAT support and maintenance for the period of 5 (five) years.

4.1 Supply of IT and Non-IT equipment to 13 Prisons

- a) Supply the IT and Non-IT equipment including furniture, as per the 'Bill of Material' section and as per the specifications defined in this RFP with all the requisite spares and components (hardware and software) to different Prisons of Tripura as per the location-wise matrix given in Annexure-IV of this RFP.
- b) The proposed Studio VC/ Desktop VC system and its associated parts/ items including the Field Replaceable Units (FRUs) should not be End of Sale in next 3 years and End of Service Life in the next 6 years from the date of submission of the proposal.

4.2 Installation and Commissioning of VC System in 13 Prisons

- a) The successful bidder shall be responsible for installation of all the VC system alongwith related/necessary paraphernalia including non-IT equipment at the locations specified in this RFP.
- b) The successful bidder shall be responsible for commissioning of the VC systems (Studio VC / Desktop VC) in the VC booths and connecting the same with the Point-to-Point Leased Circuit and/or Internet Circuits in different Format as available in those locations. Necessary internet connectivity will be provided by the Tender Issuer.
- c) The successful bidder shall be responsible for setting up the Wide Area Connectivity using supplied connectivity device and doing necessary configuration to establish connectivity with different Courts & other Judiciary locations as directed.
- d) The successful bidder shall be responsible for setting up necessary Local Area Network in a structured manner following the industry standard practices inside Prison VC facility to connect different connectivity devices, VC devices and Desktop/Laptop etc. as directed.
- e) The successful bidder shall be responsible for setting up necessary furniture & fixtures and VC, display etc. and all other equipment in a proper manner with electrical connectivity and network connectivity as required.
- f) The successful bidder shall be responsible to upgrade all the firmware of all types of devices to the latest version post initialization of the VC solution and shall also install and configure all the requisite software required to monitor & manage the solution.
- g) The OEM shall provide necessary software upgrades/updates free of cost during the warranty period.

4.3 Demonstrate all the features of the solution and facilitate the FAT

- The successful bidder shall be responsible for demonstrating all the features mentioned in the RFP, proposal and the data sheet of the VC solution supplied.
- The successful bidder shall be responsible for drafting the test cases for the final acceptance of the supplied VC solution in liaison with DIT and shall also demonstrate and document all the results of the test cases.
- The successful bidder shall be responsible for training the DIT appointed Technical Manpower on the management of the supplied VC solution.
- The successful bidder shall be responsible for drafting and submitting the Standard Operating Procedure (SOP) for management of the supplied VC solution.

4.4 Post FAT Support and Maintenance

- The successful bidder shall be responsible for support for warranty period for any technical support required for smooth functioning of the supplied VC solution or its paraphernalia within 12 hours of any such support request raised.

5. Bill of Material (BoM)

List of Components

Sl. No.	Item Description	Make	Model
I	II	III	IV
1	Room Based - All-in-One VC Endpoint		
2	Display Unit 32"		
3	Network Rack 6U		
4	Network Switch (16 Port)		
5	Router with Firewall		
6	2 KVA UPS (2 hrs backup) with batteries		
7	5 KVA UPS (2 hrs backup) with batteries		
8	Integrated USB all-in-one desktop conferencing device with battery backup		
9	Desktop Computer		
10	Laptop Computer		
11	Table for Display Unit / VC System		
12	Table for Desktop Computer		
13	Chair		
14	Small Table for Microphone Unit		
15	LAN Cabling		
16	Installation, fitting, fixing etc.		
17	Any other item		

Note: In addition to the serial number 1 to 17 above, any other item(s) proposed which is/are necessary for successful completion of the scope of this RFP, should be clearly mentioned in un-priced BOM and BoQ sheet as well as in the technical bids submitted by the bidders.

6. Instruction to the Bidders

6.1 Procedure for Submission of Bids

Download of Tender Document: The tender form can be seen and downloaded from the website <https://tripuratenders.gov.in> and also from Directorate of IT website at <https://dit.tripura.gov.in> and State Portal at <https://tripura.gov.in>. The stated Tender is in e-Tender mode with built-in e-Bid and their online evaluation and can only be accessed through <https://tripuratenders.gov.in>.

Modes of Submission: Bidders must submit the Bid response in 4 (four) parts, post registration in <https://tripuratenders.gov.in>, as under:

PART-I:

Tender Fee and EMD: Bidders need to submit a tender fee of Rs.1,000 /- (non-refundable) to be paid online in the <https://tripuratenders.gov.in> portal. The bidders have to submit Earnest Money Deposit (EMD) of Rs.3,50,000/- (Rupees Three Lakh Fifty Thousand only) to be paid online in the <https://tripuratenders.gov.in> portal. No other fee like Tender Processing Fee etc. except Tender Fee and EMD are applicable for this RFP.

Online payment of Tender Fee is to be paid electronically using the Online Payment Facility provided in the Portal. For online payment of Tender Fee please follow the following process.

- a) After initiating the Bid Submission Process from "My Tender" option, an "Online Payment" page will appear which will display the total Tender Fee
- b) On submission of Tender Fee payment option, System will redirect to the SBI Bank MOPS window.
- c) SBI MOPS will have two options for Net Banking- "SBI" & "Other Banks". Bidder can choose any of the options as desired and can complete the Online Payment process.
- d) Tenders which are not accompanied by Tender fee or incomplete in any respect will be rejected out-rightly.

Submission of EMD

- a) EMD is to be paid electronically using the Online Payment Facility provided in the Portal.
- b) EMD of the bidder may be forfeited if in any case found to have made in false Declaration or Claims.
- c) Bidders exempted under specific Government order/ rules from submitting EMD have to furnish Scan copy of the related Governments order/rules in English language, along with the tender in support of their claim exemption.

PART-II: Pre-qualification Bid Pre-qualification bid response documents need to be digitally signed before uploading in the above said portal. All documents to be submitted as pre-qualification bid responses are free-format. For all the free-format documents, Bidder is expected to scan the relevant documents into PDF format (in 100 dpi scan resolution).

PART-III: Complete technical details, solution, data sheet, technical specification for the item offered, Bill of Material as per templates at section 5 of this document & any other relevant documents.

PART-IV: Financial Bid Complete financial details as per Bill of Quantity (BoQ).

Note: A bid submitted without the tender fee (to be submitted online) and EMD (to be submitted online) and incomplete bids shall not be considered and the same will be rejected.

6.2 Authentication of Bid

The response Bid shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. A letter of authorization shall be supported by a written Power-of-Attorney

accompanying the Bid. All pages of the Bid, except for un-amended printed literature, shall be initialled and stamped or Digitally Signed by the person or persons signing the Bid.

6.3 Validation of interlineations in Bid

The Bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be initialled by the person or persons signing the Bid.

6.4 Cost of Bidding

The Bidder shall bear all costs associated with the preparation and submission of its Bid including cost of presentation for the purposes of clarification of the Bid, if so desired by the DIT. DIT will in no case be responsible or liable for those costs, regardless of the outcome of the Tendering process.

6.5 Language of Bids

The Bids prepared by the Bidder and all correspondence and documents relating to the Bids exchanged by the Bidder and DIT, shall be written in English language. Any printed literature furnished by the Bidder may be written in another language so long the same is accompanied by a duly attested English translation in which case, for purposes of interpretation of the Bid, the English translation shall govern

6.6 Documents Comprising the Bids

The Bid prepared by the Bidder shall comprise the following components. The Bids not conforming to the requirements shall be summarily rejected.

Pre-Qualification Bid

In support of eligibility, a Bidder must submit the following documents (besides the other requirements of the tender), original copies or attested copies, as the case may be, in the absence of which the Bid will be rejected.

- Section VIII – Format 1: Pre-qualification Bid Letter
- Section VIII – Format 2: General information about the Bidder
- Section VIII – Format 3: Declaration regarding Clean Track Record
- Section VIII – Format 4: Declaration of acceptance of Terms & Conditions in the RFP.
- All required document for eligibility criteria mentioned at Section 3.

Technical Bid

The Technical Bid, besides the other requirements of the Tender, shall comprise the following:

- Section IX – Format 1: Technical Bid Letter
- Section IX – Format 2: Technical Evaluation Criteria
- Section IX – Format 3: Deviations from the Tender Terms & Conditions
- Section IX – Format 4 Project Experience Details
- Section V – Bill of material
- Compliance sheet on Technical Specification of IT Component - Section 11 - Annexure-III
- All necessary data sheets and any other documents.

Financial Bid

The Commercial Bid, besides the other requirements of the Tender, shall comprise the following:

- Filled BoQ.

6.7 Bid Prices

The Bidder shall prepare the Bid based on details provided in the Tender Document. It must be clearly understood that the scope of work is intended to give the Bidder an idea about the order

and magnitude of the work and is not in any way exhaustive and guaranteed by the DIT. The Bidder shall carry out all the tasks in accordance with the requirement of the Tender Document & due diligence and it shall be the responsibility of the Bidder to fully meet all the requirements of the Tender Document.

6.8 Firm Prices

Prices quoted in the Bid must be firm and final and shall not be subject to any upward modifications on any account whatsoever. However, the DIT reserves the right to negotiate the prices quoted in the Bid to effect downward modification.

6.9 Bid Currency

Prices shall be quoted in Indian Rupees (INR).

6.10 Bid Security (Earnest Money Deposit)

The Bidder shall submit EMD (to be paid online) of Rs.3,50,000/- (Rupees Three Lakh Fifty Thousand only) as mentioned in this tender document. The Bidder shall be disqualified in the Pre-Qualification process if the prescribed EMD is not submitted. The EMD (Bid security) of the unsuccessful Bidder/s will be discharged/ returned as promptly as possible, but not later than 60 days after the issuance of Letter of Intent (LoI) to the successful Bidder. No interest will be paid by DIT on the amount of the Bid Security.

The Bid security may be forfeited because of the following reasons:

1. If a Bidder withdraws the Bid or increases the quoted prices during the period of Bid validity, or its extended period, without the explicit consent of the department, if any; or
2. In the case of a successful Bidder, if s/he fails within specified time limit to:
 - Sign the Agreement as per RFP and subsequent Bid Document; or
 - Furnish the required Performance Bank Guarantee (PBG).

6.11 Bid Validity Period

Period of Validity of Bids shall remain valid for 180 days after the date of opening of Bids prescribed by the DIT. A Bid valid for a shorter period may be rejected as non-responsive. However, the prices finalized after opening the tenders shall not increase throughout the period of implementation and operation. The prices of components quoted in the Financial Bid by the Bidder shall remain valid for the project period. Extension of Period of Validity in exceptional circumstances, DIT may request the Bidder(s) for an extension of the period of validity. The request and the responses thereto shall be made in writing (or by fax).

6.12 Withdrawal of Bids Written Notice

The Bidder may withdraw its Bid after the Bid submission, provided that DIT receives written notice of the withdrawal, prior to the last date prescribed for receipt of Bids. The Bidder's withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions said earlier. A withdrawal notice may also be sent by fax but followed by a signed confirmation copy, post marked not later than the last date for receipt of Bids.

6.13 Opening of Bids

An evaluation committee will be formed for evaluation of the bids. Decision of the committee would be final and binding upon all the Bidders. The Client will first open the Pre-Qualification Bid, next Technical Bid, next Financial Bid in the presence of the representatives of the Bidders, who choose to attend, at the time, date and place, as mentioned in section 'Invitation for Bids – Key Events & Dates' (or communicated later to all qualified bidders). In the event of the specified date of Bid opening being declared a holiday for the Client, the Bids shall be opened at the appointed

time and location on the next working day. Bid response details considered appropriate will be announced at the bid opening.

Bids Not Considered for Evaluation: Bids that are rejected during the Bid opening process due to incomplete documentation or late receipt shall not be considered for further evaluation.

6.14 Evaluation of Pre-Qualification Bid, Technical Bid and Commercial Bid

- A three-stage procedure will be adopted for evaluation of bids, with the pre-qualification being completed (as per pre-qualification criteria) in first stage, technical evaluation at second stage and financial evaluation at third stage.
- Technical Bids will be opened only for the Bidders who succeed the pre-qualification criterion. Technical bids will be evaluated as per technical bid evaluation criteria and a technical score will be given to the technically qualified bidders.
- The commercial Bids of only the technically qualified Bidders will be opened and evaluated as per specified criteria.
- Conditional Bids are liable to be rejected.

The evaluation process of the Tender, proposed to be adopted by DIT is indicated under the clauses 6.15, 6.16, 6.17 and 6.18. The purpose of these clauses is only to provide the Bidders an idea of the evaluation process that DIT may adopt. However, DIT reserves the right to modify the evaluation process at any time during the Tender process, without assigning any reason, whatsoever and without any requirement of intimating the Bidders of any such change.

6.15 Evaluation of Pre-Qualification Bid

- Bidders need to fulfill all the pre-qualification conditions mentioned in Pre-Qualification Criteria of the RFP. DIT will examine the Bids to determine whether they are complete, whether the Bid format confirms to the Tender requirements, whether any computational errors have been made, whether required Tender Fee and EMD have been submitted, whether the documents have been properly signed, and whether the Bids are generally in order.
- A Bid determined as not substantially responsive will be rejected by DIT and may not subsequently be made responsive by the Bidder by correction of the nonconformity.
- The DIT may waive any informality or non-conformity or irregularity in a Bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.
- The DIT may at any point of time ask clarifications from the Bidders for getting more clarity of the proposal received. The clarification shall be given in writing immediately, but no change in the price shall be sought, offered or permitted.

6.16 Evaluation of Technical Bid

- After qualifying the Pre-qualification criteria, Technical Bid document will be evaluated as per the requirements specified in the RFP.
- Technical Bids of the short-listed Bidders will be reviewed to determine whether these are substantially responsive. Bids that are not substantially responsive are liable to be disqualified.
- Technical bid evaluation will be done based on the Technical Bid Evaluation Criteria specified in the RFP. All the Bidders who score a Technical Score of (70%) or more will be declared as technically qualified. It is, however, clarified that, subject to other provisions of this Document, every Bidder will have to comply the minimum technical specifications laid down in the RFP for being qualified technically.
- In order to assist in the examination, evaluation and comparison of Bids, DIT may at its

discretion ask the Bidder for a clarification regarding its Bid. The clarification shall be given in writing immediately, but no change in the price shall be sought, offered or permitted.

- The DIT may request the Bidders to make a presentation on their proposal to an Evaluation Committee to be constituted for the purpose.
- The DIT may waive any informality or non-conformity or irregularity in a Bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

6.17 Evaluation of Financial Bids

- The commercial Bids of only the technically qualified Bidders will be opened and reviewed to determine whether the commercial bids are substantially responsive.
- The commercial Bids would be evaluated as per specified criteria.
- The commercial Bids would be evaluated based on the overall price quoted.

6.18 Criteria for Final Evaluation of Bids

On opening the financial bids, the Evaluation Committee shall read out the financial bids to all the technically qualified bidders and note the same. All the financial bids shall then be ranked according to the financial bid in increasing order with the bidder quoting the least amount ranked L1, bidder quoting next higher figure as L2 and so on. In case there is any tie in financial bids of one or more bidders, the bidder having the higher technical score will be given better ranking. In case the technical scores are also equal, all the technically qualified bidders shall be asked to resubmit the financial bid. However, in this case, the revised financial bids should be less than the lowest financial bid quoted earlier by the technically qualified bidders. L1 will be declared as successful bidder and his offer will be processed further.

6.19 Rectification of Errors

Arithmetical errors in the Financial Bid will be rectified on the following basis.

- If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and will be considered for future calculations.
- If there is a discrepancy between words and figures, the amount in words shall prevail.

Note: In any other case of discrepancy, DIT reserves the right to pick the value which it considers as beneficial to the Government.

6.20 Contacting the DIT

Contact by Writing: No Bidder shall contact DIT on any matter relating to its Bid, from the time of Bid opening to the time the Contract is awarded. If the Bidder wishes to bring additional information to the notice of DIT, it should be done in writing.

Rejection of Bid: Any effort by a Bidder to influence the DIT in its decisions on Bid evaluation, Bid comparison or contract award may result in rejection of the Bidder's Bid.

6.21 Rejection Criteria

Besides other conditions and terms highlighted in the tender document, Bids may be rejected under following circumstances:

Pre Qualification Rejection Criteria:

- Bids submitted without or with improper EMD (as Bank Guarantee).
- Bids which do not conform to unconditional validity of the Bid as prescribed in the Tender.
- Pre-Qualification Bid containing commercial details.

- If the information provided by the Bidder is found to be incorrect / misleading at any stage / time during the Tendering Process.
- Any effort on the part of a Bidder to influence the Bid evaluation, Bid comparison or contract award decisions.
- Bids received by DIT after the last date prescribed for receipt of Bids.
- Bids without signature/Digital Signature of person (s) duly authorized on required pages of the Bid.
- Bids without power of authorization and any other document consisting of adequate proof of the ability of the signatory to bind the Bidder.
- Failure to furnish proofs for information provided.

Technical Rejection Criteria:

- Technical Bid containing commercial details.
- Revelation of Prices in any form or by any reason before opening the Commercial Bid.
- Failure to furnish all information required by the RFP Document or submission of a Bid not substantially responsive to the Tender Document in every respect.
- Failure to furnish proofs for information provided.
- Bidders not quoting for the complete scope of Work as indicated in the Tender documents, addendum (if any) and any subsequent information given to the Bidder.
- Bidders not complying with the Technical and General Terms and conditions as stated in the RFP Documents other than the deviations.
- The Bidder not conforming to unconditional acceptance of full responsibility of providing services in accordance with the Scope of work of this tender.
- If the Bid does not confirm to the timelines indicated in the Bid.

Commercial Rejection Criteria

- Incomplete Price Bid.
- Price Bids that do not conform to the Tender's price Bid format.
- Total price quoted by the Bidder does not include all statutory taxes and levies applicable.

6.22 Concessions permissible under statutes

Bidder, while quoting against this tender, must take cognizance of all concessions permissible under the statutes including the benefit under Central Sale Tax Act, 1956, failing which it will have to bear extra cost where Bidder does not avail concessional rates of levies like customs duty, excise duty, sales tax, etc. DIT will not take any responsibility towards this. However, DIT may provide necessary assistance, wherever possible, in this regard.

6.23 Income Tax Liability

The Bidder will have to bear all Income Tax liability both corporate and personal tax.

6.24 GST Liability

The Bidder will have to bear all GST.

6.25 Performance Security

3% of contract value required to be submitted in the form of Bank Guarantee for 38 month by the successful bidder as performance security.

7. General Conditions of Contract

7.1 Ownership of Equipment

The DIT shall own all the equipment, Licenses and any solution supplied by the Bidder arising out of or in connection with this Contract.

7.2 Payment

The fee amount will be equal to the amount specified in Format for Tender Response – Commercial Bid. Payments will be released only after successful FAT.

7.3 Payment Terms & Schedule

Sl. No.	Milestone	% of Payment to be released
1	Delivery, Installation and Successful FAT	<ul style="list-style-type: none"> 70% order value after delivery of all items in each locations, 10% order value after successful supply, installation, commissioning & submission of Final Acceptance Certificate, Another 20% will be paid on annually @4% per year after completion of each year during support period of 5 years.

- Payment will be made to successful Bidder as per above mentioned schedule.
- Penalty as per the RFP terms and conditions will be calculated and adjusted from the bill.
- All payments to successful Bidder will be made subject to deduction of TDS (Tax deduction at Source) as per the income Tax Act, 1961, applicable penalty and other taxes, if any, as per Government of India rules.
- If there is any deficiency in the performance of contractual obligations on the part of the Bidder, the Bidder shall be liable for imposition of appropriate penalties as specified in the RFP and DIT shall be entitled to deduct such penalties at source while making payment to the Bidder for the services provided as mentioned & forfeit the guarantee submitted (if required).

7.4 Delivery Schedule

Delivery of all the equipment will be within **5 weeks** after the allotment of work order from DIT. If the vendor fails to deliver the equipment within the time period(s) specified in this tender document, the DIT, may without prejudice to its other remedies under the agreement, levy as penalties, for each week or part thereof of delay, until actual delivery of performance. Moreover, if delay exceeds 6 weeks, DIT reserves the right to terminate the work order and also forfeit the Security deposit and may blacklist the agency, if suitable justification is not given by the Agency.

Delay in Weeks	Penalty
Up to 1	1% of the Work Order amount.
Up to 2	2% of the Work Order amount.
Up to 3	3% of the Work Order amount and so on.
Up to 6	10% of the Work Order as maximum penalty

Note: In case of Force Majeure, the DIT may consider waiving off the penalty for that period of delay. However, the Vendor should submit justification alongwith necessary documentary evidence for claiming the waiver of penalty (if any).

7.5 Penalty

Sl. No.	Items	Target	Penalties (Yearly)
1	Installation of all IT, Non-IT Components, integration, Final Acceptance Test (FAT) and Go-Live for all location.	1 weeks from the date of delivery.	A Penalty of 0.25% of Capex for every week or part thereof delay upto 6 weeks delay. Beyond 6 weeks, penalty would be 0.5% of Capex for every week or part thereof.
2	All active equipment for each node	48 hours	Beyond 2 days of unavailability for a single node, penalty would be Rs.500/- for every day or part thereof.
3	Other passive equipment	1 Week	Beyond 7 days for a single node, penalty would be Rs.200/- for every day or part thereof.

7.6 Force Majeure

- Force Majeure shall not include any events caused due to acts/omissions of such Party or result from a breach/contravention of any of the terms of the Contract, Bid and/or the Tender. It shall also not include any default on the part of a Party due to its negligence or failure to implement the stipulated/proposed precautions, as were required to be taken under the Contract.
- The failure or occurrence of a delay in performance of any of the obligations of either party shall constitute a Force Majeure event only where such failure or delay could not have reasonably been foreseen or where despite the presence of adequate and stipulated safeguards the failure to perform obligations has occurred. In such an event, the affected party shall inform the other party in writing within five days of the occurrence of such event. DIT will make the payments due for Services rendered till the occurrence of Force Majeure. However, any failure or lapse on the part of the bidder in performing any obligation as is necessary and proper to negate the damage due to projected force majeure events or to mitigate the damage that may be caused due to the above mentioned events or the failure to provide adequate disaster management/recovery or any failure in setting up a contingency mechanism would not constitute force majeure, as set out above.
- In case of a Force Majeure, all Parties will endeavour to agree on an alternate mode of performance in order to ensure the continuity of service and implementation of the obligations of a party under the Contract and to minimize any adverse consequences of Force Majeure.

8. Format for Response to the Tender: Pre-Qualification Bid

This section provides the outline, content and the formats that the Bidders are required to follow in the preparation of the Pre-Qualification Bid.

8.1 Format 1 – Pre-Qualification Bid Letter

To
The Director
Information Technology,
Government of Tripura,
IT Bhavan, ITI Road, Indranagar,
Agartala, Tripura, PIN – 799006

Subject: Engagement of Agency for Supply, Installation, Commissioning and Maintenance of IT and non-IT Paraphernalia in connection with setting up of Video Conferencing Booths in different Prisons of Tripura.

Reference: Tender No: <TENDER REFERENCE NUMBER> Dated <DD/MM/YYYY>

Sir,

We, the undersigned Bidders, having read and examined in detail all the Tender documents, do hereby propose to provide the services as specified in the Tender document number <TENDER REFERENCE NUMBER> Dated <DD/MM/YYYY> along with the following:

1. EARNEST MONEY DEPOSIT (EMD)

We have submitted EMD (as Bank Guarantee) for the sum of Rs.3,50,000/- (Rupees Three Lakh Fifty Thousand only). This EMD is liable to be forfeited in accordance with the provisions of the Section 7 - General Conditions of the Contract.

2. CONTRACT PERFORMANCE GUARANTEE BOND

We hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee bond in the form prescribed in Annexure II of Section 11.

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.

We understand that our bid is binding on us and that you are not bound to accept a bid you receive.

Yours faithfully,

(Signature of the Bidder)

Printed Name:

Designation:

Seal:

Date:

Business Address:

8.2 Format 2 - General Information about the Bidder

Details of the Bidder (Company)				
1	Name of the Bidder			
2	Address of the Bidder			
3	Status of the Company (Public Ltd/ Pvt. Ltd)			
4	Details of Incorporation of the Company		Date:	
			Ref. #	
5	Details of Commencement of Business		Date:	
			Ref. #	
6	Valid Goods and Service Tax (GST) registration no.			
7	Permanent Account Number (PAN)			
8	Name & Designation of the contact person to whom all references shall be made regarding this tender			
9	Telephone No. (with STD Code)			
10	E-Mail of the contact person:			
11	Fax No. (with STD Code)			
12	Website			
13	Financial Details (as per audited Balance Sheets) (in crore)			
14	Year	2018-2019	2019-2020	2020-2021
15	Net Worth			
16	Turn Over in INR			

8.3 Format 3 - Declaration Regarding Clean Track Record

To
The Director
Information Technology,
Government of Tripura,
IT Bhavan, ITI Road, Indranagar,
Agartala, Tripura, PIN – 799006

Sir,

I have carefully gone through the Terms & Conditions contained in the RFP Document [No. _____] regarding Engagement of an Agency for Supply, Installation, Commissioning and Maintenance of IT and non-IT Paraphernalia in connection with setting up of Video Conferencing Booths in different Prisons of Tripura. I hereby declare that my company has not been debarred/black listed by any Government/Semi-Government organizations in India. I further certify that I am competent officer in my company to make this declaration.

Yours faithfully,

(Signature of the Bidder)

Printed Name

Designation

Seal

Date:

Business Address:

9. Format for Response to Tender: Technical Bid

9.1 Format 1 – Technical Bid Letter

To
The Director
Information Technology,
Government of Tripura,
IT Bhavan, ITI Road, Indranagar,
Agartala, Tripura, PIN – 799006

Subject: Engagement of an Agency for Supply, Installation, Commissioning and Maintenance of IT and non-IT Paraphernalia in connection with setting up of Video Conferencing Booths in different Prisons of Tripura.

Reference: Tender No:<Tender Reference Number>Dated <dd/mm/yyyy>

Sir,

We, the undersigned Bidder, having read and examined in detail all the Tender documents do hereby propose to provide the services as specified in the Tender document number <Tender Reference Number>Dated <dd/mm/yyyy>along with the following:

1. Earnest Money Deposit (EMD)

We have submitted EMD for the sum of Rs.3,50,000/- (Rupees Three Lakh Fifty Thousand only). This EMD is liable to be forfeited in accordance with the provisions of RFP.

2. Deviations

We declare that all the services shall be performed strictly in accordance with the Tender documents except for the variations, assumptions and deviations, all of which have been detailed out exhaustively in the following statements, irrespective of whatever has been stated to the contrary anywhere else in our Tender:

- Statement of Deviations from Tender Terms and Conditions is as specified in General Terms and Conditions

Further, we agree that additional conditions or assumptions, if any, found in the Tender documents other than those stated in deviation schedule shall not be given effect to.

3. Contract Performance Guarantee Bond

We hereby declare that in case the contract is awarded to us, we shall submit the Contract Performance Guarantee Bond in the form prescribed in the RFP.

4. Bid Validity Period

We agree to abide by this Bid for a period of 180 days after the date fixed for Bid opening or for any further period for which Bid validity has been extended and it shall remain binding upon us and Bid may be accepted at any time before the expiration of that period.

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.

We understand that our Bid is binding on us and that you are not bound to accept a Bid you receive.

Yours faithfully,

(Signature of the Bidder)

Printed Name

Designation

Seal

Date:

Business Address:

9.2 Format 2 – Technical Evaluation Criteria

Criteria for Evaluation and Comparison of Technical Bids

The criterion as mentioned in section below shall be used to evaluate the technical Bids. All the Bids scoring at least 70% (70 marks out of 100 marks as per the evaluation criteria below) and above in the technical evaluation will be qualified for commercial Bid opening.

The financial Bids of only those Bidders will be opened and considered who have scored at least 70 marks in the Technical Evaluation as specified above.

Sl. No.	Criteria	Documents Required	Point System (Total 100 Marks)
1	<p>Bidder should be in existence for minimum 5 years. The Bidder should be:</p> <ul style="list-style-type: none"> • an Indian Firm • Registered under the Companies Act 1956/2013 	Certificate of Incorporation	<p>>=5 years to <=8 years= 5 marks; >8 years to <=12 years = 8 marks; >12 years = 10 marks;</p>
2	<p>The Bidder shall have an annual turnover of INR 10.00 crore in each of the last three (3) financial years ended on 31/03/2021.</p>	<p>Copy of the audited profit and loss account/ balance sheet/annual report of last three financial years (up to 31-March-21) should be attached.</p> <p>CA certificate clearly indicating turnover of last three financial years (up to 31-March-21) should also be attached.</p>	<p>Average Turnover >= 10 crore to <= 12 crore = 10 marks; Average Turnover > 12 crore to <= 15 crore = 15 marks, Average Turnover > 15 crore = 20 Marks</p>
3	<p>Bidder's experience of having successfully completed supply, installation, commissioning and maintenance of Video Conferencing Systems:</p> <p>a) for State/ Central Govt. Agencies or PSUs or PSU Banks or Financial Institutions of State/Central Govt. will be considered.</p> <p>b) Single Project an order values not less than Rs.1.50 crore; or Two Projects order values not less than Rs.90 lakh for each projects; or Three or more Projects order values not less than Rs.70 lakh for each projects will be considered during the period from 1st April 2017 to previous day of floating of the tender.</p> <p>Any of the combination of above project categories will be treated as one project unit.</p>	<p>Work Order + Completion/ Phase Completion Certificates from the client;</p>	<p>1 project unit = 14 marks; 2 project units= 16 marks; 3 project units=18 marks; 4 or more project units=20 marks;</p>

Sl. No.	Criteria	Documents Required	Point System (Total 100 Marks)
4	Bidder should have minimum 2 technical manpower in their payroll for providing support for similar products/service	Certificate from HR/ Company Secretary	>=2 to <4 = 6 marks; >=4 to <6 = 8 marks; >=6 = 10 marks.
5	Quality Certificates: ISO 9001 and 20000 valid as on the last date of Bid Submission.	Copies of valid ISO Certificates.	For 2 nos. = 10 marks; For 1 no. 5 = 5 marks;
6	Proposed Solution for setting up of Video Conferencing Booths	Proposal indicating Make, Model and Specifications	20 marks;
7	Understanding of Scope of Work and Proposed Solution	Overall Bid Document	10 marks.

9.3 Format 3- Deviations from Tender Terms & Conditions

The given format should be followed while marking out the deviations from Tender terms and conditions:

Sl. No.	Section No.	Clause No.	Page No.	Statement of deviations and variations.	Remarks
1					
2					
3					
4					
5					
6					

9.4 Format 4- Project Experience Details

Sl. No.	Item	Details
General Information		
1	Customer Name/Government Department	
2	Name of the Contact Person and Contact details for the project	
Brief description of scope of project		
Size of the project		
3	Contract Value of the project (in crore)	
4	Capital Expenditure involved (by the govt./ client)	
5	Total cost of the services provided (by the Bidder)	
6	Please provide copies of Work Order or Certificate of Completion.	
Project Details		
8	Name of the project	
9	Start Date and End Date	
10	Current Status (work in progress, completed)	
11	Contract Tenure	
12	No. of locations	
13	Man-month effort involved	
14	Type of Project	
15	Solution architecture deployed & core Components	
16	Scope	
17	Any other necessary information	

10. Format for Response to Tender: Commercial Bid

Filled Bill of Quantity (BoQ) to be uploaded online as per attach Format.

11. Annexure

11.1 Annexure - I: Bidding Document Acknowledgement Form

Dated:

To
The Director
Information Technology,
Government of Tripura,
IT Bhavan, ITI Road, Indranagar,
Agartala, Tripura, PIN – 799006

Dear Sir,

We hereby acknowledge receipt of a complete set of Bidding Documents consisting of Annexure (along with their Appendices) enclosed to the "Invitation for Bid" pertaining to providing of _____ services against tender no. _____.

We have noted that the closing date for receipt of the tender by the DIT is _____ at <> hrs. (IST) and opening at <> hrs. (IST) on the same day.

We guarantee that the contents of the above said Bidding Documents will be kept confidential within our organization and text of the said documents shall remain the property of the DIT and that the said documents are to be used only for the purpose intended by the DIT.

Our address for further correspondence on this tender will be as under:

Tel. No:

Fax. no: Telephone no:

Personal attention of:

(if required)

Yours faithfully,

(Bidder)

Note: This form should be returned along with offer duly signed

11.2 Annexure – II: Proforma of Bank Guarantee towards Performance Security

PERFORMANCE GUARANTEE

Ref. No. _____ Bank Guarantee No _____

Dated _____

To

The Director
Information Technology,
Government of Tripura,
IT Bhavan, ITI Road, Indranagar,
Agartala, Tripura, PIN – 799006

Dear Sir,

In consideration of Directorate of Information Technology, Govt. of Tripura, having its office at IT Bhavan, ITI Road, Indranagar, Agartala 799006 (hereinafter referred to as 'DIT', which expression shall, unless repugnant to the context or meaning thereof, include all its successors, administrators, executors and assignees) after receipt of the work order dated _____ with M/s _____ having its registered/head office at _____ (hereinafter referred to as the 'CONTRACTOR') which expression shall, unless repugnant to the context or meaning thereof include all its successors, administrators, executors and assignees) and DIT having agreed that the CONTRACTOR shall furnish to DIT a performance guarantee for Indian Rupees for the faithful performance of the entire CONTRACT.

2. We (name of the bank) _____ registered under the laws of _____ having head/registered office at _____ (hereinafter referred to as "the Bank", which expression shall, unless repugnant to the context or meaning thereof, include all its successors, administrators, executors and permitted assignees) do hereby guarantee and undertake to pay immediately on first demand in writing any /all moneys to the extent of Indian Rupees. (in figures) _____ (Indian Rupees (in words) _____) without any demur, reservation, contest or protest and/or without any reference to the CONTRACTOR. Any such demand made by DIT on the Bank by serving a written notice shall be conclusive and binding, without any proof, on the bank as regards the amount due and payable, notwithstanding any dispute(s) pending before any Court, Tribunal, Arbitrator or any other authority and/or any other matter or thing whatsoever, as liability under these presents being absolute and unequivocal. We agree that the guarantee herein contained shall be irrevocable and shall continue to be enforceable until it is discharged by DIT in writing. This guarantee shall not be determined, discharged or affected by the liquidation, winding up, dissolution or insolvency of the CONTRACTOR and shall remain valid, binding and operative against the bank.

3. The Bank also agrees that DIT at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance, without proceeding against the CONTRACTOR and notwithstanding any security or other guarantee that DIT may have in relation to the CONTRACTOR's liabilities.

4. The Bank further agrees that DIT shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said CONTRACT or to extend time of performance by the said CONTRACTOR(s) from time to time or to postpone for any time or from time to time exercise of any of the powers vested in DIT 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 being granted to the said CONTRACTOR(s) or for any forbearance, act or omission on the part of DIT or any indulgence by DIT to the said CONTRACTOR(s) or any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

5. The Bank further agrees that the Guarantee herein contained shall remain in full force during the period that is taken for the performance of the CONTRACT and all dues of DIT under or by virtue of this CONTRACT have been fully paid and its claim satisfied or discharged or till DIT discharges this guarantee in writing, whichever is earlier.

6. This Guarantee shall not be discharged by any change in our constitution, in the constitution of DIT or that of the CONTRACTOR.

7. The Bank confirms that this guarantee has been issued with observance of appropriate laws of the country of issue.

8. The Bank also agrees that this guarantee shall be governed and construed in accordance with Indian Laws and subject to the exclusive jurisdiction of Indian Courts of the place from where the purchase CONTRACT has been placed.

9. Notwithstanding anything contained herein above, our liability under this Guarantee is limited to Indian Rupees (in figures) _____ (Indian Rupees (in words) _____) and our guarantee shall remain in force until _____. (Indicate the date of expiry of bank guarantee)

Any claim under this Guarantee must be received by us before the expiry of this Bank Guarantee. If no such claim has been received by us by the said date, the rights of DIT under this Guarantee will cease. However, if such a claim has been received by us within the said date, all the rights of DIT under this Guarantee shall be valid and shall not cease until we have satisfied that claim.

In witness whereof, the Bank through its authorized officer has set its hand and stamp on this..... day of20__ at.....

WITNESS NO. 1

(Signature)
Full name and official
Address (in legible letters)

(Signature)
Full name, designation and
address (in legible letters)
with Bank stamp

Attorney as per power of
Attorney No.....
Dated.....

WITNESS NO. 2

(Signature)
Full name and official
Address (in legible letters)

11.3 Annexure - III: Minimum Technical Specification of IT Component

A. Room Based - All-in-One VC Endpoint

Sl. No.	Description	Specifications	Compliance (Yes/No)
1	Package	It should be All-In-One Video Bar (with Integrated Microphones, Speakers, 4K Camera with Privacy Cover/Shutter) and Remote Control.	
2	Video Standards and Resolutions	It should support H.323 & SIP standards for communications.	
		It should support interoperability and bandwidth saving using video compression H.264 AVC, H.264 High Profile, H.265	
		It should support 4K 30 fps, 1080p 60 fps, 1080p 30 fps, 720p 60 fps, 720p 30 fps.	
3	Content Standards and Resolutions	It should support both wired and wireless content sharing using standard based H.239 and BFCP. It should also support audio from PC used for content sharing.	
		It should transmit content to the far end location at 4K15fps.	
		It should support inbuilt feature for wireless content sharing using Airplay for IOS based devices and Miracast for Windows and Android based devices without downloading any application on the user device.	
		It should support Content Annotation and White Boarding capability when connected to Touch Display.	
4	Audio Standards and Features	It should support G.711, G.722, G.722.1, or better	
		It should support 20 kHz or better bandwidth with crystal clear audio and stereo sound.	
		Keyboard Noise Reduction	
5	Video and Audio Inputs	1 x HDMI input to share 4K/Full HD content from PC/Laptop/Document camera/PTZ Camera.	
		1 x USB input to connect additional USB based PTZ camera from same OEM to capture whiteboard/presenter.	
6	Video and Audio Outputs	2 x HDMI output for connecting primary and secondary 4K (UHD)/Full HD displays.	
7	Other Interfaces	1 x 10/100/1000 Ethernet port	
		1 x USB to support system software upgrade	
8	Camera	Integrated UHD 2160p (4K) capture resolution	
		Minimum 5x digital automatic zoom and 120° FOV	
		The camera should support automatic speaker framing and group framing.	
		The Camera should have privacy cover/shutter.	
		Video Conference Camera and Codec should be controlled using same Remote Control.	
9	Microphone and Speaker	Inbuilt Microphones and Stereo Speakers	
		Should support external expansion microphone with mute/unmute button from same OEM	
10	USB Device Mode	The system should have inbuilt functionality to use the VC system as an external camera and microphones when connected to a Laptop/PC over a single USB cable without using any external hardware components to connect to any Cloud Based VC platform like Cisco Webex, Zoom, BlueJeans, Microsoft Teams, Google	

Sl. No.	Description	Specifications	Compliance (Yes/No)
		Meet, etc.	
11	Network Features	H.323 and SIP bandwidth supporting up to 6 Mbps or more.	
		Must support IPv4 and IPv6 from day one on both H.323 and SIP.	
		Auto Gatekeeper Discovery, Lost Packet Recovery (LPR) technology, IP Precedence	
12	Security	Media Encryption (H.323, SIP): AES-128, AES-256	
		Authenticated access to admin menus and web interface access	
		Local account password policy configuration	
		Global Directory/Centralized Directory/LDAP support	

Note: The proposed system must be an all-in-one video bar consisting of Integrated - Camera, Codec, Speakers, Microphones and Remote Control. The system must be based on ITU standards & hardware based. No software based solution will be accepted.

B. Display Unit 32"

Sl. No.	Section	Item Description	Detailed Specification	Compliance (Yes/No)
1	Panel	Screen Size	32" or Higher	
2		Panel Technology	IPS or equivalent	
3		Backlight Type	LED (Direct)	
4		Aspect Ratio	16:09	
5		Native Resolution	1366 x 768 or higher	
6		Dynamic Contrast Ratio	1,000,000:1 or higher	
7		Viewing Angle (H x V)	178 x 178 degree	
8	Video	XD Engine	Yes	
9		Picture Mode	8 Modes (Vivid, Standard, APS, Cinema, Cricket, Expert1 (Bright Room), Expert2 (Dark Room))	
10		Aspect Ratio Mode	6 Modes (16:9, Original, Full wide, 4:3, Vertical Zoom, All-Direction Zoom)	
11		RF (1/2 Tuner)	Yes (2 Tuner)	
12	Audio	Audio Output	35W	
13		Speaker System	2.1ch	
14		Sound mode	6 Modes (Standard, Cinema, Clear Voicelll, Cricket, Bollywood, Game)	
15		Clear Voice	Yes (Clear Voice III)	
16		Audio Codec	AC3 (Dolby Digital), EAC3 (DDP), AAC, AAC HE, MPEG, MP3, PCM	
17	Smart Features	Web Browser	Yes	
18		WiFi (bandwidth)	Yes	
19		Screen Share (Miracast)	Yes	
20		Smart Share (DLNA)	Yes	

Sl. No.	Section	Item Description	Detailed Specification	Compliance (Yes/No)
21		Sound Sync/bluetooth	Yes	
22		Auto Off/Sleep Timer	Yes	
23		Motion Eye Care	Yes	
24		USB Cloning	Yes	
25	Connectivity	HDMI Input	3	
26		USB 2.0 Input	1	
27		CI Slot	1	
28		RF In	2	
29		AV In	1	
30		Component Nn (Y, Pb, Pr-Video)	1	
31		Digital Audio Out	1 (Optical)	
32		Headphone Out	1	
33		RJ45	1	
34	Power	Power Supply	100-240V~, 50/60Hz	
35		Energy saving (Max)	13W or less	
36		Smart Energy Saving	Yes	
37	Warranty	5 years		

C. Network Rack 6U

Sl. No.	Detailed Specification	Compliance (Yes/No)
1	6U, 19" 550mm Width, 600mm Depth, Wall Mount Indoor Networking Rack	
2	It should confirm to DIN 41494 or equivalent standard	
3	It should be welded construction with steel frame	
4	Lockable tough ended glass front door	
5	19" mounting angle made of formed steel	
6	Powdered coated standard finish	
7	Top & Bottom welded cover with vented & cable entry exit cut outs	
8	2 pair of 19" mounting rails	
9	1U Cable Manager	
10	Roof Mounted Fan Unit	
11	230V AC, 6 way, 5 Amp Power Distribution Unit	
12	Mounting Hardware	
13	OEM SHOULD COMPLY FOLLOWING CRITERIA FROM DAY ONE:	
14	OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
15	OEM Brand and company together presence in india.	
16	OEM should have a registered office in India	
17	OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other GOVT. organization in INDIA and Globally.	

D. Network Switch (16 Port)

Sl. No.	Detailed Specification	Compliance (Yes/No)
1	Layer-2 Switch having minimum 16x10/100/1000 BaseT PoE ports & 4x 10/100/1000 BaseT ports/1G SFP slots.	
2	2 or 4 fixed 1 Gigabit Ethernet Small Form-Factor Pluggable (SFP) uplinks or 4 fixed 10 Gigabit Ethernet SFP+ uplinks	
3	Packet Forwarding Rate (64-byte packet size): Minimum 41Mpps	
4	The switch should have non-blocking architecture & wire-speed performance under fully loaded condition from day-1	
	The Switch should have following L2 features from DAY-1	
5	MAC Address Table size: Atleast 8000, support atleast 256 static MAC	
6	Jumbo Frame Support (Atleast 10,000 bytes)	
7	IGMP v1 v2 with atleast 256 IGMP snooping groups, Per VLAN IGMP Snooping, port based IGMP snooping fast leave.	
8	LLDP, LLDP-MED, IPv6 Neighbour Discovery.	
9	IEEE802.1D STP, 802.1w RSTP, 802.1s MSTP with atleast 32 MSTP instances support, Root guard or equivalent feature.	
10	The switch should be able to avoid the loop occurring in a single port connected to an unmanaged switch/hub by shutting down the corresponding port or corresponding VLAN	
11	IEEE 802.3ad Link Aggregation with atleast 8 ports per groups & 8 groups per switch	
12	Port mirroring for Tx/Rx/Both. One-to-One mode, Many-to-one mode	
13	IEEE 802.1Q VLAN, atleast 256 Static VLANs	
14	MLD snooping v1 & v2 with atleast 256 snooping groups	
15	Atleast 4 IP interfaces (IPv4 & IPv6)	
16	Atleast 120 IPv4 static route entries & atleast 50 IPv6 static route entries	
17	The switch should have 802.1p support with 8 queues per port. Support strict & WRR queue handling technique.	
18	The switch should have QoS based on MAC address, IP address, TCP/UDP port, DSCP, ToS, IP preference, EtherType, Protocol type, IPv6 Traffic Class	
19	The switch should have ingress & egress bandwidth control (port based) with minimum multiple of 16Kbps	
20	The switch should have standard & extended Access control list. Atleast 750 access rules support.	
21	The switch should have the following security features from Day-1: Broadcast, Multicast & Unicast storm control, port security feature with atleast 64 MAC per port, ARP spoofing prevention, IEEE 802.1x, MD5 Authentication, Dynamic VLAN assignment, RADIUS server, Binding of IP address with MAC address & interface.	
22	The switch should have feature to protect the CPU/Processor from protocol control packet attack.	
23	The switch should have cable diagnostic feature to check the status of connected RJ45 cables.	

Sl. No.	Detailed Specification	Compliance (Yes/No)
24	The Switch should have following Management features from day-1: Web-based GUI (IPv4 & IPv6), Telnet Server (IPv4 & IPv6), TFTP Client (IPv4 & IPv6), SNMPv1v2cv3, SNMP (IPv4 & IPv6), SNMP trap, BootP/DHCP Client, DHCP Relay, DHCP Relay Option 82, SNTP, RMONv1, Syslog (IPv4 & IPv6 Server), local syslog, ping, dual configuration files support, dual image files support.	
25	The switch should have Energy saving green technology based on cable length & link status. IEEE 802.3az. Time based PoE scheduling	
26	The switch should be 1U height	
27	Operating Temperature: 0°C - 50°C, Operating Humidity: 0% - 95%	
28	All Switches should be from same make	
	OEM should Comply Following Criteria from DAY-1:	
29	OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
30	OEM Brand and company together should have presence in India.	
31	OEM should have a registered office in India.	
32	OEM must not be blacklisted or banned by any State/Central Government, Semi-Government or PSU and any other Govt. organization in India and Globally.	

E. Network Router with Firewall

Sl. No.	Technical Specification	Compliance (Yes/No)
1	Hardware Specification	
1.1	Device Should be Desktop (1U Rack Mountable)	
1.2	The appliance should have multicore processor based architecture.	
1.3	The appliance should have minimum 4 x 10/100/1000 Base-T Multipurpose Ethernet Port	
1.4	The appliance should have minimum 500GB HDD/SSD Storage	
1.5	The appliance should have minimum 1 x Management port	
1.6	Proposed solution should have bandwidth quota and time quota for manageability of users	
1.7	The Firewall should be Network DLP compliant	
2	License Deliverable /Description	
2.1	User Identity, Next Generation Intrusion Prevention System (IPS),Zero Day Protection / Advance Malware protection, Web Security Essentials / URL Filtering ; Antivirus, URL Filter, Application Filtering, Anti-Spam, Basic 24x7 Support	
2.2	Need 5 Years / 60 Month License with H/W Warranty	
3	Performance Capacity –Minimum	
3.1	The appliance should have minimum throughput of 300 Mbps or higher with all features enabled (Under Test Condition)	
3.2	The appliance should have minimum throughput of 2200 Mbps or higher Real World Performance (Under Test Condition)	

3.3	The appliance should have minimum Firewall Throughput of 3.2 Gbps or better	
3.4	The appliance should able to handle minimum 30K new session per second or better	
3.5	The appliance should able to handle minimum 300 Mbps NGFW Throughput or better	
3.6	The appliance should have minimum Antivirus Throughput of 530 Mbps or better	
3.7	The appliance should have minimum IPS Throughput of 900 Mbps or better	
3.8	The appliance should have minimum Firewall IMIX Throughput of 2 Gbps or better	
3.9	The appliance should have minimum VPN Throughput of 330 Mbps or better	
3.10	The appliance should have minimum 550 Number of Ipsec VPN Peers supported (Site to Site)	
3.11	The appliance should have minimum 550 Number of Ipsec VPN Peers supported (Client to Site)	
3.12	The appliance should have minimum 550 Number of SSL VPN Peers supported (Client to Site)	
3.13	The appliance should have minimum 6M Concurrent Session/Concurrent Connection	
3.14	The appliance Should support 85+ Web categories	
3.15	The appliance Should support 5000+ application Signature	
3.16	The appliance Should support 25000+ IPS Signature	
3.17	The proposed system should have the flexibility to access from cloud-based management system to manage Firewall.	
3.18	The proposed system should be SD WAN Enable from Day1	
3.19	The Proposed solution should have an option to provide complete policy enforcement and visibility of roaming users and should restrict the remote user from disabling it.	
3.20	The organization policy framework must be extended to the remote users and ideally it should control the Web and Application filter of remote user	
4	Other Terms & Conditions	
4.1	Supply, Installation, Integration, testing commissioning and training as per site requirements shall be done by the bidder.	
4.2	The proposed appliance should come from firewall appliance family which has more than 10 years of ICASA labs certification.	
4.3	The OEM have their registered office in India	
4.4	OEM should be ISO 9001-2015 & ISO 27001:2013 Certified.	
4.5	The product shall have Indian Standard, IC3S/Common Criteria (provided by STQC in India common-criteria- certification-0) or Alternatively from International equivalents, NDPP or NSS or ICASA Labs, at least one of them should be provided while bidding.	
4.6	Certificate of authorization (MAF) for this bid must be submit with bid.	
4.7	Bidders need to submit MAF from respective OEM is mandatory, otherwise authority should have right to cancel the Bidder.	
4.8	The bidder should be ISO certified organization.	

F. 2 KVA UPS (2 hrs backup) with batteries

Sl. No.	Descriptions	Specifications	Compliance (Yes/No)
1	Make	Eaton/Schneider/Vertiv	

2	Rated Voltage	2KVA	
3	Technology	True Online Double Conversion Microprocessor based 2 KVA/ 1.6KW UPS as per Bureau of Indian Standards	
4		UPS should have IGBT based rectifier and inverter.	
5		Advance battery management feature should be built in for prolonged battery life.	
6		Adjustable Charging current 2A-10 AMPS	
7		The UPS should be compatible for single phase input and single phase output supply.	
8	Input	i)Voltage range 110 -300 V, Load dependent	
9		ii) UPS Input Frequency should be 50Hz with frequency window 40 Hz to 70 Hz.	
10		iii)Power Factor 0.99 (With P.F correction)	
11		iv) Capacity 2KVA	
12	Output	i)Voltage range 220 /230/240 VAC +/- 2%	
13		ii)Harmonic distortion <3% (Linear Load), <5% (Nonlinear load)	
14		iii) UPS output frequency should be 50 Hz +/-1%	
15		iv) Power Factor 0.8	
16		v) CREST factor 3:1	
17	Efficiency	UPS should provide online double conversion efficiency >90% , provide Economy mode efficiency >97.5% and provide Battery mode efficiency >86% and should be certified from certified from Bureau of Indian standard lab	
18	Battery	i) Type - Sealed lead acid maintenance free (SMF)	
19		ii) Backup Time- 2Hours in standalone mode @ 50% load (≥ 1872VAH)	
20		iii) Transfer Time – Zero	
21		iv)Audible Noise - <51 db	
22		v) DC Voltage :- 72 VDC (Minimum 6 batteries system)	
23	Display	UPS LCD display should provide Input/output/Battery/Load details on single screen.	
24	Interface slot	RS232 & Intelligent Slot (SNMP), The SNMP card provided should have a Cybersecurity certification in lined with UL-2900-1 . Vulnerability test reports to be provided with the bid for verification	
25	Output socket	UPS should have 3* IEC C13 Output Socket + 1 terminal block	
26	Protection Grade	IP 20	
27	Software	Shall provide a monitoring software which should be able to command certain protective actions such a migration of virtual machines, controlled shutdown, or disaster recovery relation actions. The software shall be compatible with third party information technologies solutions connector of VMWARE & CITRIX., Microsoft, Cisco, Nutanix, Open stack etc	
28	PCB Coating	UPS should come with conformal coated boards for harsh environment	
30	Surge Regulations	UPS should have inbuilt surge protection as per Criteria B, DM Level 3: 2KV, CM Level 4: 4KV Ref Std : IEC 61000-4-5:2014	
31	Credentials	1. Manufacturer should be ISO 9001: 2000, ISO 14001 and ISO 45001 certified	

		2. OEM should have own call centre for Service support, no third party / outsourced arrangement	
		3. OEM should be listed in top 5 OEMs in Frost & Sullivan report	
		4. Offered product should be OEM own designed, developed & manufactured (outsourced manufactured products not allowed)	
		5. OEM should have certificate of incorporation in India under same entity name	
		6. OEM should have manufacturing & product capability to produce >1MW of standalone capacity UPS system and have been supplying to customer in India under Make in India initiative	
32	Warranty	UPS Should have 05 years Onsite warranty and Batteries should have at least 03 years Onsite warranty	
35	Material	DOUBLE LAYER FR4 material for higher reliability in operations and transportation.	

G. 5 KVA UPS (2 hrs backup) with batteries

Sl. No.	Descriptions	Specifications	Compliance (Yes/No)
1	Make	Eaton/APC/Vertiv	
2	Rated Power	5kVA/5kW	
3	Technology	i) True Tower IGBT based UPS with double conversion technology.	
4		ii) UPS should be capable of paralleling up to 2 units or better.	
5		iii) UPS should have IGBT based rectifier and inverter.	
6		iv) Advance battery management feature should be built in for prolonged battery life	
7		v) The UPS should be compatible for single phase input and single-phase output supply.	
		vi) Charging Current default 4A (0~12A adjustable)	
8	Input	i) Voltage range 110 -275 VAC @ 50% load & 160-275 VAC @ 100% load	
9		ii) 45-55Hz / 54-66Hz (extendable to 40~70HZ when load < 60%	
10		iii) Power Factor 0.99 (With PF correction)	
11		iv) Capacity 6 KVA /6KW	
12	Output	i) Voltage range 208V/220V/230V/240V +/- 1%	
13		ii) Harmonic distortion <3% (Linear Load); <5%(Nonlinear load)	
14		iii) 45-55Hz / 54-66Hz (extendable to 40~70HZ when load < 60%)	
15		iv) Power Factor Unity	
16		v) CREST factor 3:1	
17	Efficiency	95% @ 230V output with typical load and >= 98% in ECO MODE (UPS must be having ECO MODE option available)	
18	Battery & Environment	i) Type - Sealed lead, acid maintenance free (SMF)	
19		ii) Backup Time- 2Hours in stand alonemode @ 50% of 5KVA load (≥ 6240 VAH)	
20		iii) Transfer Time - Zero	

Sl. No.	Descriptions	Specifications	Compliance (Yes/No)
21		iv) Audible Noise (>75% load, charger current >2A) - ≤60dB	
22		v) Operating Temperature - 0°C ~ 40 °C (40~50°C 50% load)	
23		vi) DC VOLTAGE: - 192VDC (192V~240V adjustable)	
24	Display	Multi-language LCD + status LED	
25	Interface slot	USB & Intelligent Slot (SNMP), The SNMP card provided should have a Cybersecurity certification in lined with UL-2900-1 . Vulnerability test reports to be provided with the bid for verification.	
26	Protection Grade	IP 20	
27	Software	Shall provide monitoring software which should be able to command certain protective actions such a migration of virtual machines, controlled shutdown, or disaster recovery relation actions. The software shall be compatible with third party information technologies solutions connector of VMWARE & CITRIX., Microsoft, Cisco, Nutanix, Open stack etc	
28	Maintenance Bypass Switch	It should be inbuilt feature of the UPS	
29	PCB Coating	UPS should come with conformal coated boards for harsh environment	
30	Event Logging	Up to 100 event log can be read through LCD with password protection	
31	Credentials	1. UPS should meet ROHS standards	
		2. Manufacturer should be ISO 9001: 2000, ISO 14001 and ISO 45001 certified	
		3. OEM should have own call centre for Service support, no third party / outsourced arrangement	
		4. OEM should be listed in top 5 OEMs in Frost & Sullivan report	
		5. Offered product should be OEM own designed, developed & manufactured (outsourced manufactured products not allowed)	
		6. OEM should have certificate of incorporation in India under same entity name	
		7. OEM should have manufacturing & product capability to produce >1MW of standalone capacity UPS system and have been supplying to customer in India under Make in India initiative	
32	Warranty	UPS Should have 05 years Onsite warranty and Batteries should have at least 03 years Onsite warranty	
33	Surge /Conduction/Radiation Regulations	IEC 61000-4-5 Level 4/ IEC 62040-2 Category C3/ YEC 62040-2 Category C3	
34	Material	DOUBLE LAYER FR4 material for higher reliability in operations and transportation	

H. Integrated USB all-in-one desktop conferencing device with battery backup

Sl. No.	Specifications		Compliance (Yes/No)
1	General Requirement	Complete camera, speakerphone, remote control, microphone and battery should be an integrated single OEM solution for ease of use and seamless experience.	
2		System should support Bluetooth and NFC (Near Field Communication) for audio call integration with mobile phone in the conference room.	
3		System must have all required certification FCC, CE, RoHS and comply to India E-waste management rules	
4		OEM for the system should be ISO 9001:2008 certified.	
5		All required components of the system should have Government of India - Ministry of Communication & IT approval (WPC - Wireless and planning coordination certified)	
6		OEM for the system should be listed in as on bid calling date.	
7		To support bidder and for better service to end customer, OEM should have minimum 40 or more authorized service centres across India with atleast one service centre in each of the metro cities : Delhi, Mumbai , Bangalore, Chennai from the last 3 years as on bid calling date.	
8		OEM for the system should be innovative and must have international recognition from Wainhouse, Frost & Sullivan, let's do video, redden etc.	
9		OEM should be profitable organization with overall turnover for the last 2 years.	
10		OEM for integrated system should be innovative and must have atleast 100 patents awarded to it's name from day one.	
11		OEM for the system should have option to provide SDK free of cost for the integration of the system in any workflow / Application.	
12	Camera	System should support onboard H.264 with Scalable Video Coding (SVC), UVC 1.5 for processing of video within the camera and usb Audio class (UAC) to save computing resources on end device/ laptop/PC or codec.	
13		Output: H.264 , YUY2, MJPEG.	
14		Optical Resolution: 2 MP (1080p30fps or above).	
15		Sensor size : 1/3" CMOS	
16		Port: USB 2.0 micro or equivalent or higher for end device connectivity.	
17		SNR >= 35dB	
18		Should support FECC : Far End camera control.	
19		FOV: Diagonal 90°, Horizontal 81.9°and vertical 59°or above.	
20		Aperature: #2.0	
21		Should support autofocus.	
22		Smooth motorized pan, tilt and zoom from remote control and optional downloadable app.	

Sl. No.	Specifications	Compliance (Yes/No)
23	It should also be possible for user to control camera via simple software application in PC & Mac.	
24	Zoom: 4x or better	
25	Minimum illumination : 20 lux	
26	Should have Kensington Security Slot to ensure physical security of camera in conference room.	
27	To be supplied with required power adaptor, regional plugs, cables minimum 5mts and mounting bracket.	
28	Integrated Speakerphone LED for speakerphone streaming, mute and bluetooth pairing so that user is aware about the status of the device.	
29	Should have Kensington Security Slot to ensure physical security of device in conference room.	
30	Audio Technology: Must support Echo and Noise cancellation with 360 degree wideband audio.	
31	Must have full duplex performance for real time communication.	
32	Frequency response: 140Hz – 16KHz	
33	Sensitivity: 89dBSPL +/-3dB at 1W/0.5M	
34	Max output: 91.5 dBSPL at 0.5m	
35	Distortion: <5 % from 200Hz	
36	Integrated Microphones Two inbuilt omni-directional microphones- supporting 12-foot or more	
37	Frequency response: 100Hz – 16KHz	
38	Sensitivity: -34dB +/-3dB	
39	Integrated microphone should have mute/unmute button on the unit as well on remote control so that user sitting at any corner of conference room has provision to mute/ unmute the complete system with LED indication on the system.	
40	Distortion: <1 % @ 1KHz at 65dB	
41	Cable Management and other System should be designed such a way that single USB cable (for camera , speakerphone and microphone) with 6ft of minimum length is connected to end device (laptop, Mac, Codec ,desktop and thin client)	
42	System should come with rechargeable battery support up to 3 hrs VC call or screen mirroring time. 15 hrs for Bluetooth audio	
43	All necessary cables for all the components, power adaptors, regional plugs, quick start guide should be supplied by the OEM.	
44	Remote Control Type: Infrared with removable / replaceable batteries.	
45	System should be supplied with all-in-one remote control to manage Camera (Pan, Tilt, Zoom, Preset) , Speakerphone (volume +/-) and Microphone (mute /unmute)	
46	System should have the stand / dockable space for the remote control.	
47	Range 10ft or more	

I. Desktop Computer:

Sl. No.	Specifications	Compliance (Yes/No)
1	Screen Size: 24' FHD	
2	Processor: Intel® Core™ i7-7700 (QC/8MB/8T/3.6GHz/65W); supports Windows 10/Linux	
3	Hard Drive: 1 TB 2.5inch Serial ATA (7,200 Rpm) Hard Drive	
4	Windows 10 or above OS	
5	5 Years Onsite Warranty	
6	Graphics Card: 2 GB	
7	RAM: 8GB DDR4 at 2400MHz(1x8GB)	
8	Wi Fi	
9	Wireless Keyboard with mouse	
10	Ports 8 External USB ports: 6 USB 3.1 Gen 1, 1 HDMI 1.4 Out 1 HDMI 1.4 In (Full HD Only) 1 RJ-45 1 Display Port 1.2 1 Universal Audio Jack 1 Audio Line-Out Slots Optional optical disc drive Standard media card reader 2 M.2 connectors (Wi-Fi Card, Storage)	

J. Laptop Computer:

Sl. No.	Specifications	Compliance (Yes/No)
1	15.6 inches, 1366 x 768 pixels	
2	Intel Core i5 11th Gen Quad Core supports Windows 10/Linux	
3	512 GB SSD	
4	Windows 10 or above OS	
5	5 Years Onsite Warranty	
6	Graphics Card: 2 GB	
7	RAM: 8GB DDR4 at 2400MHz(1x8GB)	
8	Wi Fi	
9	Ports 4 External USB ports 1 HDMI 1 RJ-45 1 Display Port 1.2 1 Universal Audio Jack 1 Audio Line-Out Slots Optional optical disc drive Standard media card reader 2 M.2 connectors (Wi-Fi Card, Storage), Thunderbolt port	

11.4 Annexure – IV: Location-wise Matrix for deployment of Studio VC/ Desktop VC systems

Location-wise Matrix for deployment of Studio VC/ Desktop VC systems

Sl. No.	Name of Jails	Room Based - All-in-One VC Endpoint	Display Unit 32"	Network Rack 6U	Network Switch 16 Port	Router with Firewall	2 KVA UPS (2 hrs backup) with batteries	5 KVA UPS (2 hrs backup) with batteries	Integrated USB all-in-one desktop conferencing device	Desktop PC	Laptop Computer	Table for Display Unit / VC System	Table for Desktop Computer	Chair	Small Table for Microphone one Unit	Furniture (VC Table, Computer Table, Chair, Small Table)	LAN Cabling	Installation, fitting, fixing etc.
1	Kendriya Sangsohdhanagar, Bishalgarth	4	4	1	1	1	0	1	2	2	2	4	2	1	6	1	1	1
2	Udaipur District Jail	2	2	1	1	1	0	1	1	1	1	2	1	1	3	1	1	1
3	Kailasahar District Jail	2	2	1	1	1	0	1	1	1	1	2	1	1	3	1	1	1
4	Kanchampur Sub-Jail	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1
5	Longtarai Vally Sub-Jail	1	1	1	1	1	1	0	1	1	1	1	1	1	2	1	1	1
6	Khowai Sub-Jail	2	2	1	1	1	0	1	1	1	1	2	1	1	3	1	1	1
7	Amarpur Sub-Jail	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1
8	Kamalpur Sub-Jail	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1
9	Sonamura Sub-Jail	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1
10	Gandacherra Sub-Jail	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1
11	Belonia Sub-Jail	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1
12	Dharmanagar Sub-Jail	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1
13	Sabroom Sub-Jail	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	1	1
	Total	19	19	13	13	13	9	4	6	6	14	19	6	13	25	13	13	