

	<p>Electronics Corporation of Tamil Nadu Limited</p>
	<p>Supply and Commissioning of Public Address System and Software based VC on Rate Contract Basis</p>
	<p style="text-align: center;"><u>Tender Reference</u> ELCOT/Networks/OT/33458/PA System and Software based VC /2021-22</p> <p style="text-align: center;"><u>Version 2.0</u></p>
	<p style="text-align: center;">Electronics Corporation of Tamil Nadu Limited MHU Complex II Floor, 692 Anna Salai, Nandanam Chennai-600035 Phone: +91-44-66401400 Fax: +91-44-2433 0612 ELCOT CIN No.U27209TN1977SGC007291 ELCOT GST No. 33AAACE1670KIZU Email: md@elcot.in Website: www.elcot.in</p>

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Acronyms used in the Document

AMC	Annual Maintenance Contract
BG	Bank Guarantee
BIS	Bureau of Indian standards
DD	Demand Draft
DVD	Digital Versatile Disk
ELCOT	Electronics Corporation of Tamil Nadu Ltd
EMD	Earnest Money Deposit
GST	Goods and Services Tax
HD	High Definition
HDCP	High Definition Continuous Presence
HDMI	High Definition Multimedia Interface
HSN	Harmonized System Nomenclature
INR	Indian Rupees
IS	Indian Standard
IT	Information Technology
LCD	Liquid Crystal Display
LED	Light Emitting Diode
LD	Liquidated Damage
LOA	Letter of Acceptance
LOI	Letter of Indent
MAF	Manufacturing Authorization Form
MIC	Microphone
OEM	Original Equipment Manufacturer
PAS	Public Address System
RF	Radio Frequency
SD	Security Deposit
SPOC	Single Point of Contact
THD	Total Harmonic Distortion
UPS	Uninterruptible Power Supply
VGA	Video Graphics Adapter

Applicability of Tamil Nadu Transparency in Tenders Act 1998

This Tender process will be governed by the Tamil Nadu Transparency in Tenders Act 1998 and The Tamil Nadu Transparency in Tenders Rules, 2000 amended from time to time.

Know Your Rights

The bids submitted online within the due date and time will be opened on the scheduled date and time in the presence of the bidders who are present.

Price bids of the technically qualified bidders will be opened in the presence of the technically qualified bidders who are present.

Vendors / bidders are eligible for a vendor signed copy of the price bid comparison statement on the spot.

Please insist on your rights and avail the same.

MANAGING DIRECTOR
ELCOT

Letter of Undertaking

To

The Managing Director
Electronics Corporation of Tamil Nadu Limited
692 Anna Salai,
Nandanam, Chennai-600 035
Sir,

Sub: Undertaking for participation in ELCOT's Network Tender – Reg,

Ref: Tender No. ELCOT/Networks/OT/33458/PA System and software based
VC/2021-22

I/We ----- have gone through the Terms and Conditions, Scope of Work and Specification and will abide by them as laid down in the Tender Documents (Technical bid and Price Bid), fully in all aspects failing which, suitable actions can be taken against us as applicable in the tender.

I/We ----- hereby confirm that our Company has not been blacklisted by any State Government/ Central Government / Public Sector Undertakings during the last three years. I/We also hereby confirm that our EMD/SD has not been forfeited by any State Government / Central Government / Public Sector Undertakings during the last three years due to our non-performance, non-compliance with the tender conditions etc.

I/We ----- hereby declare that all the particulars furnished by us in this Tender are true to the best of my/our knowledge and I/We understand and accept that if at any stage, the information furnished is found to be incorrect or false, I/We am/ are liable for disqualification from this tender and also are liable for any penal action that may arise due to the above.

I/We ----- certify that no refurbished components are used in the manufacturing and supply of Quoted Items and its related accessories / tendered items. The OEM Specific licences / supported versions for the operating systems and other software to be installed / to be delivered under this contract are certified as genuine and valid.

I/We _____ certify that I/We am/are liable and responsible for any disputes arising out of Intellectual Property Rights.

In case of violation of any of the conditions above, I/We..... understand that I am/ We are liable to be blacklisted by ELCOT for a period of three years.

Yours faithfully
for _____
Name, Signature
Designation
Seal

Note:

- 1) Declaration in the company's letter head shall be submitted as per format given above
- 2) If the bidding firm has been blacklisted by any State Government / Central Government / Public Sector Undertakings earlier, then the details shall be provided.

1. Preamble

Electronics Corporation of Tamil Nadu Limited (ELCOT), a wholly owned Government of Tamil Nadu Undertaking is the Optional Procurement Agency of the Government of Tamil Nadu for procurement of IT related Hardware and Software products as per G.O. Ms. No.58 of Finance (BPE) Department dated 16.2.1999 with latest amendments. ELCOT is procuring various IT related Hardware and Software products for all the State Government Departments / Boards / Autonomous Bodies, etc. As part of the procurement activities, ELCOT invites Offers for the procurement, Supply and Commissioning of Public Address System along with related accessories and software based VC on behalf of various Government Departments in Tamil Nadu **on Rate Contract basis**

Short Titles used in the Tender Document:

- 1) **Bidder:** Bidder means the party who makes a formal offer in pursuance of the tender floated.
- 2) **Successful Bidder:** Successful Bidder means the Bidder who becomes successful through the tender process.
- 3) **Day:** A day means a calendar day.
- 4) **Service Centre:** Service Centre means the centre or place, wherein the Bidder, interalia undertakes and performs the service activities relating to the **Public Address System** & related items and software based VC across Tamil Nadu as indicated in the tender and shall include a direct service centre or Authorised dealer or Franchisee service centre of the bidder:
- 5) **Life Cycle Cost:** Life Cycle Cost means value of Price bid for 1 year or standard product warranty Period whichever is later for Public Address System and 1 year support period for software based VC
- 6) **Purchaser:** Purchaser means the end-user for whom the procurement is indented through the tender.

2. Tender Schedule

ELECTRONICS CORPORATION OF TAMIL NADU LIMITED (ELCOT)

1	Tender inviting Authority, a) Designation and Address	The Managing Director ELCOT, II Floor MHU Complex 692 Anna Salai, Nandanam, Chennai-600035. e-mail: md@elcot.in and URL: www.elcot.in
	b) Tender Accepting Authority	The Board of Directors
2	A) Name of the Work	Supply and Commissioning of Public Address System and software based VC on behalf of various Government departments across Tamil Nadu on Rate Contract Basis
	B) Tender reference	ELCOT/Networks/OT/33458/PA System and software based VC/2021-22
	C) Installation	Throughout the State of Tamil Nadu
3	Tender documents available place	Tender documents can be freely downloaded from https://tntenders.gov.in , www.elcot.in and www.tenders.tn.gov.in till the closing date and time of tender. The tender document fee is waived for the downloaded Tender documents from these sites.
4	Tender Fee Charges	For every Tender submitted through e-Tender, a portal charge of Rs.10,000/- plus GST @ 18% should be paid electronically through their respective internet banking enabled account or NEFT/RTGS to the account of ELCOT Account Number:6681528770 Indian Bank, Nandanam branch, Chennai-35. IFSC Code:IDIB000N078.
5	Earnest Money Deposit (EMD)	Rs.2,00,000/- (Rupees Two Lakhs Only) should be paid electronically through their respective internet banking enabled account or NEFT/RTGS to the account of ELCOT Account Number:6681528770 Indian Bank, Nandanam branch, Chennai-35. IFSC Code:IDIB000N078. Bidders with valid MSME certification are exempted from EMD charges on submission of necessary proof of documents
6	Tender submission	Two Parts Tender comprising of Technical Bid and Price Bid should be submitted electronically online through the tender Portal https://tntenders.gov.in
7	Bid Signing	Bidders should possess valid Class 3 - Digital Signature Certificates having signing and encryption keys to submit the Bids online
8	Help manuals for e-Tender	Bidders may download the help documents and user manuals from https://tntenders.gov.in
9	Prebid meeting	On 16.09.2021 @ 01.00 P.M at the address mentioned in Row(1) above

10	Due Date, Time and Place for the submission of the Tender online	On 09.11.2021 @ 03.00 P.M through the site https://tntenders.gov.in
11	Date, Time and Place of opening of the Technical Bids online	On 09.11.2021 @ 04.00 P.M at the address mentioned in Row(1) above
12	Date, Time and Place of opening of Price Bids	Will be intimated only to the Technically Qualified Bidders

3. General Instructions

3.1 General

- a) The Bidders are requested to examine the instructions, terms and conditions and specifications given in the Tender. Failure to furnish all required information in every respect will be at the Bidder's risk and may result in the rejection of bid.
- b) It will be imperative for each Bidder(s) to familiarise himself / themselves with the prevailing legal situations for the execution of contract. ELCOT shall not entertain any request for clarification from the Bidder regarding such legal aspects of submission of the Bids.
- c) It will be the responsibility of the Bidder that all factors have been investigated and considered while submitting the Bids and no claim whatsoever including those of financial adjustments to the contract awarded under this tender will be entertained by ELCOT. Neither any time schedule nor financial adjustments arising thereof, shall be permitted on account of failure by the Bidders to appraise themselves.
- d) The Bidders shall be deemed to have satisfied themselves fully before Bidding as to the correctness and sufficiency of their Bids for the contract and price quoted in the Bid to cover all obligations under this Tender.
- e) It must be clearly understood that the Terms and Conditions and Specifications are intended to be strictly enforced. No escalation of cost in the Tender by the Bidder will be permitted throughout the period of Agreement or throughout the period of completion of contract whichever is later on account of any reasons whatsoever.
- f) The Bidder shall make all arrangements as part of the contract to supply commission and train the beneficiaries at various locations at their own cost and transport.
- g) The Bidder should be fully and completely responsible to ELCOT and for the concerned State Government Departments for all the deliveries and deliverables.

- h) Any vendor who is blacklisted in ELCOT will not be eligible to bid for Tenders in ELCOT, as per the conditions of blacklisting.

3.2 Clarifications in the Tender

- a) A prospective Bidder requiring any clarification in the Tender may notify ELCOT by letter or by Fax or by e-mail as per the Format prescribed in Annexure-5 to md@elcot.in, procurement@elcot.in and networksvcs@elcot.in. We encourage paper free e-mail communication.
- b) The responses to the clarifications will be notified in the websites by means of Corrigendum to the Tender Document. It would be advantageous to commence e-mail contact procurement@elcot.in and networksvcs@elcot.in to register your e-mail id.

3.3 Amendments to the Tender

- a) Before closing the Tender, clarifications and amendments if any will be notified in the websites mentioned in the Tender Schedule. The Bidders should check periodically for the amendments or corrigendum or information in the websites till the closing date of this Tender. ELCOT will not make any individual communication and will in no way be responsible for any ignorance pleaded by the Bidders.
- b) No clarifications would be offered by ELCOT within 48 hours prior to the due date and time for opening of the Tender.
- c) Before closing the Tender, ELCOT may amend the Tender document as per requirements or wherever ELCOT feels that such amendments are absolutely necessary.
- d) Amendments also may be given in response to the queries by the prospective Bidders.
- e) Such amendments will be notified in the websites mentioned in the Tender schedule.
- f) ELCOT at its discretion may or may not extend the due date and time for the submission of bids on account of amendments.
- g) ELCOT is not responsible for any misinterpretation of the provisions of this tender document on account of the Bidders failure to update the Bid documents on changes announced through the website.

3.4 Language of the Bid

The bid prepared by the Bidder as well as all correspondence and documents relating to the bid shall be in English only. The supporting documents and printed literature furnished by the bidder may be in another language provided they are accompanied by an accurate translation in English duly notarised, in which case, for all purposes of the bid, the translation shall govern. Bids received without such translation copies are liable to be rejected.

3.5 Bid Currency

Price should be quoted in Indian Rupees (INR) only and Payment shall be made in Indian Rupees only.

3.6 Contacting Tender Inviting Authority

- a) Bidders shall not make attempts to establish unsolicited and unauthorised contact with the Tender Inviting Authority or Tender Scrutiny Committee or Tender Accepting Authority, after the opening of the Tender and prior to the notification of the Award and any attempt by any Bidder to bring in the extraneous pressures on the Tender Accepting Authority and / or the Officials of ELCOT shall be the sufficient reasons to disqualify the Bidder.
- b) Notwithstanding anything mentioned above, the Tender Inviting Authority or the Tender Accepting Authority may seek bonafide clarifications from the Bidders relating to the tenders submitted by them during the evaluation of tenders.

3.7 Force Majeure

Neither the Purchaser/ELCOT nor the Successful Bidder shall be liable to the other for any delay or failure in the performance of their respective obligations due to causes or contingencies beyond their reasonable control such as:

- a) Any act of God such as lighting, earthquake, landslide, etc or other events of natural disaster of rare severity.
- b) Meteorites or objects falling from aircraft or aerial devices, travelling at high speeds.
- c) Act of war (whether declared or undeclared), threat of war, invasion, armed conflict or act of foreign enemy.

3.8 Dispute and Jurisdiction

“Any dispute or difference, whatsoever, arising between the parties to this contract arising out of or in relation to the terms of this contract shall be resolved

by the parties mutually by acting in good faith towards fulfilling the contract and for this purpose the parties mutually agree to furnish or exchange all relevant documents, information and any other material within their special knowledge and thereby conclude their discussions between them / their representatives or officers within a period of time as may be mutually agreed to say the time of commencement of the move to resolve the dispute”.

“In case the parties failed to resolve the disputes amicably within the time frame agreed and in the manner stated supra, the aggrieved party shall approach the Court in Chennai city alone to the exclusion of all other Courts to adjudicate the unresolved dispute”.

4. Eligibility Criteria

The Bidders should have the following Eligibility for participating in the Tender. The Bidders should enclose documentary evidence for fulfilling the Eligibility in the Technical Bid. If a bidder fails to enclose the documentary proof for eligibility, their bid will be summarily rejected.

S. No	Eligibility Conditions	Documentary Proof to be submitted
1.	<p>a) Bidder should be a Company or Partnership or Proprietorship firm Registered in India prior to 31/03/2018</p> <p>b) Bidder should have experience in IT related products for 3 years as on 31.03.2021</p>	<p>a) Copy of the Certificate of incorporation/Registration issued by the relevant statutory authority should be submitted.</p> <p>b) Copy of the work order obtained from the customer or agreement signed dated prior to 31/03/2018 with the customer for any IT related products should be submitted.</p>
2.	Bidder should have an average annual turnover of Rs.1 Crore or above in the last Successive audited financial years	Copies of the Audited financial statements for three Consecutive Financial years should be submitted (2017-18, 2018-19 & 2019-20).
3.	Bidder should have executed at least one Single order for the Supply and Commissioning of Public Address system /Video cameras/smart TV/software based VC for the value of Rs.10 Lakhs or Multiple orders for the value of Rs.20 Lakhs or more executed during any one of the financial years 2017-18, 2018-19 & 2019-20 to any University / Government / Public Sector Undertakings departments.	Copies of work order(s) or Agreements and Completion Certificates from the customers should be submitted.

4.	The Bidder shall be a OEM or their authorised distributors or dealers.	<p>a) For OEM's copy of the Manufacturing License should be submitted</p> <p>(or)</p> <p>b) For authorised distributors or dealers, manufacturer's authorisation letter should be submitted.</p> <p>1) Public Address System 2) Professional Video camera 3) Software based VC</p>
5.	Bidder shall have local office in Tamil Nadu	Copy of the Rental Agreement for 3 or more years and latest telephone bills should be submitted.
6.	Bidder should have at least three service centres in Tamil Nadu. The service centres may be run by the manufacturer or the Franchise or the authorised distributors/dealers	Land-line telephone bills or rent agreement or agreement signed with the franchise dated prior to 31/03/2017 should be submitted as a proof for the availability of the service centre.
7.	OEM/Bidder shall have their own Website.	The URL of the Website Name and Copy of Home Page Print out should be submitted by the bidder including the respective OEM's.
8.	ISO 9001:2008 Certificate issued in the name of OEM for Manufacturing Process/ISO 14001:2008 Certificate issued in the name of OEM for handling of hazardous items in the manufacturing process.	Copies of valid ISO 9001:2008/ISO 14001:2008 Certificates or higher shall be submitted as proofs.

NOTE:-

- 1) Bidder should ensure the OEM support throughout the warranty period for the offered models
- 2) Bidders should ensure that they have uploaded all the required proof of documents self attested and signed with seal as specified in the Tender document without fail. Bids received without the supporting documents to prove their eligibility are liable for rejection. Bidder must be in a position to produce original for verification as and when demanded by ELCOT, failing which, such of those documents will not be considered.
- 3) ELCOT reserves the right to verify the Authenticity and Veracity of any documents submitted for Eligibility criteria.
- 4) In case show cause notice has been issued by ELCOT for poor performance, then ELCOT reserves the right to disqualify the bid submitted by such vendor.

5. Bid Preparation and Submission**5.1 Tender Procedure**

- a) ELCOT is using a Tender portal <https://tntenders.gov.in>. The prospective Bidders should register themselves in the e-Tender Portal and submit the Bids electronically through the e-Tender portal. The paper based physical Tender submission is not permitted.
- b) The prebid meeting will be held on the date and time as mentioned in the Tender Schedule. The Bidders are requested to download the e-Tender help manual and user manuals from the Portal for reference.
- c) It is mandatory for the Bidders to possess a valid Class 3 Digital Signature Certificate (DSC) in the name of the tender submitting authority to complete the e-Tender Bid process as per the provisions of Government of India IT Act 2000 with latest amendments.
- d) The format of the contents of Technical Bid and Price Bid will be available in the tender site. The registered Bidders can log into the e-Tender system and download the tender documents/corrigendums as applicable and go through them carefully. Then the bidders can get ready the relevant documents as required for the technical bid and upload the Documents as indicated before submitting the bid. Similarly the bidder has to download the Bill of Quantity (BOQ), the price bid form in xls format, fill up the relevant portions only in offline and then upload the final one against the price bid portion before submitting the bid.
- e) The contents of the Technical Bid with supporting documents and the Price Bid should be uploaded and submitted online using the Digital Signature Certificates within due date and time indicated.
- f) The Bid forms should be filled and submitted using the Digital Signature Certificates. The supporting documents should be scanned and uploaded in the e-Tender system.

5.2 Cost of Bidding

The Bidders shall bear all the costs associated with the preparation and submission of Bids. ELCOT will in no way be responsible or liable for these charges/costs incurred regardless of the conduct or outcome of the bidding process.

5.3 e-Tender Document Fee

The Tender Documents may be freely downloaded from the portals as mentioned in the Tender Schedule. The Tender document fee is waived, for those documents which are downloaded from the website indicated earlier.

5.4 Tender fee Charges

For each and every Bid submitted, a non-refundable Tender fee charge as mentioned in the Tender Schedule should be paid through online to the details mentioned in S.No.4 of the Tender schedule. In case tender fee charges are paid in advance by the bidder, but due to some reasons the bids could not be uploaded, the Portal charges paid earlier will not be refunded.

5.5 Earnest Money Deposit (EMD)

1) a) An EMD amount as specified in the Tender Schedule, shall be paid through NEFT/RTGS to the details mentioned in S.No.5 of the Tender schedule. In the case of EMD charges paid in advance by the bidder, but due to some reasons, the bids could not be uploaded/ submitted; the EMD charges paid earlier will be refunded by applying through a Letter of request to ELCOT with necessary proofs. The EMD in the form of Bank guarantee is not acceptable

b) The EMD of the unsuccessful Bidders will be returned at the expense of the Bidders within a reasonable time consistent with the rules and regulations in this behalf. The EMD amount held by ELCOT till it is refunded to the unsuccessful Bidders will not earn any interest thereof.

c) The EMD amount of the Successful Bidder can be converted as part of the Security Deposit (SD) for the successful execution of the work and will be returned only after the successful fulfilment of the Contract.

d) Bidders with valid MSME certification are exempted from EMD charges on submission of necessary proof of documents.

2) The EMD amount will be forfeited by ELCOT, if the Bidder withdraws the bid during the period of its validity specified in the tender or if the Successful Bidder fails to sign the contract or the Successful in bidder fails to remit Security Deposit within the respective due dates.

5.6 Updation of payment details

(a) The payment particulars should be entered in the e-Tender Portal. In the e-tender portal the bidder should select payment type as NEFT/RTGS and enter UTR.No. and other details as asked

(b) The necessary payment receipt copies paid through RTGS/NEFT should be submitted to ELCOT through a covering letter indicating the tender reference no, before the due date and time of opening of the tender.

(c) At the time of opening of Technical Bids, the payment committed in the Bid should be factual and should match with the physically submitted payments.

(d) Even though the payment particulars are entered in the Tender portal, if the Bidder fails to submit the physical instrument, their bid is liable for rejection. If any of the information committed in the e-Tender Bid does not match with physically submitted payment, ELCOT reserves the right to reject the bid summarily.

5.7 Letter of Authorization

A letter of Authorisation from the Board of Directors / Appropriate Authority authorising the Tender submitting authority or a Power of Attorney shall be submitted in the bid, otherwise the Bids will be summarily rejected.

5.8 Two Part Bidding

Bidders should examine all Instructions, Terms and Conditions and Technical specifications given in the Tender document. Failure to furnish information required by the Bid or submission of a Bid not substantially responsive in every respect will be at the Bidders risk and may result in rejection of Bids. Bidders should strictly submit the Bid as specified in the Tender, failing which the bids will be non-responsive and will be rejected.

5.8.1 Technical Bid Form

a) The content format of the Technical Bid will be presented in the tender site and the bidder has to upload the relevant documents in the format, as asked in the tender against each item. The Bidder has to verify each uploaded document and then sign the same using the Digital Signature Certificate (DSC) before final submission.

b) The Technical Bid Form should not be changed or altered or tampered. If the Bid form is tampered, the Bids will be summarily rejected.

- c) The Technical Bid Form should not contain any Price indications strictly; otherwise the Bids will be summarily rejected.
- d) The Technical Bid format as given in the Tender shall be filled, signed using the DSC and the scanned copy in the prescribed format shall be submitted.
- e) The supporting documents and other documents should be submitted in pdf in the Technical Bid as indicated in Annexure-7
- f) The bidders should submit the details of make and model of the items offered against the tender requirement as per the compliance sheet is given in the Annexure-6.

5.8.2 Price Bid Form

- a) The Price Bid Form called Bill of Quantity (BOQ) will be in spread sheet format (xls). The original BOQ should be downloaded from the tender site, filled in at the appropriate places indicated in offline and then it has to be uploaded with the same name against the price bid option. The BOQ has to be verified and then signed using the DSC before final submission
- b) The Price Bid Form should not be changed or altered or tampered. If the Bid form is tampered, the Bids will be summarily rejected.
- c) The Price Bid Form should not contain any conditional offers or variation clauses; otherwise the Bids will be summarily rejected.
- d) The Prices quoted shall be only in **INDIAN RUPEES (INR) only**. The tender is liable for rejection if Price Bid contains conditional offers.
- e) The cost quoted by the Bidder shall include cost and expenses on all counts viz., cost of equipment, materials, tools, techniques, methodologies, manpower, supervision, administration, overheads, travel, lodging, boarding, in-station & outstation expenses, etc., and any other cost involved in the supply.
- f) The cost quoted by the Bidder shall be kept firm for a period specified in the Tender from the date of opening of the tender. The Bidder should keep the Price firm during the period of Contract including during the period of extension of time if any. Escalation of cost will not be permitted during the said periods or during any period while providing services whether extended or not for reasons other than increase of duties / taxes payable to the Governments in India within the stipulated delivery period. The Bidders should particularly take note of this factor before submitting the Bids.

g) The Prices finalised after negotiations should be kept valid during the Rate Contract period and no escalation in the final price will be entertained including reasons due to Foreign Exchange fluctuations.

h) **Exchange Rate fluctuations (Foreign Currency Rate Exchange) cannot be cited as reasons for the delay or dishonour of Purchase Order.**

5.9 Bid closing date and time

The Bids should be submitted online not later than the date and time specified in the Tender Schedule or Corrigendum if published. The Tender portal will automatically lock the date and time exactly on the date and time. Even if the Bid submission is in half way through during the closing date and time, submission would not be possible. Hence the Bidders should be cautious to submit the Bids well in advance to avoid disappointments.

5.10 Withdrawal of bids

Bidders can withdraw their bids submitted earlier, in case they don't want to Participate in this tender, may withdrawal the uploads before the bid closing date and time. Bidders should note that once withdrawn, bid cannot be submitted again for this tender.

5.11 Resubmission of bids

Bidders can resubmit the bids at any point of time either in technical bid or in price bid or both, before the bid submission end date and time and only the last content updated successfully will be available for bid opening, at the scheduled date and time.

5.12 Bid acknowledgement

The e tender system will issue a bid acknowledgement receipt which is the final proof for the successful bid submission from the bidder side.

6. Tender opening and Evaluation

6.1 Technical Bid Opening

The Technical Bid will be opened online on the date and time as specified in the Tender schedule in the presence of those Bidders, who choose to be present against production of an authorisation letter from the Bidding authority. A maximum of two representatives for each Bidder would be allowed to attend the Tender opening.

6.2 Tender Validity

The offer submitted by the Bidders shall be valid for a minimum period of 90 days from the date of opening of the Tender as per TT Act. The Rate Contract will be valid for **12 months** from the date of signing of the contract or agreement/date of release of the first Purchase order. However ELCOT reserves the right to extend or short close the Tender validity period if situation warrants to benefit the Government.

6.3 Initial Scrutiny

Initial Bid scrutiny will be conducted and incomplete details as given below will be treated as non-responsive.

If Tenders are;

1. not submitted in two parts as specified in the Tender
2. received without the Letter of Authorisation
3. received without Portal charges and EMD amount
4. found with suppression of details
5. with incomplete information, subjective, conditional offers.
6. submitted without support documents as per the Eligibility Criteria and Evaluation Criteria
7. non-compliance of any of the clauses stipulated in the Tender
8. lesser validity period

All responsive Bids will be considered for further evaluation. The decision of ELCOT will be final in this regard.

6.4 Clarifications by ELCOT

When deemed necessary, ELCOT may seek bonafide clarifications on any aspects from the Bidder. However, that would not entitle the Bidder to change or cause any changes in the substance of the Bid or price quoted. During the course of Technical Bid evaluation, ELCOT may seek additional information for verification to facilitate decision making. In case the Bidder fails to comply with the requirements of ELCOT as stated above, such Bids may at the discretion of ELCOT, shall be rejected as technically non-responsive.

6.5 Tender Evaluation

6.5.1 Suppression of facts and misleading information

- a) During the Bid evaluation, if any suppression or misrepresentation is brought to the notice of ELCOT, ELCOT shall have the right to reject the Bid and if after selection, ELCOT would terminate the contract, as the case may be, will be without any compensation to the Bidder and the EMD / SD, as the case may be, shall be forfeited.
- b) Bidders shall note that any information in the proof documents submitted by the Bidders for proving their eligibility is found suppressed or erased, ELCOT shall have the right to seek the correct facts and figures or reject such Bids.
- c) It is up to the Bidders to submit the full copies of the proof documents to meet out the criteria. Otherwise, ELCOT at its discretion may or may not consider such documents.
- d) The Tender calls for full copies of documents to prove the Bidder's experience and capacity to undertake the project.

6.5.2 Technical Bid Evaluation

- a) A Tender Committee will examine / scrutinise the Technical Bids against the Eligibility Criteria and Evaluation Criteria given in the Tender document. The evaluation will be conducted based on the support documents submitted by the Bidders. The documents which did not meet the eligibility criteria in the first stage of scrutiny will be rejected in that stage itself and further evaluation will not be carried out for such bidders. The eligible Bidders alone will be considered for further evaluation.
- b) The offered models will be evaluated either through technical brochures or sample against the tender specification as given in the Scope of work to select the technically qualified bidder.
- c) The bidders, if required have to submit their samples as per the terms specified in "8.2 Sample Submission Clause" or technical brochures.
- d) For those Bidders who have already worked or working with ELCOT, their previous performance in ELCOT would be the optional criteria for selection. If any unsatisfactory performances of those Bidders are found, their Bids will be straight away rejected.

The Unsatisfactory performance is defined as

1. Non responsiveness after getting the Purchase order
2. Delay in supply, installation of the ordered items etc.

3. Lack of communication about the delay in deliveries, Installation etc.
4. Poor warranty support etc.,
5. Not executing the Contract.
6. Not submitting the Security Deposit in the stipulated time.

6.5.3 Price Bid Evaluation

- (1) The Price Bids of the Technically Qualified Bidders alone will be opened online for evaluation in the presence of the Technically Qualified Bidders who are present at ELCOT. The Price bid shall include all the expenses toward this tender. The Bidders or their authorised representatives will be allowed to take part in the Price Bid Opening.
- (2) All the taxes indicated in the Price Bid will be taken for the Price Bid evaluation as per the Tamil Nadu Transparency in Tender Rules 2000 with latest amendment as amended from time to time.
- (3) As this is a Rate Contract, the Price Bid Evaluation shall include all components of GST as part of the price. The GST rates quoted should comply with the statutory guidelines and will be paid as applicable at the time of billing
- (4) The prices will be evaluated as per the tender rules and the decision of ELCOT will be final. The bidder should quote for all the items of the Public Address systems, video cameras, smart TV and software based VC mentioned in the tender document. Partial bid is not allowed.
- (5) The bidder shall quote for all the tendered items mentioned in the tender document.
- (6) The total value excluding applicable GST and including all other duties and charges (Such as Customs Duty, other duties not subsumed under GST, Installation Charges etc., as per the guidelines stated above) for all the items will be taken up for Price Bid evaluation. **The Bidders who quote L1 Price for the total value of items will be called as L1 Bidder.** However, the L1 Bidder will be asked to match the L1 Prices of line items if any, in case they have become L2 for those line items.
- (7) The Technically Qualified Bidders will be negotiated to match L1 Price. If more than one Bidder matches the L1 Price, then order will be placed more than one Bidder, who matches the L1 Price. However, preference will be given to the L1 Bidder. The L1 Bidder will be given an order value more than the other Bidders, who match the L1 Price.

- (8) All the Bidders, who are selected after the Price Bid evaluation will be called as Successful Bidders.
- (9) The Successful Bidder should not sell the Tendered items to any other Customers at the price which is lower than the final negotiated price offered to ELCOT. If it is found that it has been sold at lower rate, then that lower price will be fixed by ELCOT for that item in future and also for the already supplied quantities under this tender.

6.6 Negotiations

Negotiations will be conducted with all the Successful Bidders for improvement in the Scope of Work, Specification, further reduction in price and advancement of delivery schedule.

6.7 Award of Contract

1. Total quantity will be apportioned among the L1 Bidder and other Bidders who have agreed to match L1 rate, as per the provisions of Tamil Nadu Transparency in Tenders Act, 1998 and the Tamil Nadu Transparency in Tenders Rules, 2000 amended from time to time and Terms and Conditions of the Tender.
2. No dispute can be raised by any Bidder whose Bid has been rejected and no claims will be entertained or paid on this account.
3. If the Customer desires the specific make, then orders will be issued as per the discretion of ELCOT.

6.8 ELCOT reserves the right to:

1. Insist on quality / specification of materials to be supplied.
2. Modify, reduce or increase the quantity requirements to an extent of the tendered quantity as per the provisions of Tamil Nadu Transparency in Tenders Act 1998 and Tamil Nadu Transparency in Tenders Rules, 2000 amended from time to time.
3. Change the list of areas of supply locations from time to time based upon the requirement of the purchase.
4. Ask other qualified Bidders to match the L1 price as this is a rate contract tender.
5. Reallocate the quantity to other Bidder, if delivery performance of the Bidder is not as per the Schedule.
6. Inspect the bidders' factory before or after placement of orders and based on the inspection,

7. Withhold any amount for the deficiency in the service aspect of the ordered items supplied to the customers.
8. Negotiate with the Bidder whose offer is the lowest evaluated price for further reduction in prices.

7. Execution of Work

7.1 Acceptance of Tender and Withdrawals

The final acceptance of the tender is entirely vested with ELCOT who reserves the right to accept or reject any or all of the tenders in full or in parts without assigning any reason whatsoever. The Tender Accepting Authority may also reject all the tenders for reasons such as change in Scope, Specification, lack of anticipated financial resources, court orders, calamities or any other unforeseen circumstances. After acceptance of the Tender by ELCOT, the Successful Bidder shall have no right to withdraw their tender or claim higher price.

7.2 Letter of Acceptance (LOA)

After acceptance of the Tender by ELCOT, a Letter of Acceptance (LOA) will be issued to the Successful Bidder(s) by ELCOT. Under this rate contract, ELCOT has the right to issue LOA to more than one bidder.

7.3 Payment of Security Deposit (SD)

The Successful Bidders will be required to remit the Security Deposit (SD) equivalent to **Five** percent of the value of the order, inclusive of EMD paid through online by RTGS/NEFT mode as per the Sl.no.5 of the tender schedule or in the form of unconditional irrevocable Bank Guarantee valid for a period of 15 months from the date of Letter of acceptance of the tender on receipt of confirmation from ELCOT. **The SD shall be paid within 10 days from the date of issue Letter of Acceptance (LOA) by ELCOT.** The Security Deposit will be refunded to the Successful Bidder only after the satisfactory completion of the contract period or extended the period, if any. The Security Deposit held by ELCOT till it is refunded to the Successful Bidder will not earn any interest thereof. The Security Deposit will be forfeited if the Successful Bidder withdraws the Bid during the period of Bid validity specified in the Tender or if the Bidder fails to sign the contract.

7.4 Execution of Contract

- a) The Successful Bidder shall execute a Contract in the non-judicial Stamp Paper of the required amount bought in Tamil Nadu only in the name of the

Bidder within 7 days from the date of Letter of Acceptance issued by ELCOT with such changes/modifications as may be indicated by ELCOT at the time of execution on receipt of confirmation from ELCOT.

- b) The Successful Bidder shall not assign or make over the contract, the benefit or burden thereof to any other person or persons or body corporate for the execution of the contract or any part thereof without the prior written consent of ELCOT. ELCOT reserves its right to cancel the purchase order either in part or full, if these conditions are violated. If the Successful Bidder fails to execute the Contract within the stipulated time in the tender, the EMD/SD of the Successful Bidder will be forfeited and their tender will be held as non-responsive.
- c) The expenses incidental to the execution of the Contract shall be borne by the Successful Bidder.
- d) The conditions stipulated in the Contract shall be strictly adhered to and violation of any of the conditions will entail termination of the contract without prejudice to the rights of ELCOT and ELCOT also have the right to recover any consequential losses from the Successful Bidder.

7.5 Release of Purchase Order

After execution of the Contract and payment of Security Deposit, “**Firm Purchase Order**” for the supply and commissioning of Tendered items will be issued to the Successful Bidder by ELCOT. The supply and payment will be based on the Purchase Order(s) issued from time to time.

7.6 Refund of EMD

The EMD amount paid by the Successful Bidder will be adjusted towards Security Deposit payable by them. If the Successful Bidder submits Security Deposit for the stipulated value, the EMD will be refunded through online by RTGS/NEFT. The EMD amount of the Unsuccessful Bidder will be refunded after finalisation of contract agreement with the Successful Bidder.

7.7 Release of SD

The Security Deposit will be refunded to the Successful Bidder on completion of entire supply subject to satisfaction of ELCOT. Such completion would be arrived at when the entire quantity is supplied by the Successful Bidder(s) as per the Contract Agreement and as per Work Order(s) issued by ELCOT from time to time.

7.8 Forfeiture of EMD and SD

- a) If the successful Bidder fails to act according to the tender conditions or backs out, after the tender has been accepted, the EMD will be forfeited to ELCOT.
- b) If the Successful Bidder fails to remit the SD, the EMD remitted by him will be forfeited to ELCOT and the tender will be held void.
- c) If the Successful Bidder fails to act up on to the tender conditions or backs out from the Contract, the SD mentioned above will also be forfeited by ELCOT.

7.9 Termination of Contract

7.9.1 Termination for default

- a) ELCOT may without prejudice to any other remedy for breach of contract, by written notice of default with a notice period of 7 days, sent to the Successful Bidder, terminate the contract in whole or part,
 - (i) if the Successful Bidder fails to deliver any or all of the goods within the time period(s) specified in the Contract, or fails to supply the items as per the Delivery Schedule or within any extension thereof granted by ELCOT;
or
 - (ii) if the Successful Bidder fails to perform any of the obligation(s) under the contract;
or
 - (iii) if the Successful Bidder, in the judgement of ELCOT, has engaged in fraudulent and corrupt practices in competing for or in executing the Contract.
- b) In the event ELCOT terminates the Contract in whole or in part, ELCOT may procure, upon terms and in such manner as it deems appropriate, the goods and services similar to those and delivered and the Successful Bidder shall be liable to ELCOT for any additional costs for such similar goods. However, the Successful Bidder shall continue the performance of the contract to the extent not terminated.

7.9.2 Termination for Insolvency

ELCOT may at any time terminate the Contract by giving written notice with a notice period of 7 days to the successful bidder, if the Successful Bidder becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the successful bidder, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to ELCOT.

7.9.3 Termination for Convenience

ELCOT may by written notice with a notice period of seven days sent to the Successful Bidder, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for ELCOT's convenience, the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective. On termination, the Successful Bidder is not entitled to any compensation whatsoever.

7.10 Execution of Work Order

The Successful Bidder shall nominate and intimate ELCOT an Account Manager for Single Point of Contact (SPOC), who shall be responsible for effective delivery of work complying with all the terms and conditions. The Successful Bidder shall ensure that the Account Manager fully familiarises with the Tender Conditions, Scope of Work and deliverables.

7.11 Assigning of Tender whole or in part

The successful Bidder shall not assign or make over the contract, the benefit or burden thereof to any other person or persons or body corporate. The Bidder shall not under-let or sublet to any person(s) or body corporate for the execution of the contract or any part thereof without the prior written consent of ELCOT.

7.12 Liquidated Damages (LD)

Liquidated damages will be levied at the rate of 0.25% per day on the undelivered portion of the material, if delivery not completed within stipulated period. The delivery period will effect from the date of receipt of confirmed consignee address. If the Successful Bidder fails to supply even after the lapse of one month after the stipulated date of delivery, then the orders/contracts are liable for cancellation and the EMD/ Security Deposit will be forfeited in addition to ELCOT reserving the right to blacklist the successful bidders for a period of

three years from participating in ELCOT's tenders. This alone will not relieve the Successful Bidder and the difference in cost of the items purchased through other technically qualified Bidders or any other alternative sources will be recovered from the Successful Bidder.

7.13 Penalty for Non-Fulfilment of Tender

A penalty will be levied at 5% of total value of purchase order in the event of non-fulfilment or non-observance of any of the conditions stipulated in the Contract, Terms and Conditions and work Order/Contract

7.14 Other Conditions

- a) The final decision would be based on the technical capacity and pricing of the Bidder. ELCOT does not bind itself in selecting the bidder offering lowest prices.
- b) ELCOT reserves the right not to accept lowest price, to reject any or all the tenders without assigning any reasons, to relax or waive any of the conditions stipulated in the terms and conditions of tender as deemed necessary in the best interest of ELCOT for good and sufficient reasons.

7.15 Dispute and Jurisdiction

"Any dispute or difference, whatsoever, arising between the parties to this contract arising out of or in relation to the terms of this contract shall be resolved by the parties mutually by acting in good faith towards fulfilling the contract and for this purpose the parties mutually agree to furnish or exchange all relevant documents, information and any other material within their special knowledge and thereby conclude their discussions between them / their representatives or officers within a period of time as may be mutually agreed to say the time of commencement of the move to resolve the dispute".

"In case the parties failed to resolve the disputes amicably within the time frame agreed and in the manner stated supra, the aggrieved party shall approach the Court in Chennai city alone to the exclusion of all other Courts to adjudicate the unresolved dispute".

7.16 Other Documents to be included:

1. Copy of ESI Registration or necessary Exemption Letter for ESI Registration shall be submitted.
2. Copy of EPF Registration or necessary Exemption Letter for EPF Registration shall be submitted.

8. Scope of Work

8.1 Scope of Work

The successful bidder has to undertake to Supply and Commissioning of the Public Addressing system, Video cameras, smart TV and software based VC to Various Government Departments in Chennai as well as across Tamil Nadu as per the requirements that may arise from time to time during the contract period. The detailed Scope of Work is given below.

1. Supply and Installation of Conferencing Microphone system / Chairman Delegate system with required cables & accessories
2. Supply and Installation of Amplifiers with required cables and accessories
3. Supply and Installation of Speakers, subwoofers with required brackets, stands, Cables and accessories
4. Supply and Installation of Microphones with required cables, stands and accessories
5. Supply and Installation of Rack, Stabilizer and Other accessories
6. Supply and Installation of Audio Mixing Console for connecting Speakers / Microphones with required cables and accessories
7. Supply and Installation of Video camera with required cables, stands and accessories
8. Supply and Installation of smart TV and related accessories
9. Supply and Installation of LED Display with required cables and accessories.
10. Supply and Commissioning of software based VC system according to end user requirements with 1 year subscription charge
11. To carry out the Site survey for Public Addressing system & LED Display at the Client sites requested as per their requirements and the site survey report in a prescribed format should be submitted
12. To carry out the bandwidth requirements and number of end user for supply of software based VC system.
13. Preparation and submission of complete Bill of Materials (BOM), location wise for the requirements.
14. Preparation and submission of the details of the man power deployment for the project, if required

15. Dispatch of materials as per the schedule submitted. The materials should be brand new and as per the tender specifications / requirements.
16. Preparation and submission of schedule for installation and testing to meet the requirements.
17. The Installation report in a prescribed format should be submitted by the Vendor mentioning serial no's of equipment's supplied, Installation completion date, Training completion date and warranty expiry date with duly attested by the End users.
18. User Manual of the Public addressing equipment as well as for accessories should be handed over to the clients.
19. The Vendor has to coordinate with the user Departments and ELCOT during execution of the work for the requirements.
20. The Vendor shall set up a 24x7 help desk at Chennai to register the calls reported, to support the supplied equipment's compliant of the contact numbers of the Network Integrator desk numbers would be circulated amongst the Departments for raising services calls. All service calls raised shall be registered using Industry Standard Help Desk Software. Periodical service call reports to be submitted to ELCOT for review and to undertake necessary steps on the pending calls.
21. Provide comprehensive onsite Warranty for a period minimum of 1 year or standard product warranty Period whichever is later, including replacement of equipment's supplied under this project except software based VC system
22. Maintain the equipment's for two years after the expiry of the warranty Period whichever is later under Annual Maintenance Contract as required by the end-user except software based VC system
23. To Train the Officials on the operations of the equipment and also about the troubleshooting methods.

8.2 Sample Submission

a) For item quoted in the Tender, the samples should be submitted indicating the make, model number and brochures / specification of the items as per Annexure -7.4 of the Tender. OEM's quoted Make & Model and Brochure shall be made available in the OEM's Websites till the completion of supply. The OEM / Bidder shall ensure that the quoted Model shall be available for at least one year from the date of opening of the technical bid documents.

b) The bidders have to submit two No's of samples to ELCOT during the office hours on or before the bid submission due date and time if required.

c) Such samples should be delivered at the address mentioned in the Tender Schedule along with the INTERNAL TEST REPORT **(Format Prescribed in Annexure-6)** carried out by the OEM / Bidder as per this Tender specifications duly certified by the OEM / Bidder's Quality Inspection Officer with signature and designation.

d) If the samples are not delivered within the time limit specified in the Tender, it would be treated as non-responsive to the Tender conditions and the Bid is liable for rejection.

e) The OEM or the Bidder shall depute a technical team to coordinate with ELCOT Officials for the evaluation of the Samples as per the time schedule given to them. The time schedule given for evaluation shall be adhered to by each Bidder, failing which ELCOT will treat them as non-responsive and liable for rejection of their Bid.

8.2.1 Compliance with Technical Specification

The OEM's compliance to the Technical Specifications submitted in the Technical Bid of the Bidder will be scrutinized. Further, the Samples will be tested in line with the compliance submitted by the OEM. The Samples which do not meet the above criteria will be rejected. The whole evaluation exercise would be done in the presence of the bidders in a transparent manner.

8.2.2. Analysis of Samples

a) If the equipment supplied for evaluation meets the tender specifications, it would be treated that the equipment had passed the "specifications test". If the specifications are below the tender specifications, then the equipment would be treated as "failed" in the "specifications test". The bidders shall take utmost care to bring in the samples which shall be equal to or better than the specifications given in the tender documents.

b) ELCOT reserves the right to reject a sample if it is found that it does not meet the specifications. In such cases the bidder would be treated as "failed" in this test.

8.3 Supply, Installation and Commissioning

The Successful Bidder should do a site survey for the end user departments and understand the customers' requirements in detail. After the site survey a detailed solution proposal with comprehensive Bill of Material and time frame of implementation should be submitted to ELCOT. All installations carried out by the Successful Bidder shall conform to the national standards and code of practices. The Successful Bidder should provide end to end solution integration based on the proposal submitted and as per the purchase order of ELCOT.

- a) **Delivery:** The items should be delivered within 30 days from date of issue of Purchase Order however should be installed and commissioned within 1 week from date of supply. However, the Delivery Schedule/Implementation will be decided based on the Site Survey Report as well as the discussions with the end users/ customers on case to case basis. Based on any urgent requirement of end user, delivery schedule may be reduced by ELCOT after discussions and concurrence from successful bidder.
- b) The Successful Bidders after obtaining the Consignee address should visit the sites to assess the readiness of the site for installation. A report in this aspect has to be submitted to ELCOT within 3 days. ELCOT may advise the Purchaser to prepare the site ready for installation.
- c) However the Customer is responsible for the site preparation before the scheduled installation dates. Purchase of Work Order will be issue to the vendor only after receipt of site ready condition from the customer subject to validity of the contract agreement.
- d) The Successful Bidder is responsible for all unpacking, assemblies, wiring, installations, cabling between hardware units and connecting to power supplies. The Successful Bidder will test all hardware operations and accomplish all adjustments necessary for the successful and continuous operation of the hardware at all the installation sites.
- e) The Successful Bidders selected for various equipment's to be installed at a single user premises, shall co-ordinate with each other and prepare a list where delivery is planned by all the parties, so that installation and handing over can be carried out to the consignees suitably / simultaneously by all the parties. The Successful Bidder must send the proposed delivery schedule to each consignee and to ELCOT well in advance

- f) The Successful Bidder shall be responsible for the commissioning of the items supplied by interfacing / integrating with the purchaser's equipment / accessories / software supplied by other vendors
- g) The supply and installation of ordered items along with necessary operational and user manuals / drawings, circuit diagram, etc., should be handed over to the end user departments with one copy to ELCOT.
- h) After the successful Installation, commissioning and handing over of the ordered items to the consignees, the Successful Bidder must obtain signed installation certificate in the specified format certified by the respective consignee on the installed items.
- i) The Successful Bidder shall send status report in the format prescribed on various intervals, as may be required by ELCOT from time to time, till the execution of the entire order. Status Report Format will be provided to the Successful Bidder along with the Letter of Acceptance.
- j) The Successful Bidder shall undertake to supply the spares for the maintenance of the offered items.
- k) The details of phone, fax, mobile numbers & email address of
 - 1) Service centre representative responsible for the installation, warranty services.
 - 2) Higher level in charge who is responsible for the above representatives
 - 3) Persons controlling representatives and their in charge should be furnished in advance
- l) In the rare event of non-acceptance of delivery items by the end user, the Successful Bidder should immediately report to ELCOT for suitable directions.

8.4 Warranty Clause

The warranty clauses during the free warranty period minimum of 1 year or standard product warranty Period whichever is later is given below:

- a) All the Tendered items shall be supplied to the customer site free from breakages, malfunctions, breakdowns or manufacturing defects. If any of the items are found defective due to manufacturing defect or design fault or transit damage occurred at the time of supply or within one month from the date of installation, the items in full shall be replaced within one month from the date of installation.

- b) All the materials and components of the Tendered items shall be covered with a warranty minimum of 1 year or standard product warranty Period whichever is later from the date of signing of installation report of the ordered items. All the Tendered items supplied shall be free from breakages, malfunctions, breakdowns or manufacturing defects. If any of the items are found defective due to manufacturing defect or design faults or transit damages occurred at the time of supply, the items in full shall be replaced within one month from the date of installation.
- c) The successful Bidder shall give an undertaking to maintain the spares of all the hardware items of 2% of the total quantity ordered.
- d) During the warranty period, the complaints received from the Purchasers should be attended within 48 hours. If the complaint is not attended within 48 hours, penalty will be imposed as follows:-
- i. If the complaint is received during the forenoon (up to 2 PM), the complaint shall be attended on the same day.
 - ii. If the complaint is received during the afternoon (after 2 PM), the complaint shall be attended on the next day. If the next day is a declared Holiday, the complaint shall be attended in the next working day under normal circumstances. In emergency situations or urgent requirements of the customer, the complaint shall be attended to within 2 hours on the same day.
 - iii. All the complaints shall be attended from the nearest service centres.
 - iv. All the complaints shall be rectified within 2 working days excluding the date of complaint.
- If the complaints are not rectified within the stipulated period as mentioned in class 8.4 (d) (iv) an equivalent standby shall be supplied till rectification. A penalty of 0.25% on the value of the item will be charged per day till the equipment is put on working condition, in case if the standby item is not supplied
- (e) The successful bidder/supplier should send information through email (on the progress made on the supplies such as (a)Delivery, (b)SNR if any, (c)Installation, (d)Bill submission, (e)Warranty completion and (f)AMC start. The supplier should intimate ELCOT and the respective customer department/purchaser on the warranty completion date atleast 3 months (one quarter) with a request to confirm their willingness on the AMC support services and follow up with the customer/purchaser on the AMC support services

8.5 AMC Clause

The Successful Bidder agrees to provide comprehensive maintenance after expiry of warranty Period whichever is later of all the systems which shall include preventive maintenance and corrective maintenance as per the end user requirements except software based VC system. The maintenance shall also include replacement of all parts.

8.6 Service Centre

As the Public Address Systems and software based VC are to be commissioned anywhere in the State of Tamil Nadu, the Successful Bidder should furnish the details as per the tender with address, contact person and his/her telephone number, including mobile phone number and email id for at least three service centres in Tamil Nadu.

9. Payment Clause

- 1) No advance payment will be made.
- 2) 95% of the total cost of ordered items will be paid by ELCOT on behalf of the Purchaser, on installation, commissioning and handing over of the ordered items to the Purchaser, after testing the technical specifications. However if the site is not ready within 7 days of delivery, 75% of total cost will be paid on submitting the proof of delivery and certificate from the purchaser that the site is not ready, after receipt of funds from the Purchaser and balance 20% total cost will be paid on installation, commissioning and handing over of the systems.
- 3) Bills will be honoured after submission along with all supporting documents in complete shape.
- 4) The balance 5% of the payment will be released by ELCOT on behalf of the Purchaser, after satisfactory completion of warranty period. Alternatively,
 - (i) For supply of PA system if the Successful Bidder produces an irrevocable Bank Guarantee for the balance 5% valid for 15 months during the warranty period, then the balance 5% payment will be released after observing the formalities stipulated.
 - (ii) For supply of software based VC, if the Successful Bidder produces an irrevocable Bank Guarantee for the balance 5% valid for 15 months during the support period, then the balance 5% payment will be released after observing the formalities stipulated.

- 5) If the Purchaser is not issuing a SNR (Site Not Ready) certificate, the Successful Bidder may give a letter to ELCOT stating that the Purchaser is not issuing a SNR. The 75% of total cost of the invoice will be made to the Successful Bidder after the receipt of funds from the Purchaser, on verifying the same with the end user department by ELCOT.
- 6) 100% payment will be released by ELCOT on behalf of the Purchaser, after satisfactory completion of the enduser certificates for every quarter towards Manpower deployment at the respective sites.
- 7) The Successful Bidder hereby agrees to get the refund of incentive, duties and proportionate taxes from authorities concerned and pass it on to ELCOT/Purchaser(s) if the Government or any other appropriate agency reduces the duty or tax or give incentive of any type retrospectively after supplying the Ordered items failing which action will be taken to recover the balance amount from the Successful Bidder under the Revenue Recovery Act or any other relevant act.
- 8) Penalty amount(s) if any, will be adjusted in the payment due to the Successful Bidder.
- 9) All taxes and other levies imposed by Governments in India will be paid at actuals as applicable.

10. Penalty Clause

- a) A penalty will be levied at the rate of 0.25% per day if the delivery is not completed in full within the stipulated period. The delivery period will effect from the date of receipt of confirmed consignee address. Besides such performance may entail black-listing of Successful Bidder. If the Successful Bidder fails to supply even after the lapse of one month after the stipulated date of delivery, then the orders/contracts are liable for cancellation and the EMD/Security Deposit will be forfeited in addition to ELCOT reserving the right to blacklist the Successful Bidder for a period of three years from participating in ELCOT's tenders.
- b) In the event of non-fulfillment or non-observance of any of the conditions stipulated in the Contract, the Successful Bidder shall pay as penalty an amount Equivalent to 10% of total value of contract or an amount Equal to the actual loss incurred by ELCOT (or) the Purchaser (s) whichever is higher subject to the condition that the loss amount would not exceed the value of the goods supplied.

- c) Notwithstanding anything contained in the penalty clause, ELCOT reserves the right to blacklist the Successful Bidder from taking part in any of the procurement operations of ELCOT for a minimum period of three years from the date of blacklisting for failure to carryout supply in time or according to the quality and quantity prescribed or any such similar reasons. This penalty shall be over and above all other penalties.

Annexure-1 Model Form of Contract

(To be executed on a Rs. 20/- Non-Judicial Stamp Paper bought in Tamil Nadu by the Successful Bidder for Supply and Commissioning of Public address systems, video cameras, smart TV and software based VC systems

(NO FIGURES IN NUMERALS OR WORDS SHALL BE FILLED UP IN THIS SAMPLE FORM AT THE TIME OF SUBMISSION OF TENDER)

This Contract is entered into at Chennai on the day of 2021 between Electronics Corporation of Tamil Nadu Limited, a wholly owned Government of Tamil Nadu Undertaking, a Company registered under the Indian Companies Act, 1956 and having its Registered office at 692, Anna Salai, Nandanam, Chennai- 600 035 herein after referred to as “ELCOT” (which term shall mean and include its Successors and permitted assigns)

and

a Company registered under the Indian Companies Act, 1956 and having its Registered Office at hereinafter referred to as the “Successful Bidder” (which term shall mean and include its successors and permitted assigns).

Whereas, ELCOT on behalf of the Government of Tamil Nadu has invited a Rate Contract tender vide Tender Ref.No.**ELCOT/Networks/OT/33458/PA System and software based VC/2021-22** for Supply and Commissioning of Public Address Systems, Video cameras, smart TV and software based VC system on Rate Contract basis and the Successful bidder has been selected for the execution of work as per the tender document. Whereas ELCOT and the Successful Bidder in pursuance thereof have arrived at the following terms and conditions.

- (1) This document on having been signed by both the parties shall constitute a binding contract between the parties and shall remain in force for a period of **12 Months**. ELCOT may renew/extend the contract for a further period as may be agreed between the parties but in the event of any breach of agreement at any time on the part of the Successful Bidder, the contract shall be determinable by ELCOT without compensation to the Service Provider. The contract may also be put to an end at any time by ELCOT upon giving seven days notice to the Successful Bidder.
- (2) The Successful Bidder agrees that in the event of failure of 10% or more of the vital components of the equipments occurring during the warranty period, ELCOT would have a right to blacklist them for any procurement through ELCOT for a period of three years from that date.
- (3) The Successful Bidder agrees to supply and commissioning of Public Address Systems , Video Cameras, LED video wall display and software based VC as per ELCOT Tender **ELCOT/Networks/OT/33458/PA System and software based VC/2021-22** after carrying out successfully all the tests prescribed by ELCOT at an unit price of Rs..... (Rupees) plus applicable Taxes as detailed in Annexure- 'A' to this Agreement to the Purchaser(s) before the specified date. The price offered is firm and is not subject to enhancement on any grounds.
- (4) **Delivery Schedule:**
- a) **Delivery:** The items should be delivered within 30 days from date of issue of Purchase Order however should be installed and commissioned within 1 week from date of supply. However, the Delivery Schedule/Implementation will be decided based on the Site Survey Report as well as the discussions with the end users/ customers on case to case basis. Based on any urgent requirement of end user, delivery schedule may be reduced by ELCOT after discussions and concurrence from successful bidder.
- b) The Successful Bidders after obtaining the Consignee address should visit the sites to assess the readiness of the site for installation. A report in this aspect has to be submitted to ELCOT within 3 days. ELCOT may advise the Purchaser to prepare the site ready for installation.
- c) However the Customer is responsible for the site preparation before the scheduled installation dates.

- d) The Successful Bidder is responsible for all unpacking, assemblies, wiring, installations, cabling between hardware units and connecting to power supplies. The Successful Bidder will test all hardware operations and accomplish all adjustments necessary for the successful and continuous operation of the hardware at all the installation sites.
- e) The Successful Bidders selected for various equipment's to be installed at a single user premises, shall co-ordinate with each other and prepare a list where delivery is planned by all the parties, so that installation and handing over can be carried out to the consignees suitably / simultaneously by all the parties. The Successful Bidder must send the proposed delivery schedule to each consignee and to ELCOT well in advance
- f) The Successful Bidder shall be responsible for the commissioning of the items supplied by interfacing / integrating with the purchaser's equipment / accessories / software supplied by other vendors
- g) The supply and installation of ordered items along with necessary operational and user manuals / drawings, circuit diagram, etc., should be handed over to the end user departments with one copy to ELCOT.
- h) After the successful Installation, commissioning and handing over of the ordered items to the consignees, the Successful Bidder must obtain signed installation certificate in the specified format certified by the respective consignee on the installed items.
- i) The Successful Bidder shall send status report in the format prescribed on various intervals, as may be required by ELCOT from time to time, till the execution of the entire order. Status Report Format will be provided to the Successful Bidder along with the Letter of Acceptance.
- j) The Successful Bidder shall undertake to supply the spares for the maintenance of the offered items.
- k) The details of phone, fax, mobile numbers & email address of
- 1) Service centre representative responsible for the installation, warranty services.
 - 2) Higher level in charge who is responsible for the above representatives
 - 3) Persons controlling representatives and their in charge should be furnished in advance
- l) In the rare event of non-acceptance of delivery items by the end user, the Successful Bidder should immediately report to ELCOT for suitable directions.

(5) **WARRANTY:-**

The warranty clauses during the free warranty period minimum of **1 year or standard product warranty Period whichever is later** is given below:

- a) All the Tendered items shall be supplied to the customer site free from breakages, malfunctions, breakdowns or manufacturing defects. If any of the items are found defective due to manufacturing defect or design fault or transit damage occurred at the time of supply or within one month from the date of installation, the items in full shall be replaced within one month from the date of installation.
- b) All the materials and components of the Tendered items shall be covered with warranty minimum of **1 year or standard product warranty Period whichever is later** from the date of signing of installation report of the ordered items except software based VC. The supplied software based VC system should have **support period of 1 year**. All the Tendered items supplied shall be free from breakages, malfunctions, breakdowns or manufacturing defects. If any of the items are found defective due to manufacturing defect or design faults or transit damages occurred at the time of supply, the items in full shall be replaced within one month from the date of installation.
- c) The successful Bidder shall give an undertaking to maintain the spares of all the hardware items of 2% of the total quantity ordered.
- d) During the warranty period, the complaints received from the Purchasers should be attended within 48 hours. If the complaint is not attended within 48 hours, penalty will be imposed as follows:-
 - i. If the complaint is received during the forenoon (up to 2 PM), the complaint shall be attended on the same day.
 - ii. If the complaint is received during the afternoon (after 2 PM), the complaint shall be attended on the next day. If the next day is a declared Holiday, the complaint shall be attended in the next working day under normal circumstances. In emergency situations or urgent requirements of the customer, the complaint shall be attended to within 2 hours on the same day.
 - iii. All the complaints shall be attended from the nearest service centres.
 - iv. All the complaints shall be rectified within 2 working days excluding the date of complaint.

If the complaints are not rectified within the stipulated period as mentioned in class 8.4 (d) (iv) an equivalent standby shall be supplied till rectification. A penalty of 0.25% on the value of the item will be charged per day till the equipment is put on working condition, in case if the standby item is not supplied

- e) The successful bidder / supplier should send information through email (on the progress made on the supplies such as (a) Delivery, (b) SNR if any, (c) Installation, (d) Bill submission, (e) Warranty completion and (f) AMC start. The supplier should intimate ELCOT and the respective customer department / purchaser on the warranty completion date atleast 3 months (one quarter) with a request to confirm their willingness on the AMC support services and follow up with the customer /purchaser on the AMC support services

(7) PAYMENT TERMS:

- 1) No advance payment will be made.
- 2) 95% of the total cost of ordered items will be paid by ELCOT on behalf of the Purchaser, on installation, commissioning and handing over of the ordered items to the Purchaser, after testing the technical specifications subject to receipt of funds from end user. However if the site is not ready within 7 days of delivery, 75% of total cost will be paid on submitting the proof of delivery and certificate from the purchaser that the site is not ready, after receipt of funds from the Purchaser and balance 20% total cost will be paid on installation, commissioning and handing over of the systems.
- 3) Bills will be honoured after submission along with all supporting documents in complete shape.
- 4) The balance 5% of the payment will be released by ELCOT on behalf of the Purchaser, after satisfactory completion of warranty period. Alternatively,
 - (i) For supply of PA system if the Successful Bidder produces an irrevocable Bank Guarantee for the balance 5% valid for 15 months during the warranty period, then the balance 5% payment will be released after observing the formalities stipulated.

- (ii) For supply of software based VC, if the Successful Bidder produces an irrevocable Bank Guarantee for the balance 5% valid for 15 months during the support period, then the balance 5% payment will be released after observing the formalities stipulated.
- 5) If the Purchaser is not issuing a SNR (Site Not Ready) certificate, the Successful Bidder may give a letter to ELCOT stating that the Purchaser is not issuing a SNR. The 75% of total cost of the invoice will be made to the Successful Bidder after the receipt of funds from the Purchaser, on verifying the same with the end user department by ELCOT
- 6) 100% payment will be released by ELCOT on behalf of the Purchaser, after satisfactory completion of the enduser certificates for every quarter towards Manpower deployment at the respective sites.
- 7) The Successful Bidder hereby agrees to get the refund of incentive, duties and proportionate taxes from authorities concerned and pass it on to ELCOT/Purchaser(s) if the Government or any other appropriate agency reduces the duty or tax or give incentive of any type retrospectively after supplying the Ordered items failing which action will be taken to recover the balance amount from the Successful Bidder under the Revenue Recovery Act or any other relevant act.
- 8) Penalty amount(s) if any, will be adjusted in the payment due to the Successful Bidder.
- 9) All taxes and other levies imposed by Governments in India will be paid at actuals as applicable.
- (8) PENALTY CLAUSE:**
- (a) A penalty will be levied at the rate of 0.25% per day if the delivery is not completed in full within the stipulated period. The delivery period will effect from the date of receipt of confirmed consignee address. Besides such performance may entail black-listing of Successful Bidder. If the Successful Bidder fails to supply even after the lapse of one month after the stipulated date of delivery, then the orders/contracts are liable for cancellation and the EMD/Security Deposit will be forfeited in addition to ELCOT reserving the right to blacklist the Successful Bidder for a period of three years from participating in ELCOT's tenders.
- (b) In the event of non-fulfillment or non-observance of any of the conditions stipulated in the Contract, the Successful Bidder shall pay as penalty an

amount Equivalent to 10% of total value of contract or an amount Equal to the actual loss incurred by ELCOT (or) the Purchaser (s) whichever is higher subject to the condition that the loss amount would not exceed the value of the goods supplied.

- (c) Notwithstanding anything contained in the penalty clause, ELCOT reserves the right to blacklist the Successful Bidder from taking part in any of the procurement operations of ELCOT for a minimum period of three years from the date of blacklisting for failure to carryout supply in time or according to the quality and quantity prescribed or any such similar reasons. This penalty shall be over and above all other penalties.
- (9) The contract or any part share of interest in it is not to be transferred or assigned by the successful Bidder directly or indirectly to any person or persons whomsoever without the prior written consent of the Purchaser(s).
- (10) Neither the Purchaser(s)/ELCOT nor the Successful Bidder shall be liable to the other for any delay or failure in the performance of their respective obligations due to causes or contingencies beyond their reasonable control such as
- (i) Any act of God such as lighting, earthquake, landslide, etc or other events of natural disaster of rare severity.
 - (ii) Meteorites or objects falling from aircraft or aerial devices, travelling at high speeds.
 - (iii) Act of war (whether declared or undeclared), threat of war, invasion, armed conflict or act of foreign enemy.
- (11) The following documents shall be deemed to form and be read and construed as part of this Contract.
- a) Technical Specifications
 - b) Tender Terms and Conditions
 - c) Amendments issued by ELCOT for the Tender document
 - d) Corrigendum/Clarifications issued by ELCOT for the Tender Document
 - e) Detailed final offer of the Successful Bidder
 - f) Purchase Order(s) issued by ELCOT from time to time
 - g) Correspondence made by ELCOT to the Successful Bidder from time to time during the period of the contract.

Wherever the offer conditions furnished by the Successful Bidder are at variance with conditions of this contract or conditions stipulated in the purchase order, the latter shall prevail over the offer conditions furnished by the Successful Bidder.

(12) Unless otherwise provided in the agreement, any notice, request, consent or other communication given or required to be given hereunder shall be given by mailing the same by registered mail, postage prepaid, return receipt requested in the case of the Successful Bidder to the Purchaser(s) at their respective addresses and set forth above or with other addresses and to the attention of such other person or persons as may hereafter be designated by like notice hereunder and any such notice sent by post shall be deemed to have been served on the date when in the ordinary course of post, it would have been delivered at the address to which it was sent.

(13) Termination of Contract

13.1. Termination for default

- (a) ELCOT may without prejudice to any other remedy for breach of contract, by written notice of default with a notice period of 7 days, sent to the Successful bidder, terminate the contract in whole or part,
 - i) if the Successful Bidder fails to deliver any or all of the goods within the time period(s) specified in the Contract, or fails to supply the items as per the Delivery Schedule or within any extension thereof granted by ELCOT
(or)
 - ii) if the fails to perform any of the obligation(s) under the contract
(or)
 - iii) if the Successful Bidder, in the judgement of ELCOT, has engaged in fraudulent and corrupt practices in competing for or in executing the Contract.
- b) In the event of ELCOT terminating the Contract in whole or in part, ELCOT may procure, upon terms and in such manner as it deems appropriate, the goods and services similar to those and delivered and the Successful Bidder shall be liable to ELCOT for any additional costs for such similar goods. However, the Successful Bidder shall continue the performance of the contract to the extent not terminated.

13.2 **Termination for Insolvency**

ELCOT may at any time terminate the Contract by giving written notice with a notice period of 7 days to the Successful Bidder, if the Successful Bidder becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Successful Bidder, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to ELCOT.

13.3 **Termination for Convenience**

ELCOT may by written notice, with a notice period of 7 days sent to the Successful Bidder, terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for ELCOT's convenience, the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective. The Successful Bidder is entitled to any compensation whatsoever only for the work that was completed from the date of the order till the termination which conforms to the terms of the agreement. If the order is placed but there is no work carried out as per the Contract, or if the work carried out is not as per the Contract, the Successful Bidder would not be entitled to any compensation.

14) **Dispute and Jurisdiction:-**

"Any dispute or difference, whatsoever, arising between the parties to this contract arising out of or in relation to the terms of this contract shall be resolved by the parties mutually by acting in good faith towards fulfilling the contract and for this purpose the parties mutually agree to furnish or exchange all relevant documents, information and any other material within their special knowledge and thereby conclude their discussions between them / their representatives or officers within a period of time as may be mutually agreed to say the time of commencement of the move to resolve the dispute".

"In case the parties failed to resolve the disputes amicably within the time frame agreed and in the manner stated supra, the aggrieved party shall approach the Court in Chennai city alone to the exclusion of all other Courts to adjudicate the unresolved dispute".

In Witness whereof the parties hereto have signed on the day, month and year above written in the presence of

For and or behalf of
Successful Bidder

For and on behalf of
Electronics Corporation of
Tamil Nadu Limited

Witnesses:

1.

2.

Witnesses:

1.

2.

Annexure-2 Bank Guarantee Format

(To be executed in Rs.100/- Stamp Paper)

To

The Managing Director
Electronics Corporation of Tamil Nadu Limited
MHU Complex II Floor
692 Anna Salai, Nandanam
Chennai - 600035

Bank Guarantee No:

Amount of Guarantee:

Guarantee covers from:

Last date for lodgement of claim:

This Deed of Guarantee executed by (Bankers Name & Address) having our Head Office at(address) (hereinafter referred to as "the Bank") in favour of The Managing Director, Electronics Corporation of Tamil Nadu Limited, a wholly owned Government of Tamil Nadu undertaking, MHU Complex II Floor, 692 Anna Salai, Nandanam, Chennai - 600035 (hereinafter referred to as "the Beneficiary") for an amount not exceeding Rs._____/ - (Rupees _____ Only) as per the request of M/s. _____ having its office address at _____ (hereinafter referred to as "Service Provider") against Letter of Acceptance reference _____ dated ____/____/____ of M/s. Electronics Corporation of Tamil Nadu Limited. This guarantee is issued subject to the condition that the liability of the Bank under this guarantee is limited to a maximum Rs._____/ - (Rupees _____ Only) and the guarantee shall remain in full force upto ____ months from the date of Bank Guarantee and cannot be invoked otherwise by a written demand or claim by the beneficiary under the Guarantee served on the Bank before ____ months from the date of Bank Guarantee.

AND WHEREAS it has been stipulated by you in the said ORDER that the Successful Bidder shall furnish you with a Bank Guarantee by a Nationalised Bank for the sum specified therein as security for compliance with the Successful Bidder performance obligations for a period in accordance with the contract.

AND WHEREAS we have agreed to give the supplier a Guarantee.

THEREFORE, we (Bankers address)....., hereby affirm that we are Guarantors and responsible to you on behalf of the Successful Bidder up to a total of Rs._____/-(Rupees _____ Only) and we undertake to pay you, upon your first written demand declaring the Successful Bidder to be in default under the contract and without any demur, cavil or argument, any sum or sums within the limit of Rs._____/-(Rupees _____ Only) as aforesaid, without your needing to prove or show grounds or reasons for your demand or the sum specified therein. We will pay the guaranteed amount notwithstanding any objection or dispute whatsoever raised by the Service Provider.

This Guarantee is valid until __ months from the date of Bank Guarantee.

Notwithstanding, anything contained herein.

Our liability under this guarantee shall not be exceed Rs._____/-(Rupees _____ Only). This bank guarantee shall be valid up to __ months from the date of Bank Guarantee and we are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before _____

Notwithstanding anything contrary contained in any law for the time being in force or bank practice, this guarantee shall not be assignable or transferable by the beneficiary. Notice of invocation by any person such as assignee, transferee or agent of beneficiary shall not be entertained by the Bank. Any invocation of guarantee can be made only by the beneficiary directly.

In witness whereof the Bank, through its authorised Officer, has set its, hand and stamp on this at _____.

Witness:

(Signature)

(Name in Block Letters)

1.

2.

Annexure-3 Sample Submission Form

Date of submission: __/__/__

Vendor Name :

Vendor Address :

Tender No. :

Sample Submitted On :

Tender Product SI No. :

SI.No.	Item No. in the Tender	Item Description	Make	Model	SI. No of the Item

VENDOR

Bidding Company Name:

Signature of the Representative:

Name:

Designation:

Contact No.

ELCOTName & Designation of the Person
Receives the Sample:

Store I/C Name & Designation:

Signature:

Annexure-4 Manufacturer's Letter of Guarantee

To

The Managing Director,
Electronics Corporation of Tamil Nadu Ltd.,
MHU Complex, II Floor,
692, Anna Salai,
Nandanam, Chennai – 600 035.

Sir,

We hereby authorise M/sto submit a Bid, and
subsequently negotiate and sign the contract with the Purchaser/ELCOT against

Tender No: **ELCOT/Networks/OT/33458/PA System and software based VC /2021-22** for the (type the Description of goods) developed by us. We hereby extend our full warranty for the goods offered for supply by the above said M/s. _____ against this tender.

We also undertake to provide timely supplies as per terms of tender and as agreed mutually between ELCOT and M/s. _____ and also to provide a trouble free and continuous support either directly or through our authorised partners under our supervision during the Warranty Period. We will provide the necessary spares support in the event of replacement of any spare parts is necessitated while providing Warranty and Services and if the spares are not available then we will arrange for complete replacement of the item(s) with an equivalent / higher model.

We also undertake to submit the Factory Tested Samples and depute our Technical Person / Persons for speedy Sample Evaluation at ELCOT in the specified days. We also undertake that no refurbished components are used in the manufacture of the -----.

For this tender we authorise M/s. _____ (Complete address and full contact details of the partner) to be our sales and service partner. In the event of discontinuation of supply and service by our partner viz., M/s. _____ or any problem arises during provision of supply and services, the entire responsibility to provide trouble free and continuous supply and services to the enduser / purchaser rests with us and we undertake to provide supply and services directly or through our alternative sales / service partners. The supplied products will be available during warranty period.

In case of violation of any of the conditions above, We understand that We are liable to be blacklisted by ELCOT for a period of three years.

(Signature for and on behalf of Principal)

Note:

Manufacturer's Authorization is required as indicated in the Eligibility Criteria clause no.4.4.

- 1) Public Address System
- 2) Professional video camera
- 3) Software based VC

Annexure-5 Format for Clarifications / Amendments**FORMAT FOR QUERIES ON TENDER CONDITIONS AND TECHNICAL SPECIFICATIONS****FOR TECHNICAL SPECIFICATIONS:**

Sl. No.	Page No.	Product Code	Item Name	Existing Specification as per Tender Document	Technical Parameter as per Tender Document	Amendment requested	Reasons for requesting the amendment

FOR COMMERCIAL CONDITIONS:

Sl. No.	Page No.	Clause No.	Title of the Clause	Description of the Clauses as per Tender Document	Amendment requested	Reasons for requesting the amendment

Annexure – 6 – FORMAT FOR INTERNAL TEST REPORT & COMPLIANCE**Technical Specifications****All the specifications in technical compliance have to be adhered to.****Note: All specifications to be read as better / higher**

- 1) Conference Mic system-Control unit (Premium)
Part Code: CMS001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Number of Discussion Devices connected per Control Unit	40 Discussion Devices or higher	
2.	Maximum Number of Discussion Devices supported by control unit by adding expansion units	240 Discussion Devices or higher	

3.	Maximum number of active Discussion units support	4	
4.	Number of Conference Mic connection ports	2	
5.	Controls features	Volume control, Mode selector, No of active discussion units selector.	
6.	Frequency response	100 Hz - 14 kHz	
7.	Audio Input/Output level	+6 dBv or higher	
8.	Audio Input/Output ports	XLR or RCA	
9.	Recording Features	Should support either built in recording or external USB recording.	
10.	Playback features	Should support playback	
11.	Web Browser Control	Should Support Ethernet protocol, Should facilitate Control of the unit through Web Browser.	
12.	Headphone output	Should be available	
13.	Nominal input voltage	100 to 240 V	
14.	Operating temperature	+5°C to +40°C	

2) Conference Microphone systems Delegate unit/Chairman Unit (Premium)
Part Code:CMS002

Sl. No.	Description	Details	Compliance: Yes/No
1.	Delegate unit/Chairman Unit (Premium)	Should be suitable for Conference Mic System-Control unit (Premium)	
2.	Controls and Indicators	Microphone On, Off Light indicator	
3.	Microphone Polar pattern	Cardioid	
4.	Mounting	Tabletop	
5.	Headphone sockets	3.5 mm	
6.	Volume control	Built-in volume control for headphones	
7.	Microphone Length	long type (18 inches)	
8.	Power consumption	1.3 w or higher	

3) Conference Mic system-control unit (Standard)
Part Code:CMS003

Sl. No.	Description	Details	Compliance: Yes/No
1.	Number of Discussion Devices connected per Control Unit	24 Discussion Devices or higher	

2.	Maximum Number of Discussion Devices supported by control unit by adding expansion units	50 Discussion Devices or higher	
3.	Maximum number of active Discussion units support	4	
4.	Number of Conference Mic connection ports	2	
5.	Controls	Volume control	
6.	Frequency response	100 Hz - 14 kHz	
7.	Audio Input/Output level	0.65mV/4.70 kΩ or 100mV/470 kΩ or higher	
8.	Audio Input/Output ports	XLR or Phono 6.35 mm or RCA	
9.	Recording Features	Should support either built in recording or external USB recording.	
10.	Playback features	Should support playback	
11.	Headphone output	Should be available in the front panel	
12.	Nominal input voltage	220 to 240 V.	
13.	Operating temperature	+5°C to +40°C.	

4) Conference Microphone systems Chairman unit (Standard)
Part Code:CMS004

Sl. No.	Description	Details	Compliance :Yes/No
1.	Chairman unit	Should be Suitable for Conference Mic system-control unit (Standard)	
2.	Controls and Indicators	Microphone On/Off light indicator	
3.	Priority Switch	Should be available	
4.	Mounting	Tabletop	
5.	Headphone sockets	3.5 mm	
6.	Volume control	Built-in volume control for headphones	
7.	Microphone Length	long type (18 inches)	
8.	Power consumption	1.1 w or higher	

5) Conference Microphone systems Delegate unit (Standard)
Part Code:CMS005

Sl. No.	Description	Details	Compliance :Yes/No
1.	Delegate unit	Should be Suitable for Conference Mic system-control unit (Standard)	
2.	Controls and Indicators	Microphone On/Off light indicator	
3.	Automatically off function	Should support	

4.	Mounting	Tabletop	
5.	Headphone sockets	3.5 mm	
6.	Volume control	Built-in volume control for headphones	
7.	Microphone Length	long type (18 inches)	
8.	Power consumption	1.1 w or higher	

- 6) 10 meter extension cable for Premium conferencing Mic systems
Part Code:CAB001

Sl. No.	Description	Details	Compliance :Yes/No
1.	Connectors	10 m (32.8 ft) suitable extension cable for Premium conferencing Mic systems	

- 7) 5 meter extension cable for Premium conferencing Mic systems
Part Code:CAB002

Sl. No.	Description	Details	Compliance :Yes/No
1.	Connectors	5 m (16.40 ft) suitable extension cable for Premium conference Mic systems	

- 8) 10 meter Connection cable for conferencing Mic system Standard (Female to Female connector)
Part Code:CAB003

Sl. No.	Description	Details	Compliance :Yes/No
1.	Connectors	10 meter Connection cable for conferencing Mic systems Standard (Female to Female connector)	

- 9) 10 meter Connection cable for conferencing Mic systems Standard (Male to Female connector)
Part Code:CAB004)

Sl. No.	Description	Details	Compliance :Yes/No
1.	Connectors	10 meter Connection cable for conferencing Mic systems Standard (male to female connector)	

- 10) 2 core 1.0 sq.mm Speaker Cable with laying – per meter.
Part Code:CAB005

Sl. No.	Description	Details	Compliance :Yes/No
1.	Size	1.0 Sq.mm.	
2.	Core	2	
3.	Material	Copper	

11) 2 core 1.5 sq.mm Speaker Cable with laying -per meter.

Part Code:CAB006

Sl. No.	Description	Details	Compliance :Yes/No
1.	Size	1.5 Sq.mm.	
2.	Core	2	
3.	Material	Copper	

12) 1" PVC pipe with fixing & laying-per meter.

Part Code:CAB007

Sl. No.	Description	Details	Compliance :Yes/No
1.	Size	1"	
2.	Colour	White	
3.	Material	Plastic	

13) 2 core 14/36 shielded MIC cable with Laying-per meter.

Part Code:CAB008

Sl. No.	Description	Details	Compliance :Yes/No
1.	Number of cores	2 Core	

14) 3 core 1.5 sq.mm. power cable with laying and accessories - Per Meter.

Part Code:CAB009

Sl. No.	Description	Details	Compliance :Yes/No
1.	Size	1.5 Sq.mm	
2.	Core	3	

15) USB male to Female Active Extender 10 Mtrs.

Part Code:CAB010

Sl. No.	Description	Details	Compliance :Yes/No
1.	Connectors	1 x USB Type A male (Blue) 1 x USB Type A Female (Blue)	
2.	Cable length	10 m	
3.	USB Specification	USB 3.1 Gen1 / 2.0 High and Full speed	
4.	Data rate	Upto 5 Gbps	

16) VGA to HDMI Convertor.

Part Code:CAB011

Sl. No.	Description	Details	Compliance :Yes/No
1.	Input	VGA	

2.	Output	HDMI Output upto 720P or 1080P.	
3.	Power	DC 5V	
4.	Audio	RCA/3.5 mm Audio Input	

17)USB male to Female Active Extender 5 Meters.

Part Code:CAB012

Sl. No.	Description	Details	Compliance :Yes/No
1.	Connectors	1 x USB Type A male (Blue) 1 x USB Type A Female (Blue)	
2.	Cable length	5 m	
3.	USB Specification	USB 3.0 / 2.0 High and Full speed or Low Speed	
4.	Data rate	Upto 5 Gbps	

18)USB Male to Female active extender 15 meters.

Part Code:CAB013

Sl. No.	Description	Details	Compliance :Yes/No
1.	Connectors	1 x USB Type A male (Blue) 1 x USB Type A Female (Blue)	
2.	Cable length	15 m	
3.	USB Specification	USB 3.2 Gen1 / 2.0 High and Full speed	
4.	Data rate	Upto 5 Gbps	

19)Cable Cubby.

Part Code:CAB014

Sl. No.	Description	Details	Compliance :Yes/No
1.	Type of material	Aluminium alloy	
2.	Connectivity preferred	RJ-45, 3.5 mm Audio, HDMI, USB, 5 Amp Power sockets	

20)10 meters RCA to phono cable.

Part Code:CAB015

Sl. No.	Description	Details	Compliance :Yes/No
1.	Length	10 meters	
2.	Connector	Phono male & RCA male	

21)250 Watts Amplifier for Wireless Chairman/Delegate unit

Part Code:AMP001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Power Output	250 W or higher	

2.	Protection:	AC Fuse	
3.	Signal to Noise Ratio	60 dB or Higher	
4.	Frequency Response	50 -15000 Hz	
5.	Controls	Individual MIC/Channel controller, Bass, Treble.	
6.	Input	Minimum 2	
7.	Output	Preamplifier 200mV/600Ω, Line 1V/1kΩ	
8.	Speaker Output	4Ω, 8Ω, 70V & 100V	
9.	Power supply	AC: 220-240V 50/60Hz	
10.	Operating temperature	+5 °C to +40 °C (40 °F to 105 °F)	

22) Professional Power Amplifier, 2x450W @4Ohms, 2x650W @2Ohms.
Part Code:AMP002

Sl. No.	Description	Details	Compliance: Yes/No
1.	Power Output	2x450 W @ 4 Ohms, 2x650 W @ 2 Ohms Bridged Output 1300 Watts	
2.	Protection	Audio limiters, High temperature.	
3.	Signal to Noise Ratio	10 dB or Better	
4.	Frequency Response	10-40 kHz	
5.	Controls	2 Channel.	
6.	Input	2 Channels XLR	
7.	Output	2 Channels XLR	
8.	Speaker Output	2 Speakers connectors	
9.	Power supply	AC: 220-240V 50/60Hz	
10.	Operating temperature	+5 °C to +40 °C (40 °F to 105 °F)	

23) Dual 400W per channel power amplifier @4Ω or 70/100V lines/ Bridged mono out 860W @8Ω
Part Code:AMP003

Sl. No.	Description	Details	Compliance: Yes/No
1.	Power Output	400W per channel power amplifier @4Ω Bridged Output 1300 Watts.	
2.	Protection:	Audio limiters, High temperature, Turn on delay.	
3.	Signal to Noise Ratio	103 dB or Better	
4.	Frequency Response	65-40 kHz	
5.	Controls	2 Channel	
6.	Input	2 Channels XLR	
7.	Output	2 Channels XLR	
8.	Speaker Output	2 Speakers connectors	

9.	Crosstalk	<- 75 dB	
10.	Power supply	AC: 120/240 V 50/60 Hz	
11.	Operating temperature	+5 °C to +40 °C (40 °F to 105 °F)	

24)Mixer Amplifier 240 watts:
Part Code:AMP004

Sl. No.	Description	Details	Compliance: Yes/No
1.	Power Output	240 W	
2.	Protection:	Limiter circuit. Fuse	
3.	Distortion	<1% @ rated output power, 1 kHz	
4.	Frequency Response	80 Hz to 18 kHz	
5.	Controls	Bass, Treble.	
6.	Input	4 Mic/line	
7.	Speaker Output	100V/4 Ω	
8.	Power supply	AC: 220-240V 50/60Hz	
9.	Operating temperature	+5 °C to +40 °C (40 °F to 105 °F)	

25)PA mixer Amplifier 500 Watts with built-in digital player.
Part Code:AMP005

Sl. No.	Description	Details	Compliance: Yes/No
1.	Power Output	750W Max., 500W RMS at 10% THD	
2.	Protection:	Fuse 8 Amp	
3.	Signal to noise Ratio	<60 dB	
4.	Frequency Response	50 Hz to 15 kHz	
5.	Controls	Bass, Treble,	
6.	Input	7xMic	
7.	Output	200mV/600 Ω - Preamp 1V/1k Ω - line	
8.	Speaker Output	100V & 70v 4 Ω & 8Ω	
9.	Power supply	AC: 220-240V 50/60Hz	
10.	Operating temperature	+5 °C to +40 °C (40 °F to 105 °F)	

26)30 W Premium Sound Cabinet Loudspeaker
Part Code:SPK001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Power	30 W RMS	
2.	Power Taps	30/15/7.5/3.75 W	
3.	Impedance/ Voltage	8/163/333 ohm	
4.	Frequency Response	100 Hz to 19 kHz	
5.	SPL at 1kHz (1 W/1 m)	105/90 dB (SPL)	

27)2-Way 4Inches 30Watts Compact PA Wall Speakers.

Part Code:SPK002

Sl. No.	Description	Details	Compliance: Yes/No
1.	Power	30 W RMS	
2.	Power Taps	30w, 30/15/7.5 W	
3.	Impedance/ Voltage	8Ω, 100 V	
4.	Frequency Response	80-20,000 Hz	
5.	SPL at 1kHz (1 W/1 m)	86dB	

28)2-Way 6.5 Inches 60 Watts Compact PA wall Speakers:

Part Code:SPK003

Sl. No.	Description	Details	Compliance: Yes/No
1.	Power	60 W RMS	
2.	Power Taps	60 w, 60/30/15 W	
3.	Impedance/ Voltage	8Ω, 100V	
4.	Frequency Response	55-20,000 Hz	
5.	SPL at 1kHz (1 W/1 m)	88 dB	

29)200-watt 8" two-way Passive speaker system.

Part Code:SPK004

Sl. No.	Description	Details	Compliance: Yes/No
1.	Power	200 W Cont, 800W Peak	
2.	Speaker Size	LF Transducer 8 inches HF Transducer 1 inch	
3.	Impedance	Nominal 8 Ω, Minimum 6 Ω	
4.	Frequency Response	60-20000 Hz, Crossover Frequency:1.7 kHz	
5.	SPL at 1kHz (1 W/1 m)	123 dB	

30)Multimedia Speaker

Part Code:SPK005

Sl. No.	Description	Details	Compliance: Yes/No
1.	Output power	2 W	
2.	Impedance	8 ohms	
3.	Voltage	220 VAC	

31) USB speaker phone for conference Room upto 10 People
Part Code:SPK006

Sl. No.	Description	Details	Compliance: Yes/No
1.	Connections	USB powered	
2.	Speaker Bandwidth	190 Hz – 20 kHz	
3.	Microphone Bandwidth	50 Hz - 6kHz or higher	
4.	Max Output Level	85 dB SPL @ 1 meter	
5.	Control	Volume Up Volume Down Microphone Mute	
6.	Features	Full Duplex Distributed Echo Cancellation Noise Cancellation Automatic Level Control	

32) USB speaker phone for conference Room for upto 20 People
Part Code:SPK007

Sl. No.	Description	Details	Compliance: Yes/No
1.	Connections	USB powered	
2.	Speaker Bandwidth	190 Hz - 20 kHz:	
3.	Microphone Bandwidth	50 Hz - 6kHz or higher	
4.	Max Output Level	85 dB SPL @ 1 meter	
5.	Control	Volume Up, Volume Down Microphone Mute	
6.	Features	Full Duplex Distributed Echo Cancellation Noise Cancellation Automatic Level Control First-Mic Priority	

33) 2 way 6 inches 30 watts compact PA ceiling Speakers
Part Code:SPK008

Sl. No.	Description	Details	Compliance: Yes/No
1.	Power	30W	
2.	Speaker Size	6 Inches	
3.	Impedance	330/670/1.33 kΩ	
4.	Frequency Response	90 Hz-18 KHz	
5.	SPL at 1kHz (1 W/1 m)	93 dB	

34) 15" Single Powered Subwoofer, BLK (1300 watt).

Part Code:SUW001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Power	1300 W	
2.	Speaker Size	LF Transducer 15 inches	
3.	Impedance	Nominal 8Ω, Minimum 6 Ω	
4.	Frequency Response	45 Hz - 150 Hz	
5.	SPL	133 dB	
6.	Connectors	(2) XLR/TRS combo jacks and (2) XLR link outputs	
7.	Power Consumption:	100 – 240 V, 50 – 60 Hz, 1.8 A	

35) Dynamic super cardioid Handheld microphone with On/Off Switch.

Part Code:MIC001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Element Type	Dynamic	
2.	Polar Pattern	Super cardioid	
3.	Frequency Response	80 Hz to 16 kHz	
4.	Impedance	600 Ω	
5.	Mic type	Handheld	
6.	Sensitivity, Open Circuit Voltage, 1 kHz:	mV/Pa (-53 dBV)	
7.	Connectors	3-pin XLR	

36) 18 inches Gooseneck Multi-Pattern Condenser Desk Microphone

Part Code:MIC002

Sl. No.	Description	Details	Compliance: Yes/No
1.	Element type	Dual condenser, back-electret	
2.	Polar Pattern	Omnidirectional, Cardioid, Super cardioid & Hyper cardioid	
3.	Frequency Response	50 Hz-20 KHz	
4.	Impedance	200 Ω	
5.	Mic Type	Gooseneck	
6.	Sensitivity, Open Circuit Voltage, 1 kHz:	5.6 mV/Pascal	
7.	Connector & Height	XLR & 18 inches or higher	

37)UHF Handheld Wireless Microphone System.

Part Code:MIC003

Sl. No.	Description	Details	Compliance: Yes/No
1.	Microphone Type	Handheld	
2.	Audio Frequency Response	80 Hz-18 kHz +/-2 dB	
3.	Diversity	True Antenna	
4.	Dynamic Range	>95 dB	
5.	Number of Channels	32	
6.	Receiver Type	Synthesized PLL	

38)UHF Lapel Wireless Microphone System

Part Code:MIC004

Sl. No.	Description	Details	Compliance: Yes/No
1.	Microphone Type	Lapel Wireless Microphone	
2.	Audio Frequency Response	80 Hz-18 kHz +/-2 dB	
3.	Diversity	True Antenna	
4.	Dynamic Range	>95 dB	
5.	Standard Lavalier Microphone	Uni-Directional Condenser	
6.	Number of Channels	32	
7.	Receiver Type	Synthesized PLL	
8.	Power Requirement	Lapel Mic. with batteries Receiver: 12–16 V DC, 500 mA max	

39)Professional VHF Wireless Lapel + Headset PA Microphones:

Part Code:MIC005

Sl. No.	Description	Details	Compliance: Yes/No
1.	Microphone type	VHF Wireless Lapel + Headset	
2.	Frequency response	50 Hz-15 kHz	
3.	Receiver	Single Channel Non-Diversity	
4.	Polar Pattern	Cardioid	
5.	Output	XLR / ¼" Jack	
6.	Power Requirement	Lapel Mic 9 V AA or Better Receiver: 240 V AC / 50 Hz Adaptor	

40)Handheld Wireless Microphone System With 8 Selectable UHF Channels.
Part Code:MIC006

Sl. No.	Description	Details	Compliance: Yes/No
1.	Microphone type	Handheld Wireless Microphone	
2.	Receiver	Single Channel Diversity	
3.	Frequency response	50 Hz – 15 KHz	
4.	Polar Pattern	Cardioid	
5.	Output	Balanced XLR / Unbalanced ¼" Jack	
6.	Power Requirement	Hand Mic 2 x 1.5V AA Receiver: 240V AC / 50 Hz Adaptor	

41)Floor Mic stand (3-5 feet) - Silver Colour
Part Code:STD001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Type	Floor Stand	
2.	Height	920-1500 mm	
3.	Base Dia	230 mm	

42)Boom Mic stand (3-6 feet)-Black Colour.
Part Code:STD002

Sl. No.	Description	Details	Compliance: Yes/No
1.	Type	Boom Stand	
2.	Height	1000-1700 mm	
3.	Base Dia	650 mm	

43)Tripod Stand for 4k Professional Video Camera.
Part Code:STD003

Sl. No.	Description	Details	Compliance: Yes/No
1.	Tripod Stand	Suitable for 4K Camera	
2.	Tilt Angle	+90 deg./-80 deg.	
3.	Pan angle	360 deg.	

44)Audio-Visual 17U Rack with 3 Trays
Part Code:RAK001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Type	17U	
2.	No of Trays	3	

3.	Mounting type	Floor	
4.	Width x Depth	600x600	
5.	Power Strip	Horizontal Power Strip 5 Socket 6A or Higher	
6.	Wheel	2" Coaster Wheel 4 Nos.	

45)Audio-Visual 27U Rack with 4 Trays.

Part Code:RAK002

Sl. No.	Description	Details	Compliance: Yes/No
1.	Type	27U	
2.	No of Trays	4	
3.	Mounting type	Floor	
4.	Width x Depth	600x600	
5.	Power Strip	Horizontal Power Strip 5 Socket 6A or Higher	
6.	Wheel	2" Coaster Wheel 4 Nos.	

46)Audio-Visual 42U Rack with 6 Trays.

Part Code:RAK003

Sl. No.	Description	Details	Compliance: Yes/No
1.	Type	42U	
2.	No of trays	6	
3.	Mounting type	Floor	
4.	Width x Depth	600x600	
5.	Power Strip	Horizontal Power Strip 5 Socket 15A or Higher	
6.	Wheel	3" Coaster Wheel 4 Nos.	

47)8 channel Mixing console.

Part Code:MIX001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Total no Of Inputs	8 input channel frame sizes, each with two stereo inputs	
2.	Microphone Input	2.4 k Ω	
3.	Line Input	11 k Ω	
4.	Frequency Response	20 Hz to 20 kHz+/-0.5 dB	
5.	phantom power voltage	+48 V	
6.	No of Aux sends	2	
7.	EQ (Mono Input) HF	HF 12 kHz, \pm 15 dB, Mid 150 Hz - 3.5 kHz, \pm 15 dB, LF 60 Hz, \pm 15 dB.	

48) 12 channel Mixing console.

Part Code:MIX002

Sl. No.	Description	Details	Compliance: Yes/No
1.	Total Number Of Inputs	12 input channel frame sizes, each with two stereo inputs	
2.	Total Number Of Outputs	Main Left/Right 2 Monitor Left & Right 2	
3.	Microphone Input	2.4 kΩ	
4.	Line Input	11 kΩ	
5.	Frequency Response	20 Hz to 20 kHz+/-0.5 dB	
6.	Phantom power voltage	+48 V	
7.	No of Aux sends	2	
8.	EQ (Mono Input) HF	HF 12 kHz, ±15 dB, Mid 150 Hz - 3.5 kHz, ±15 dB, LF 60 Hz, ±15 dB.	

49) 8 Channel Digital Audio Console.

Part Code:MIX003

Sl. No.	Description	Details	Compliance: Yes/No
1.	No of Input	8 (Mic/Line)	
2.	Total Number Of Outputs	6 Main Left /Right 2 Aux 4	
3.	Display	7" (178 mm) diagonal color TT, capacitive touch sensing	
4.	Sampling Frequency	Selectable 44.1 kHz or 48 kHz	
5.	Internal Processing	32-bit floating point	
6.	Connectors	USB A	
7.	Stereo USB	Stereo USB / MP3 playback	
8.	Effects	4 simultaneous, professional effects	
9.	Phantom Power	48 V, all mic inputs, individually switchable	
10.	Power Requirement	42W, 100-240 VAC, 50-60 Hz	

50) 16 Channel Digital Audio Console.

Part Code:MIX004

Sl. No.	Description	Details	Compliance: Yes/No
1.	No of Input	Input Mixing Channels 32 mono + 2 stereo + 2 return Analog Input 16 mic/line + 2 stereo line	
2.	Total Number Of Outputs	Analog Output 16	
3.	Display	7 inch Touch Panel	

4.	Sampling Frequency	48 kHz	
5.	Fader	100 mm motorized, Resolution = 10-bit, +10 dB to –138 dB, –∞ dB all faders	
6.	Connectors	USB A/B	
7.	USB	Direct 2-track recording to USB storage devices, or serious multitrack recording to a DAW via USB.	
8.	Effects	8 Powerful Processing/ Effect Units,	
9.	Phantom Power	+48 V DC (phantom power) can be supplied to INPUT XLR type connectors via each individual	
10.	Power Requirement	100–240 V 50/60 H	

51)1 KVA Automatic Voltage Stabilizer.

Part Code:STB001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Capacity	1 KVA	
2.	Wide Input Voltage Range	180-250 V	
3.	Stabilization Time	Less than 1 sec	
4.	Features	Short Circuit Protected. Low noise operation.	

52)2 KVA Automatic Voltage Stabilizer

Part Code:STB002

Sl. No.	Description	Details	Compliance: Yes/No
1.	Capacity	2 KVA	
2.	Input Voltage Range	180-250 V	
3.	Stabilization Time	Less than 1 sec	
4.	Features	Short Circuit Protected. Low noise operation.	

53)Connectors Required for Board Room Setup (upto 50-seater).

Part Code:CON001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Connectors Required for Board Room Setup (Upto50-seater)	XLR & Phono Connectors and accessories for Connecting Audio Input and Output Devices	

54) Full HD 4K Professional Video Camera.

Part Code: CAM001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Touch-panel LCD and EVF.	The 3.5-type monitor LCD built into the handle section can be pulled out and turned 270 degrees in the vertical direction for use in high-angle, low-angle or selfie shots	
2.	Image Sensor	1.0-type MOS	
3.	Zoom	optical 15x motorized zoom	
4.	Shutter Speed:	25 p mode: 1/25 sec., 1/50 sec., 1/60 sec., 1/100 sec, 50 i/50 p mode: 1/50 sec., 1/60 sec., 1/100 sec.,	
5.	Minimum Shooting Distance	Approx. 1.0 m from the front lens	
6.	Recording Format	MOV, MP4, AVCHD	
7.	Audio Sampling Frequency	48 kHz/16 bit 2 ch	
8.	Built-In Microphone	Stereo microphone	
9.	Audio Output	HDMI Headphone: 3.5 mm diameter stereo mini jack x 1	
10.	Audio Input	Built-in Microphone: Stereo microphone XLR Input: XLR (3-pin) x 2 (INPUT1, INPUT2) high impedance, LINE/MIC/MIC+48 V	
11.	DC IN 12V	DC 12 V (11.4 V to 12.6 V) EIAJ Type4	

55) USB capture device.

Part Code: CAM002

Sl. No.	Description	Details	Compliance: Yes/No
1.	Input	1 x HDMI	
2.	Supported Input Video Formats	1920 x 1080p 60/59.94/50/30	
3.	Supported Output Video Formats	1920 x 1080p 60/50/30/25/24	
4.	HDMI Embedded Audio	3.5 mm stereo in	
5.	Output	1x USB 3.0	
6.	Input Video Bandwidth	150 MHz	
7.	Output Video Bandwidth	Upto 350 Mbps (USB)	
8.	Capture Video Format	YUY2 (USB 3.0), MJPG (USB 2.0/3.0)	
9.	Firmware Update	Via USB Port	

56)720 P Web camera for Laptop/Desktop for Video Conferencing.

Part Code:CAM003

Sl. No.	Description	Details	Compliance: Yes/No
1.	RESOLUTION	720 pixels or better	
2.	Field of view	60 degree or better	
3.	Fps	30	
4.	Compatibility	USB	
5.	Video Features	Auto light correction for clear image	
6.	Audio	Noise-reducing, single, omni-directional mic pickup up from up to three meters away	

57)HD PTZ Conference Camera with speakerphone.

Part Code:CAM004

Sl. No.	Description	Details	Compliance: Yes/No
1.	VIDEORESOLUTION	1080 p HD upto 30 fps	
2.	bandwidth	220 Hz-20 KHZ	
3.	Audio	Omni-directional mic pickup and echo cancellation	
4.	Mic pick up radius	6ft or better	
5.	Speaker	full duplex speakerphone	
6.	Microphone	noise-cancelling microphone	
7.	Field of View	78-degree field of view and 180-degree video pan	

58)USB-HD-PTZ camera with 12 x zoom.

Part Code:CAM005

Sl. No.	Description	Details	Compliance: Yes/No
1.	Zoom	12 X	
2.	Noise reduction	2D and 3D	
3.	Angle view	70 degree or better	
4.	Resolution	1080p @ 30 fps	
5.	USB	USB 3.0 @ 1080 p	
6.	USB compatibility	2.0 or better	
7.	White Balance	Auto, Indoor, Outdoor, One Push, Manual	
8.	Backlight Compensation:	Supported	
9.	H & V Flip	Supported.	
10.	Horizontal Rotation	Range +/-170 degree	

59) Additional Battery for 4K Professional Video Camera.

Part Code: BAT001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Output	7.2 V DC	
2.	Capacity	5800 mAh	
3.	Indicator	Battery	

60) 64 GB SDHC card for professional Video camera.

Part Code: MEM001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Capacity	64 GB	
2.	Speed	Upto 15 mb/s	
3.	Video performance rating	128 GB, 64 GB, 32 GB Class 10	

61) Bag for Professional Video Camera

Part Code: BAG001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Bag for Professional Video Camera	Suitable Waterproof Bag with reputed brand for Professional Video Camera	

62) 4000 ANSI Lumens WXGA Projector–Portable

Part Code: PRO001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Brightness	4000	
2.	Contrast	16000:1 or better	
3.	Pixels	786,432 (1,024 x 768) pixels	
4.	Resolution	1,024x768 pixels	
5.	Terminals	HDMI IN, D- Sub HD15 pin female x 1 (RGB), D- Sub HD15 pin female x 1 (RGB) (Output Switching)	
6.	LAN	RJ-45x1	
7.	Compatibility	USB Type A/B	
8.	Built-in speaker	10 W	
9.	Operating Temperature	0-40° C	
10.	Keystone Correction	+/- 30° (H/V) Auto or Manual	

63) Executive Ceiling Mount Kit + Exp 2/4feet.

Part Code:MNT001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Length	2/4 ft	
2.	Load Max	15 Kg	
3.	Material	Aluminum	

64) Motorised Projector Screen 100 inch with 16:10 format.

Part Code:SCR001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Size	100 inch	
2.	Viewing Area	2150 x 1350 or better	
3.	Format	16:10	
4.	IR Features	External IR+RF, RS 232, wire trigger, RF Controller motorized	

65) 55" Smart TV.

Part Code:TVN001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Display Size	55 (inches)	
2.	Native Resolution	UHD (4K)-3840 X 2160 pixel or Higher	
3.	Brightness	350–nits or higher	
4.	Ports	Min HDMI X 2 Min USB X1 Audio Out x 1 Ethernet 10/100Mbps (RJ45) or higher	
5.	In-built Speakers	Built in-speaker 10W rms x 2 or higher	
6.	Additional Features	Built in WiFi, Screen Mirroring, Built in Web Browser	
7.	Accessories	1)Wall Mount Bracket 2)Power Cable 3)Remote control 4)Manual	
8.	Power Supply	100–240 v, 50 Hz	
9.	Certifications	BIS	

66)75" Smart TV
Part Code:TVN002

Sl. No.	Description	Details	Compliance : Yes/No
1.	Display Size	75 (inches)	
2.	Native Resolution	UHD(4K) - 3840 X 2160 pixel or Higher	
3.	Brightness	350–nits or higher	
4.	Ports	Min HDMI X 2 Min USBX1 Audio Out x 1 Ethernet 10/100 Mbps (RJ45) or higher	
5.	In-built Speakers	Built in-speaker 10W x 2 or higher	
6.	Additional Features	Built in WiFi ,Screen Mirroring, Built in Web Browser	
7.	Accessories	1)Wall Mount Bracket 2)Power Cable 3)Remote control 4)Manual	
8.	Power Supply	100–240 v, 50 HZ	
9.	Certifications	BIS	

67)98" 4k UHD LED Display.
Part Code:DIS001

Sl. No.	Description	Details	Compliance : Yes/No
1.	Panel Technology	LED/IPS	
2.	Display ratio	Aspect ratio of 16:9.	
3.	Native Resolution	UHD (4K)- 3840X2160 pixel or Higher	
4.	Brightness	350 nits or higher	
5.	Operation hours	24/7	
6.	Viewing angle (HxV)	178x178	
7.	Surface Treatment (Haze)	Haze 1%	
8.	Response Time	8 ms	
9.	CONNECTIVITY Input	HDMI (2), DP/DVI-D, Audio, USB (2)	
10.	Operation Temperature Range	0°C to 40°C	
11.	POWER CONSUMPTION	315 W / 415 W	
12.	Additional Ports	Audio Out x 1 Ethernet 10/100Mbps (RJ45) or higher, RS 232 C	
13.	Accessories	1)Power Cable 2)Remote control 3)User Manual	

14.	Operating temperature	0°C to 40°C or higher	
15.	Power Supply	100–240v, 50 Hz	
16.	Certifications	IEC, FCC	

68)65-inch Interactive Display.
Part Code:DIS002

Sl. No.	Description	Details	Compliance: Yes/No
1.	Display Size	65 inches	
2.	Brightness	250 nits or higher	
3.	Panel Technology	LED/IPS	
4.	Viewing angle	178:178	
5.	Resolution	3,840 x 2,160 or better	
6.	Built in Speaker	(10 W+10 W) or higher	
7.	Input/Output connectivity	Min HDMI 2.0 X 2, Min USB 2.0 x 1, USB 3.0x1 Ethernet 10/100 Mbps (RJ45), or higher RS232 C, in built Wi-Fi, Bluetooth, Audio Out X 1, Touch Out 1	
8.	Max Simultaneous Touch	Mini 10 touch Points support	
9.	Touch pen Support	Should Support.	
10.	Operating System Support	Windows 7/8/10/Windows XP/Linux/Mac/Android (Windows XP/Linux/Mac Support)	
11.	Wall mount	Wall Mount should be supplied at the time of installation	
12.	Processor	Dual core or Higher	
13.	RAM	2.5 GB or Higher	
14.	Storage	8 GB or Higher	
15.	Operating temperature	0°C~40°C or higher	

69)75inch Interactive Display
Part Code: DIS003

Sl. No.	Description	Details	Compliance : Yes/No
1.	Display Size	75 inches	
2.	Brightness	250 nits or higher	
3.	Panel Technology	LED/IPS	
4.	Viewing angle	178:178	
5.	Resolution	3,840 x 2,160 or better	
6.	Built in Speaker	(10 W+10 W) or higher	
7.	Input/Output connectivity	Min HDMI 2.0 X 2, Min USB 2.0 x 1, USB 3.0 x 1	

		Ethernet 10/100Mbps (RJ45), or higher RS232C, inbuilt Wi-Fi, Bluetooth, Audio Out X 1, TouchOut 1	
8.	Max Simultaneous Touch	Mini 10 touch Points support	
9.	Touch pen Support	Should Support.	
10.	Operating System Support	Windows 7/8/10/Windows XP/Linux/Mac/Android (Windows XP/Linux/Mac Support)	
11.	Wall mount	Wall Mount should be supplied at the time of installation	
12.	Processor	Dual core or Higher	
13.	RAM	2.5 GB or Higher	
14.	Storage	8 GB or Higher	
15.	Operating temperature	0°C~40°C or higher	

70) Console table for placing the digital audio console.
Part Code:ACC001

Sl. No.	Description	Details	Compliance : Yes/No
1.	Console Table	For placing the digital audio console	
2.	Type	Wood/Plywood	

71) Talk Back microphone.
Part Code:ACC002

Sl. No.	Description	Details	Compliance : Yes/No
1.	Mic system	Talk-Back Microphone	
2.	Connector	XLR	

72) Monitor Station Talk-Back system.
Part Code:ACC003

Sl. No.	Description	Details	Compliance : Yes/No
1.	Communication	Upto 4 headphones	
2.	Mute control	MIC MUTE selection on pressing	
3.	Connector	3pin XLR Male Connector	
4.	Mic Input	Gain range between 74 dB and 53 dB	

73) Professional Studio Condenser Microphone & Pop Filter
Part Code:FIL001

Sl. No.	Description	Details	Compliance : Yes/No
1.	Frequency range	20 to 20,000 Hz	

2.	Impedance	≤200 ohms	
3.	Recommended load impedance	≥2200 ohms	
4.	Polar patterns	nine, selectable	
5.	Dynamic range:	134 dB min.	
6.	Powering & Current consumption	48 V phantom power & approx. 4.5 mA	
7.	Connector:	3-pin XLR	
8.	Pre-attenuation pads:	-6 dB, 112 dB, -18 dB (selectable)	

74)Core-i3 Mini CPU
Part Code:COM001

Sl. No.	Description	Details	Compliance : Yes/No
1.	Processor	Intel Core i3 8th Gen or higher	
2.	Memory	4GB DDR4 SDRAM @2666 MHz or Higher Expandable upto 16GB with at least 1 free slot	
3.	Motherboard	1*M.2 Slots, SATA Slots, Integrated Graphics Controller, & Min 3 USB Ports with at least two with 3.0, VGA/Display port/HDMI, RJ45, Audio in /out	
4.	Hard disk drive	Min 500 GB SATA, 5400 RPM or higher	
5.	Network interface	Integrated Ethernet 10/100/1000 Mbps Wi-Fi 802.11 b/g/n/ac, Bluetooth 4.0 or higher	
6.	Certification	BIS, Hazardous- RoHS, Energy efficient- Energy star, Safety-CE/UL	
7.	OS Compliance	Windows & Linux by OEM	
8.	Pre-Installed Operating system	Windows 10 Home	

75)Core-i5 Mini CPU
Part Code:COM002

Sl. No.	Description	Details	Compliance : Yes/No
1.	Processor	Intel Core i5-8th Generation or higher (2.0GHz base frequency, 12 MB cache, 6 cores) or above	
2.	Memory	8 GB DDR4 SDRAM @ 2666 MHz or higher Expandable upto 16 GB with at least 1 free slot	
3.	Motherboard	1*M.2 Slots, SATA Slots, Integrated Graphics Controller, & Min 4 USB Ports with at least two with 3.0, VGA/Display port/HDMI , RJ45, Audio in /out	
4.	Hard disk drive	500GB SSD or higher	
5.	Network interface	Integrated Ethernet 10/100/1000 Mbps Wi-Fi 802.11b/g/n/ac, Bluetooth 5.0	
6.	Certification	BIS, Hazardous-RoHS, Energy efficient-Energy star, Safety-CE/UL	

7.	OS Compliance	Windows & Linux by OEM	
8.	Operating System preloaded	Windows 10 Pro	

76)Wireless Keyboard with Mouse.
Part Code:MOS001

Sl. No.	Description	Details	Compliance : Yes/No
1.	Wireless system	Advanced 2.4 GHz wireless connectivity	
2.	Battery	2-AA	
3.	Compatibility	Windows OS	

77)Quad Core Server for Live Streaming.
Part Code:QSR001

Sl. No.	Description	Details	Compliance : Yes/No
1.	Processor	1x Intel Xeon E - 21243.3 GHz, 4 Core Processor	
2.	Form Factor	1U	
3.	RAM Memory	16 GB 2666 MT/s DDR4 ECCU DIMM	
4.	Hard disk Storage	3.5" Chassis with upto 4 Hot Plug Hard Drives, 1 x 600 GB 10 K RPMSAS 12 Gbps Hot-plug Hard Drive	
5.	Operating systems	Windows Server 2019 Standard, 16 CORE, Digitally Fulfilled Recovery Image, Multi Language	
6.	I/O & Ports	Networking Options: 2x1 Gb ELOM Network Interface Controller (NIC) ports Front ports: 1x USB 2.0, 1 x IDRAC micro-USB 2.0 management port Rear ports: 2 x USB 3.0, VGA, serial connector	
7.	DVD Drive	DVD+/-RW, SATA, Internal for Hot Plug Chassis	
8.	Power Supply unit	Single Hot Plug Power Supply 350 W	

78)Pedestal Trolley for Multipurpose upto single 65" to 75" Display.
Part Code:TRY001

Sl. No.	Description	Details	Compliance : Yes/No
1.	Pedestal Trolley	suitable for 65" to 75" display	
2.	Compatible Devices	Display	

79) Pedestal Trolley for Multi purpose upto single 98" Display.

Part Code:TRY002

Sl. No.	Description	Details	Compliance : Yes/No
1.	Requirement	Suitable upto 98" display	

80) Feedback Suppressor.

Part Code:FBS001

Sl. No.	Description	Details	Compliance : Yes/No
1.	Audio Inputs Type	RF-Filtered, balanced / Unbalanced	
2.	Audio output type	servo Balanced / unbalanced	
3.	Bandwidth	20 Hz to 20 KHz	
4.	Cross Talk	<-76 db	
5.	Connector	XLR or ¼" TRS	
6.	Impedance	60 K ohms Balanced, 30 K ohms Unbalanced	
7.	THD	0.0075%	

81) 50x50 mm PVC cable duct supply & fixing for running audio cables.

Part Code:FBS002

Sl. No.	Description	Details	Compliance : Yes/No
1.	Cable size	50x50 mm	
2.	Requirement	To supply and fix the cables	

82) HDMI De-Embedder

Part Code:DEM001

Sl. No.	Description	Details	Compliance : Yes/No
1.	Input signal distance	15 meters	
2.	Compatibility	HDCP	
3.	Resolution	1080 p	
4.	Features supported	Dolby True HD and DTS HD Master Audio	
5.	Video Input/output Impedance	HDMI Type A Female (Black), 100 Ω	
6.	Audio Output	1 x HDMI; 2 x RCA	
7.	Operating Temperature	0° to 50° C	
8.	Power Consumption	5.3 V DC, 0.8 W or better	

83) Wall mount kit for 75-inch display.

Part Code: WMK001

Sl. No.	Description	Details	Compliance : Yes/No
1.	Requirement	Suitable for 75-inch display	

84) 1.5 Ton Split Air conditioner.

Part Code: SAC001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Capacity	1.5 ton	
2.	Type	Split	
3.	Star Rating	3 star	
4.	Condenser	100% Copper	
5.	Remote control	Simple LCD with Backlit	
6.	Compressor Type	Rotary	
7.	Additional Stabilizer	5 KVA Double Booster	

85) 2.0 Ton Split Air conditioner.

Part Code: SAC002

Sl. No.	Description	Details	Compliance: Yes/No
1.	Capacity	2.0 ton	
2.	Condenser	100% Copper	
3.	Type	Split	
4.	Rating	3 star or better	
5.	Power requirements	230 volts, 50 hertz	
6.	Compressor Type	Rotary	
7.	Features	Self-Cleaning Technology, remote control	
8.	Additional Stabilizer	5 KVA Double Booster	

86) Call Center with 10 Agents & Server Software Solution working on Linux OS.

Part Code: ECC001

Sl. No.	Description	Details	Compliance: Yes/No
1.	No of Agents	10 agents with Call Centre Server software and Agent software	
2.	Support	Inbound, Out bound and Blended call handling. voice broadcast and predictive dialing. Web-based agent and administrative interfaces	

3.	Features	Ability to get Last 10 Transactions of Customers Including comments history Should supports Call recording and retrieving and Ability for Integrating SMS/Email facility	
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87)PRI gate way for termination & configuration of PRI ISDN Line
Part Code:EPR001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Physical Interface	ISDN Interface, WAN and LAN, RJ-45 RS232	
2.	Signal	ISDNE1/T1, ITU-TI.431	
3.	Voice & Fax	G.711A/U Adaptive (Dynamic) Jitter Buffer Call Progress Tone Generation	
4.	DTMF Mode	Signal/RFC2833/In band	
5.	Protocol	SIP, RTP/RTCP-RFC2198, IP, TCP, UDP, TFTP, FTP, RTP, ICMP Ping, Http, DNS	

88)Headset with Microphone.
Part Code:EHS001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Frequency Response	Headset:100 Hz–10,000 Hz	
2.	Microphone	200 Hz–6,000 Hz	
3.	Sensitivity	-42 dBV/Pa+/-3 dB	
4.	Features	Plug-and-play USB, Digital sound; rotating, noise-cancelling	

89)Streaming Encoder/ Video Mixer/ Recorder.
Part Code:ENC001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Video Standard	HD	
2.	Video Format	1080i 50/59.94/60 Hz/720p 50/59.94/ 60 Hz	
3.	Video Input	4 x HD-SDI, 2 x HDMI	
4.	Built-in Monitor Display	17.3"	

90)65" Smart TV.
Part Code:TVN003

Sl. No.	Description	Details	Compliance: Yes/No
1.	Display	65 Inch	
2.	Resolution	3, 840X2, 160(UHD)	

3.	Brightness	400 cd/m2 or better	
4.	Features	Web Browser, Pre-loaded App, Wi-Fi, Screen Share, Bluetooth Audio Playback, Mobile Connection Overlay	
5.	Audio output	10 W+10 W	
6.	Signage Feature	Crestron Connected (Network Based Control), Digital Power Management, Time Scheduler, Real Time Clock, NTP sync timer.	
7.	I/O Interface	HDMI In 2, USB (2.0) RF In, Digital Audio Out (Optical), RS-232C (D-Sub 9pin) (Control & Service), RJ45 (Usage Purpose) (Ethernet), External Speaker Out.	
8.	Voltage, Hz	100 ~ 240 V, 50/60 Hz	
9.	Power Consumption	181.6W	

91) Cloud meeting SaaS based VC License with one year subscription for one Room Endpoint integration.
Part Code: CVC001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Endpoint integration	Connect your H.323/SIP systems with desktop, tablet, mobile devices, Zoom Rooms, and other H.323/SIP endpoints	
2.	Participants	100 interactive video participants	
3.	Endpoint Video Protocol Support	H.264, H.239, H.235, and G.722 protocols	
4.	Encryption	Completely secure with end-to-end encryption	
5.	Live streaming support	Use Facebook Live or YouTube integrations for an unlimited audience	
6.	Interoperability	Works with many legacy endpoints including Polycom, Cisco, Lifesize and others	
7.	Centralized management	Get the overview status and management of deployed conference rooms in a single admin console.	
8.	Number of Conference Room Connector License	One License from day one	

92) Cloud meeting SaaS based VC License with one year subscription for Two Room Endpoint integration.
Part Code: CVC002

Sl. No.	Description	Details	Compliance: Yes/No
1.	Endpoint integration	Connect your H.323/SIP systems with desktop, tablet, mobile devices, Zoom	

		Rooms, and other H.323/SIP endpoints	
2.	Participants	100 interactive video participants	
3.	Endpoint Video Protocol Support	H.264, H.239, H.235, and G.722 protocols	
4.	Encryption	Completely secure with end-to-end encryption	
5.	Live streaming support	Use Facebook Live or YouTube integrations for an unlimited audience	
6.	Interoperability	Works with many legacy endpoints including Polycom, Cisco, Lifesize and others	
7.	Centralized management	Get the overview status and management of deployed conference rooms in a single admin console.	
8.	Number of Conference Room Connector License	Two License from day one	

93)Cloud meeting SaaS based Video conferencing Licence for one year subscription-Type1.
Part Code:CVC003

Sl. No.	Description	Details	Compliance: Yes/No
1.	Participants	Upto 500 participants in each meeting	
2.	Storage	1GB of cloud storage.	
3.	Meeting & Video conferencing	Webex Assistant, MP4 recordings, Add an alternate host, Fullscreen video with 4 layout options, Screen sharing (desktop, Application & File sharing options), Mobile screen sharing, Support for iPhone, iPad, Android, and wearable devices, Chat, notes, raise hand and polling, Schedule meetings from your Google calendar, Microsoft Outlook Calendar, or Microsoft Office Suite 365, Stream meetings from Facebook Live, Save recordings to your computer, Interactive whiteboarding, Breakout sessions, Virtual backgrounds.	
4.	Messaging & collaboration features	messaging, file sharing, white boarding, video meetings, calling.	
5.	Audio features	Toll-free dial in (connect to audio, by calling in from your phone, using toll free Number), Toll dial-in (connect to audio, by calling in from your phone) & HD VoIP.	
6.	Security features	FedRamp authorized, Encrypted cloud recordings, HIPAA/BAA compliance, End-to-end encryption, TLS 1.2 support, Enforce meeting password with joining & Lock personal meeting rooms	

94) Cloud meeting SaaS based VC Licence for one year subscription for small offices-Type2
Part Code:CVC004

Sl. No.	Description	Details	Compliance: Yes/No
1.	Participants	Upto 500 participants in each meeting	
2.	Storage	Add on 100 GB of Network-based recording storage.	
3.	Meeting & Video conferencing	Webex Assistant, MP4 recordings, Add an alternate host, Fullscreen video with 4 layout options, Screen sharing (desktop, Application & File sharing options), Mobile screen sharing, Support for iPhone, iPad, Android, and wearable devices, Chat, notes, raise hand and polling, Schedule meetings from your Google calendar, Microsoft Outlook Calendar, or Microsoft Office Suite 365, Stream meetings from Facebook Live, Save recordings to your computer, Interactive whiteboarding, Breakout sessions, Virtual backgrounds.	
4.	Messaging & collaboration features	messaging, file sharing, white boarding, video meetings, calling.	
5.	Audio features	Toll-free dial in (connect to audio, by calling in from your phone, using toll free Number), Toll dial-in (connect to audio, by calling in from your phone) & HD VoIP.	
6.	Security features	FedRamp authorized, Encrypted cloud recordings, HIPAA/BAA compliance, End-to-end encryption, TLS 1.2 support, Enforce meeting password with joining & Lock personal meeting rooms	

95) SaaS based VC Licence for One Year Subscription-Type3.
Part Code:CVC005

Sl. No.	Description	Details	Compliance: Yes/No
1.	Meetings and calling	Participant capacity-250 users, Screen sharing, Customized backgrounds	
2.	General features	Scheduled meetings Meeting recordings Chat and collaboration File attachments in chat Real-time collaboration in Office apps (Word, Excel, PowerPoint)	

3.	Security and compliance	Microsoft Teams data encryption at rest and in transit Enforced multi-factor authentication	
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96)FortiGate firewall FG 200Ewith one year Subscription.

Part Code:FIR001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Throughput	20/20/9 Gbps	
2.	Zero Trust Network	Access that identifies and secures users and devices in real-time, on and off of the network	
3.	Concurrent Sessions (TCP)	2 million	
4.	New sessions/ Second (TCP)	135,000	
5.	Power	100-240 V AC, 50-60 Hz	
6.	Certification	Firewall, IPsec, IPS, Antivirus, SSL-VPN; IPv6	

97)Civil work for installation of conference system.

Part Code:CIV001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Requirement	To carry out civil work towards cutting the floor and removing the existing tiles/granite and laying the cables and re-fixing the granite/tiles with the new one	
2.	Cable Dismantling	Existing Mic Cable to be removed from the conduit	
3.	PVC Pipe	PVC Pipe to be fixed	

98)Manpower charges per person per month to operate PA System and software -based VC system

Part Code:MAN001

Sl. No.	Description	Details	Compliance: Yes/No
1.	Requirements	Deployed manpower should operate public address system and software-based VC system	

Annexure-7 Technical Bid

A7.1 Check-list for Enclosures

Documents to be submitted		Fill (YES or NO)
1	Filled Tender Technical Bid Form and Price Bid Form	

Documents to be submitted		Fill (YES or NO)
2	Payment of portal charges and EMD amount	
3	Two Part Bid submission	
4	Letter of Authorisation for signing the Tender document	
5	Letter of Undertaking	
6	Bidder's covering letter in the Letter head signed and stamped by the Authorised Signatory	
7	Undertaking Letter in the Letter Head of the Bidder signed and stamped by the Authorised Signatory	
Eligibility Criteria		
1	Certificate of Incorporation / Registration issued by the relevant statutory authority should be submitted	
2	Copy of the work order obtained from the customer or agreement signed dated prior to 31/03/2018 with the customer for any IT related products should be submitted	
3	Copies of the Audited financial statements for three Consecutive Financial years should be submitted (2017-18, 2018-19 & 2019-20).	
4	Full copies of Work Order or signed Agreement and performance / order completion certificate from the customers for executing single order value.	
5	Manufacturing License/ Manufacturing authorization letter for Public Address Systems , video camera and software based VC system to be submitted	
6	Copy of the Rental Agreement for 3 or more years and latest telephone bills should be submitted.	
7	<u>Service Centre Facilities</u> In case of Manufacturer's service centre or franchise service centre, copies of the land-line telephone bills or Rent Agreement dated prior to 31/03/2017 should be submitted as a proof for availability of the service centres	
8	The URL of the Website Name and Copy of Home Page Print out should be submitted.	
9	Power of Attorney for submitting the bid	
10	Language of the supporting documents only in English	
11	The bidder had gone through the tender documents, reply to the pre bid queries & Corrigendum's.	
12	The bidder had gone through G.O.No.343 dated 18.09.2020 issued by Department of Finance(salaries) regarding restriction of public procurement of certain countries in this tender document	
13	valid ISO 9001:2008 Certificate issued in the name of OEM for Manufacturing Process/ISO 14001:2008 Certificate or higher	

Documents to be submitted		Fill (YES or NO)
	issued in the name of OEM for handling of hazardous items in the manufacturing process.	

Note: Please ensure all the relevant boxes are marked Yes/No against each column.

A7.2 Profile of the Bidder

1	Name of the Company / Firm	
	Year of Incorporation / Registration	
	Legal Status (Registered Company or Partnership or Proprietary ship Firm)	
2	Registered office	
	Telegraphic Address	
	Office Telephone Number	
	Fax Number	
3	Contact Person	
	Name	
	Personal Telephone Number	
	Email Address	
4	Local presence at Tamil Nadu	
	Telegraphic Address	
	Office Telephone Number	
	Fax Number	
5	Contact Person	
	Name	
	Personal Telephone Number	
	Email Address	
6	Registration Details	
	Permanent Account Number	
	GST Registration Number	
1	Banker's Name, Address and Account number	
2	ESI Registration No. and ESI Remittance details for last 2 years	
3	PF Registration No. and PF Remittance details for last 2 years.	

Important Note:

Bidders should ensure that they have submitted all the required proof of documents as specified in the Tender document without fail. Bids received without the supporting documents to prove their eligibility are liable for rejection.

A7.3 Document Details in support of Eligibility Criteria

Sl. No.	Description	Please give details along with proof
1. a.	Certificate of Incorporation / Registration issued by the relevant statutory authority should be submitted	To be uploaded online
b.	Copy of the work order obtained from the customer or agreement signed dated prior to 31/03/2018 with the customer for any IT related products should be submitted.	To be uploaded online
2	Annual Turnover (INR)	
	2019-20	To be uploaded online
	2018-19	To be uploaded online
	2017-18	To be uploaded online
3	Details of single Purchase order for Supply and Commissioning of Public Address system /Video camera/smart TV/software based VC for the value of Rs.20 Lakhs or Multiple orders for the value of Rs.40 Lakhs or more executed during any one of the financial years 2017-18, 2018-19 & 2019-20 to any University / Government / Public Sector Undertakings departments.	To be uploaded online
4.a.	Manufacturing License for Public Address Systems, Professional video cameras and software based VC system to be submitted	To be uploaded online
b.	For authorised distributors or dealers, the dealer Certificate or manufacturer's authorisation letter should be submitted for Public Address Systems, video camera and software based VC system to be submitted	To be uploaded online
5	Copy of the Rental Agreement for 3 or more years and latest telephone bills should be submitted.	To be uploaded online
6	<u>Service Centre Facilities</u> Land-line telephone bills or Rent Agreement or agreement signed with the franchise dated prior to 31/03/2017 should be submitted as a proof for the availability of the service centre.	To be uploaded online
7	Details of the URL of the Website Name and Copy of Home Page Print out shall be submitted.	To be uploaded online
8	Copies of valid ISO 9001:2008/ISO 14001:2008 Certificates or Higher shall be submitted as proofs.	To be uploaded online

A7.4 Hardware Compliance

The Bidders shall submit the details of the make and model of each item offered against the tender requirement and technical compliance report as per

Sl. No (A)	Part Code (B)	Description (C)	Make	Model
1	CMS001	Conference Mic system - Control unit (Premium)		
2	CMS002	Conference Microphone systems Delegate unit / Chairman Unit (Premium)		
3	CMS003	Conference Mic system- control unit (Standard)		
4	CMS004	Conference Microphone systems Chairman unit		
5	CMS005	Conference Microphone systems Delegate unit		
6	CAB001	10 meter extension cable for Premium conferencing Mic systems		
7	CAB002	5 meter extension cable for Premium Conferencing Mic systems		
8	CAB003	10 meter Connection cable for conferencing Mic systems Standard (female to Female connector)		
9	CAB004	10 meter extension cable for conferencing Mic systems (Standard) (Male to female connector)		
10	CAB005	2 core 1.0 sq mm Speaker Cable with laying - Per Meter		
11	CAB006	2 core 1.5 sq mm Speaker Cable with laying - Per Meter		
12	CAB007	1" PVC pipe with fixing & laying - Per Meter		
13	CAB008	2 core 14/36 shielded Mic Cable with Laying - per meter		
14	CAB009	3 core 1.5 sqmm Power Cable with laying and accessories - Per Meter		
15	CAB010	USB Male to Female Active Extender 10 Mtrs		
16	CAB011	VGA to HDMI Convertor		
17	CAB012	USB Male to Female Active Extender 5 Meters		
18	CAB013	USB Male to Female Active Extender 15 Meters		
19	CAB014	Cable cubby		
20	CAB015	10 meters RCA to phono cable		
21	AMP001	250 Watts Amplifier for Wireless Chairman / Delegate unit		

22	AMP002	Professional Power Amplifier, 2 x 450 W @ 4 Ohms, 2 x 650W @ 2 Ohms.		
23	AMP003	Dual 400 W per channel power amplifier @ 4ohms or 70/100V lines/Bridged mono out 860W @ 8 ohms		
24	AMP004	Mixer Amplifier 240 watts		
25	AMP005	PA Mixer Amplifier 500 Watts with Built-in Digital Player		
26	SPK001	30 W Premium Sound Cabinet Loudspeaker		
27	SPK002	2-Way 4 Inches 30 Watts Compact PA Wall Speakers		
28	SPK003	2-Way 6.5 Inches 60 Watts Compact PA Wall Speakers		
29	SPK004	200 watts 8" two-way Passive speaker system		
30	SPK005	Multimedia Speaker		
31	SPK006	USB speaker phone for conference Room upto 10 People		
32	SPK007	USB speaker phone for conference Room for up to 20 People		
33	SPK008	2 way 6 inches 30 watts compact PA ceiling speakers		
34	SUW001	15" Single Powered Sub-Woofer, BLK (1300 W)		
35	MIC001	Dynamic supercardioid Handheld microphone with On/ Off Switch		
36	MIC002	18 inches Gooseneck Multi-Pattern Condenser Desk Microphone		
37	MIC003	UHF Handheld Wireless Microphone System		
38	MIC004	UHF Lapel Wireless Microphone System		
39	MIC005	Professional UHF Wireless Lapel + Headset PA Microphones		
40	MIC006	Handheld Wireless Microphone System with 8 Selectable UHF Channels.		
41	STD001	Floor Mic stand (3-5 feet)- Silver Color		

42	STD002	Boom Mic stand (3 - 6 feet) - Black Color		
43	STD003	Tripod Stand for 4k Professional Video Camera		
44	RAK001	Audio -Visual 17 U Rack with 3 Trays		
45	RAK002	Audio -Visual 27 U Rack with 4 Trays		
46	RAK003	Audio -Visual 42 U Rack with 6 Trays		
47	MIX001	8 Channel Mixing Console		
48	MIX002	12 Channel Mixing Console		
49	MIX003	8 channel Digital Audio Console		
50	MIX004	16 Channel Digital Audio Console		
51	STB001	1KVA Automatic Voltage Stabilizer		
52	STB002	2KVA Automatic Voltage Stabilizer		
53	CON001	Connectors Required for Board Room Setup (upto 50 seater)		
54	CAM001	Full HD - 4 K Professional Video Camera		
55	CAM002	USB capture device		
56	CAM003	720P Webcamera for Laptop / Desktop for Video Conferencing		
57	CAM004	HD PTZ Conference Camera with speakerphone		
58	CAM005	USB - HD - PTZ camera with 12x zoom		
59	BAT001	Additional Battery for 4K Professional Video Camera		
60	MEM001	64GB SDHC card for professional Video camera		
61	BAG001	Bag for Professional Video Camera		
62	PRO001	4000 ANSI Lumens WXGA Projector - Portable		
63	MNT001	Executive Ceiling Mount Kit + Exp MS Rod 2/4feet		
64	SCR001	Motorised Projector Screen 100 inch with 16:10 format		

65	TVN001	55" Smart TV		
66	TVN002	75" Smart TV		
67	DIS001	98" 4k UHD LED Display		
68	DIS002	65 inch Interactive Display		
69	DIS003	75 inch Interactive Display		
70	ACC001	Console table for placing the digital audio console		
71	ACC002	Talk Back micro phone		
72	ACC003	Monitor Station Talk-Back system		
73	FIL001	Professional Studio Condenser Microphone & Pop Filter		
74	COM001	Core-i3 Mini CPU		
75	COM002	Core-i5 Mini CPU		
76	MOS001	Wireless Keyboard with Mouse		
77	QSR001	Quad Core Server for Live Streaming		
78	TRY001	Pedestal Trolley for Multipurpose upto single 65" to 75" Display		
79	TRY002	Pedestal Trolley for Multipurpose upto single 98" Display		
80	FBS001	Feedback suppressor		
81	FBS002	50x50mm PVC cable duct supply & Fixing for running audio cables		
82	DEM001	hdmi de-embedder		
83	WMK001	wall mount kit for 75 inch display		
84	SAC001	1.5 Ton Split Air conditioner		
85	SAC002	2.0 Ton Split Air conditioner		
86	ECC001	Call Center with 10 Agents & Server Software Solution working on Linux OS		
87	EPR001	PRI gateway for termination & configuration of PRI ISDN Line		
88	EHS001	Headset with Microphone		
89	ENC001	Streaming Encoder/ Video Mixer/ Recorder		
90	TVN003	65" Smart TV		
91	CVC001	Cloud meeting SaaS based VC Licence with one year subscription for one Room Endpoint integration		

92	CVC002	Cloud meeting SaaS based VC Licence with one year subscription for Two Room Endpoint integration		
93	CVC003	Cloud meeting SaaS based Video conferencing Licence for one year subscription-Type 1		
94	CVC004	Cloud meeting SaaS based VC Licence for one year subscription for small offices-Type 2		
95	CVC005	SaaS based VC Licence for One Year Subscription-Type 3		
96	FIR001	Fortigate firewall FG 200E with one year subscription		
97	CIV001	Civil work for installation of conference system		
98	MAN001	Manpower charges per person per month to operate PA System and software based VC system		

A 7.5 Declaration

We agree that the offer shall remain open for acceptance for a minimum period as stipulated in the Tender from the date of opening of the tender and thereafter until it is withdrawn by us by notice in writing duly addressed to the authority of opening the tender and sent by registered post with acknowledgement due or otherwise delivered at the office of the authority. The EMD amount shall not bear any interest and shall be liable to be forfeited by ELCOT if we fail to abide by the stipulations to keep the offer open for a period mentioned above or fail to sign and complete the contract document as required by ELCOT and furnish the Security Deposit as specified in the terms and conditions of the contract. The EMD amount may be adjusted towards SD or refunded to us unless the same or any part thereof has been forfeited as aforesaid.

We agree to adhere with the schedule of implementation and deliver the items as specified in the tender.

We declare that the Price bid has been submitted without any conditions and strictly as per the Terms and Conditions of the tender document and we are aware that the Price bid is liable to be rejected if it contains any other conditions.

We declare that the information furnished in the tender is true to the best of our knowledge. If any false/fictitious information is found to have been furnished, we agree to the rejection of the bids and consequent actions as the tender.

**A 7.6- Instructions to the bidders one tendering through the site
tntenders.gov.in**

1. ELCOT is using the etendering system of Government of Tamil Nadu namely tntenders.gov.in which is developed and hosted by NIC. Bidders can go to the ELCOT tenders page directly by selecting the elcot-tntenders option from the home page of ELCOT site elcot.in
2. The bidders should enroll themselves on the website <https://tntenders.gov.in> using the option "Online Bidder Enrollment". This enrollment is free at this point of time.
3. Possession of a Valid Class III Digital Signature Certificate (DSC) in the form of smart card/e-token with signing and encryption keys, in the Company's name is a prerequisite for registration and participating in the bid submission activities through this web site.

4. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site <https://tntenders.gov.in> under the link “Information about DSC”.
5. The web site also has user manuals with detailed guidelines on enrollment and participation in the online bidding process. The user manuals can be downloaded for ready reference.
6. Bidders can also attend the training/familiarization programme on the e-tendering system conducted periodically by NIC.
7. The bidders will be able to see the status of the tenders for which they have submitted bids in different stages and would also be informed of the status by e-Mail. For the bidders who have specified the Product Category through “Product Category” option, information of all the tenders published, under the selected product category, will be sent by e-Mail.
8. Bidders should submit the bid well in advance before bid submission end date and time, instead of doing at the last minute, which may fail. In this case, the Tender Inviting Authority is not responsible for the non-submission of bids at the bidders end.
9. Bidder should contact the help desk for any clarifications on the bid submission at any point of time one day before the bid submission, so that bid submission goes through smoothly. Bidders should not assume and do the steps and then get into issues which cannot be solved.
10. Bidders should go through the tender documents and get ready the all relevant documents in pdf/xls/rar formats as indicated and then have to be uploaded against each. In the technical bid, bidders may attach an index page wherever necessary, in the beginning, which indicates the details of the files/documents that follow the index page against each technical bid content indicated. This will also help for easy reference later.
11. While scanning the bid documents to convert to pdf, bidders are asked to scan the page in 65 to 100 dpi mode, to get a readable page after scanning and also the size of the document will also be lesser. For pages in text, it is advised to use 65dpi mode and for pages with images, 100 dpi mode.
12. Bidders can get ready the technical bid and price bid in filled form in advance instead of doing at the last moment and once ready in all aspects, they may chose the freeze option to submit the bid finally and thereafter they will get a

bid acknowledgement receipt which is the final end indicating the successful submission of the bid submission process.

13. Bidders can do the resubmission of the bid any number of times, either technical bid or price bid or both till the end date and time of bid submission. The content of the last submitted bid alone will be opened at the time of tender opening.
14. Bidders can withdraw the submitted bid before the end of bid submission date and time with proper reasons and once it is withdrawn, bids cannot be submitted again for that tender.
15. For all tender processing activities, the server time indicated at the top, while doing bid submission/tender opening activities is the final. The Local system time will not be taken into account in this case.
16. Bidders may contact the help desk by mail etendersupport@elcot.in or by mobile 9566003517 to get any clarifications one bid submission process well in advance.

A7.7- Restrictions on Public Procurement Instructions to bidders to be complied

Bidders are requested to comply with the below instructions without fail

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

The Competent Authority for the purpose of registration under this tender shall be

a) The Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT). OR

b) The Registration Committee constituted by Government of Tamil Nadu consisting of the following members:-

1. Managing Director & Chief Executive Officer, Guidance (as Chairman)

2. Additional Chief Secretary to Government (Finance), or his representative

3. Additional Chief Secretary to Government (Information Technology) or his representative

4. Principal Secretary to Government (Public Works Department) or his representative

5. Industries Commissioner and Director of Industries and Commerce.

Definitions:

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

ii. Bidder from a country which shares a land border with India" for the purpose of this tender means

- a. An entity incorporated, established or registered in such a country; or
- b. A subsidiary of an entity incorporated, established or registered in such a country; or
- c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
- d. An entity whose beneficial owner is situated in such a country; or
- e. An Indian (or other) agent of such an entity; or
- f. A natural person who is a citizen of such a country; or
- g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

However, there are no restrictions in case of procurement of goods or services from the bidder from those Countries (even if sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development Projects.

iii. The "Beneficial owner "for the purpose of (ii) above will be as under:

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

Explanation –

- a. "Controlling ownership interest" means ownership of, or entitlement to, more than twenty-five percent of shares or capital or profits of the company;
- b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions, including by virtue of their shareholding or management rights or shareholders agreements or voting agreements.

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

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

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

(5) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

(6) An 'agent' for the purpose of this tender is a person employed to do any act for another, or to represent another in dealings with third person.

(7) The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority. The definition of a 'Contractor' from a Country which shares a land border with India' shall be as detailed in paragraph (ii) above.

Each Bidder shall have to submit the Undertaking.

Where applicable, the bidder shall have to submit the Certificate of Registration from the Competent Authority

Annexure 8- Price Bid

Category:1**All items should be quoted with warranty/support**

S. No (A)	Part Code (B)	Description (C)	Unit Price for without Taxes (in Rs) (D)	Applicable GST per unit (in %) (E)	GST value per unit (in Rs.) (F)	Total Unit Price with all Taxes and duties (Rs.) (G) = (D)+(F)	HSN Code
1	CMS001	Conference Mic system - Control unit (Premium)					
2	CMS002	Conference Microphone systems Delegate unit / Chairman Unit (Premium)					
3	CMS003	Conference Mic system-control unit (Standard)					
4	CMS004	Conference Microphone systems Chairman unit					
5	CMS005	Conference Microphone systems Delegate unit					
6	CAB001	10 meter extension cable for Premium conferencing Mic systems					
7	CAB002	5 meter extension cable for Premium Conferencing Mic systems					
8	CAB003	10 meter Connection cable for conferencing Mic systems Standard (female to Female connector)					
9	CAB004	10 meter extension cable for conferencing Mic systems (Standard) (Male to female connector)					
10	CAB005	2 core 1.0 sq mm Speaker Cable with laying - Per Meter					
11	CAB006	2 core 1.5 sq mm Speaker Cable with laying -Per Meter					
12	CAB007	1" PVC pipe with fixing & laying - Per Meter					
13	CAB008	2 core 14/36 shielded Mic Cable with Laying - per meter					
14	CAB009	3 core 1.5 sqmm Power Cable with laying and					

S. No (A)	Part Code (B)	Description (C)	Unit Price for without Taxes (in Rs) (D)	Appli cable GST per unit (in %) (E)	GST value per unit (in Rs.) (F)	Total Unit Price with all Taxes and duties (Rs.) (G) = (D)+(F)	HSN Code
		accessories - Per Meter					
15	CAB010	USB Male to Female Active Extender 10 Mtrs					
16	CAB011	VGA to HDMI Convertor					
17	CAB012	USB Male to Female Active Extender 5 Meters					
18	CAB013	USB Male to Female Active Extender 15 Meters					
19	CAB014	Cable cubby					
20	CAB015	10 meters RCA to phono cable					
21	AMP001	250 Watts Amplifier for Wireless Chairman / Delegate unit					
22	AMP002	Professional Power Amplifier, 2 x 450 W @ 4 Ohms, 2 x 650W @ 2 Ohms.					
23	AMP003	Dual 400 W per channel power amplifier @ 4ohms or 70/100V lines/Bridged mono out 860W @ 8 ohms					
24	AMP004	Mixer Amplifier 240 watts					
25	AMP005	PA Mixer Amplifier 500 Watts with Built-in Digital Player					
26	SPK001	30 W Premium Sound Cabinet Loudspeaker					
27	SPK002	2-Way 4 Inches 30 Watts Compact PA Wall Speakers					
28	SPK003	2-Way 6.5 Inches 60 Watts Compact PA Wall Speakers					
29	SPK004	200 watts 8" two-way Passive speaker system					
30	SPK005	Multimedia Speaker					
31	SPK006	USB speaker phone for conference Room upto 10 People					
32	SPK007	USB speaker phone for conference Room for up to 20 People					

S. No (A)	Part Code (B)	Description (C)	Unit Price for without Taxes (in Rs) (D)	Appli cable GST per unit (in %) (E)	GST value per unit (in Rs.) (F)	Total Unit Price with all Taxes and duties (Rs.) (G) = (D)+(F)	HSN Code
33	SPK008	2 way 6 inches 30 watts compact PA ceiling speakers					
34	SUW001	15" Single Powered Sub-Woofer, BLK (1300 W)					
35	MIC001	Dynamic supercardioid Handheld microphone with On/ Off Switch					
36	MIC002	18 inches Gooseneck Multi-Pattern Condenser Desk Microphone					
37	MIC003	UHF Handheld Wireless Microphone System					
38	MIC004	UHF Lapel Wireless Microphone System					
39	MIC005	Professional UHF Wireless Lapel + Headset PA Microphones					
40	MIC006	Handheld Wireless Microphone System with 8 Selectable UHF Channels.					
41	STD001	Floor Mic stand (3-5 feet)-Silver Color					
42	STD002	Boom Mic stand (3 - 6 feet) - Black Color					
43	STD003	Tripod Stand for 4k Professional Video Camera					
44	RAK001	Audio -Visual 17 U Rack with 3 Trays					
45	RAK002	Audio -Visual 27 U Rack with 4 Trays					
46	RAK003	Audio -Visual 42 U Rack with 6 Trays					
47	MIX001	8 Channel Mixing Console					
48	MIX002	12 Channel Mixing Console					
49	MIX003	8 channel Digital Audio Console					
50	MIX004	16 Channel Digital Audio Console					
51	STB001	1KVA Automatic Voltage Stabilizer					
52	STB002	2KVA Automatic Voltage Stabilizer					

S. No (A)	Part Code (B)	Description (C)	Unit Price for without Taxes (in Rs) (D)	Appli cable GST per unit (in %) (E)	GST value per unit (in Rs.) (F)	Total Unit Price with all Taxes and duties (Rs.) (G) = (D)+(F)	HSN Code
53	CON001	Connectors Required for Board Room Setup (upto 50 seater)					
54	CAM001	Full HD - 4 K Professional Video Camera					
55	CAM002	USB capture device					
56	CAM003	720P Webcamera for Laptop / Desktop for Video Conferencing					
57	CAM004	HD PTZ Conference Camera with speakerphone					
58	CAM005	USB - HD - PTZ camera with 12x zoom					
59	BAT001	Additional Battery for 4K Professional Video Camera					
60	MEM001	64GB SDHC card for professional Video camera					
61	BAG001	Bag for Professional Video Camera					
62	PRO001	4000 ANSI Lumens WXGA Projector – Portable					
63	MNT001	Executive Ceiling Mount Kit + Exp MS Rod 2/4feet					
64	SCR001	Motorised Projector Screen 100 inch with 16:10 format					
65	TVN001	55" Smart TV					
66	TVN002	75" Smart TV					
67	DIS001	98" 4k UHD LED Display					
68	DIS002	65 inch Interactive Display					
69	DIS003	75 inch Interactive Display					
70	ACC001	Console table for placing the digital audio console					
71	ACC002	Talk Back micro phone					
72	ACC003	Monitor Station Talk-Back system					
73	FIL001	Professional Studio Condenser Microphone & Pop Filter					
74	COM001	Core-i3 Mini CPU					
75	COM002	Core-i5 Mini CPU					

S. No (A)	Part Code (B)	Description (C)	Unit Price for without Taxes (in Rs) (D)	Appli cable GST per unit (in %) (E)	GST value per unit (in Rs.) (F)	Total Unit Price with all Taxes and duties (Rs.) (G) = (D)+(F)	HSN Code
76	MOS001	Wireless Keyboard with Mouse					
77	QSR001	Quad Core Server for Live Streaming					
78	TRY001	Pedestal Trolley for Multipurpose upto single 65" to 75" Display					
79	TRY002	Pedestal Trolley for Multipurpose upto single 98" Display					
80	FBS001	Feedback suppressor					
81	FBS002	50x50mm PVC cable duct supply & Fixing for running audio cables					
82	DEM001	hdmi de-embedder					
83	WMK001	wall mount kit for 75 inch display					
84	SAC001	1.5 Ton Split Air conditioner					
85	SAC002	2.0 Ton Split Air conditioner					
86	ECC001	Call Center with 10 Agents & Server Software Solution working on Linux OS					
87	EPR001	PRI gateway for termination & configuration of PRI ISDN Line					
88	EHS001	Headset with Microphone					
89	ENC001	Streaming Encoder/ Video Mixer/ Recorder					
90	TVN003	65" Smart TV					
		Total (G1)					

Category:2**Price bid for Support period**

S. No (A)	Part Code (B)	Description (C)	Unit Price for without Taxes (in Rs) (D)	Applicable GST per unit (in %) (E)	GST value per unit (in Rs.) (F)	Total Unit Price with all Taxes and duties (Rs.) (G) = (D)+(F)	HSN Code
91	CVC001	Cloud meeting SaaS based VC Licence with one year subscription for one Room Endpoint integration					
92	CVC002	Cloud meeting SaaS based VC Licence with one year subscription for Two Room Endpoint integration					
93	CVC003	Cloud meeting SaaS based Video conferencing Licence for one year subscription-Type 1					
94	CVC004	Cloud meeting SaaS based VC Licence for one year subscription for small offices-Type 2					
95	CVC005	SaaS based VC Licence for One Year Subscription-Type 3					
96	FIR001	Fortigate firewall FG 200E with one year subscription					
97	CIV001	Civil work for installation of conference system					
98	MAN001	Manpower charges per person per month to operate PA System and software based VC system					
		Total (G2)					

Value of the Price Bid = Total of Column (G1 + G2)

The Grand Total Amount of Column (G) will be evaluated to arrive at the Lowest Price (L1 Price) as per the Price bid Evaluation clause no.6.5.3

Comprehensive Annual Maintenance Cost
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Tender Reference no: ELCOT/Networks/OT/33458/PA System and software based VC /2021-22

Sl. No.	Category	Standard Product Warranty (in yrs) 'n'	CAMC in % for 'n' + 1 year	CAMC in % for 'n' + 2 year	CAMC in % for 'n' + 3 year	CAMC in % for 'n' + 4 year	GST in % for Col (4), (5), (6) & (7)
1	2	3	4	5	6	7	8
1	Sl.No.1 to 90						

Note:

- 1) The Bidders should specify the Standard Product Warranty period in Years under Column (3)
- 2) CAMC should be quoted without fail. CAMC cost means cost toward all the spares, service charge and all taxes.
- 3) CAMC percentage quoted should be less than 10%.
- 4) If the bidder quotes 0% or leaves the column unfilled or empty, it will be treated as the bidder would render CAMC at free of cost.

Signature of the authorised person:

Name of the authorised person:

Designation:

Name and Address of Bidder:

Stamp of bidder: