

**PAC HEAD QUARTERS, MAHANAGAR, UTTAR PRADESH, LUCKNOW
U.P. PAC HQ MAHANAGAR,
Lucknow - 226006**

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**COMPETITIVE e-Bidding FOR
THE SUPPLY OF EQUIPMENTS WITH INSTALATION FOR MODERNISATION /
UPGRADATION OF CONTROL ROOM PAC HEADQUARTER UTTAR PRADESH**

E-Bid REFERENCE	: PAC-III-402-2019 DATE. 31-01-2020
PUBLISH DATE AND TIME FOR RFP	: 03 February 2020 at 02:00 P.M.
LAST DATE AND TIME FOR SUBMISSION OF E-Bids	: 25 February 2020 at 04.00 P.M.
DATE AND TIME OF OPENING OF ONLINE TECHNICAL E-Bids	: 26 February 2020 at 11.30 A.M.
PLACE OF OPENING OF E-Bids	: UP PAC HQ, Mahanagar, Lucknow-226006
ADDRESS FOR COMMUNICATION	: Addl. S.P. (P) U.P. PAC HQ, Mahanagar, Lucknow-226006
E-Bid EMD	: Rs. 2,33,500/-

It will be the responsibility of the e-Bidders to check U.P. Government e-Procurement website <http://etender.up.nic.in> for any amendment through corrigendum in the e-tender document. In case of any amendment, e-Bidders will have to incorporate the amendments in their e-Bids accordingly.

Cost of E-bid Documents :	: Rs. 25,000/- + GST
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INVITATION FOR e-Bids

**THIS INVITATION FOR e-Bids IS FOR THE SUPPLY OF EQUIPMENTS WITH
INSTALATION FOR MODERNISATION / UPGRADATION OF CONTROL
ROOM PAC HEADQUARTERS UTTAR PRADESH**

1. Bidders are advised to study the tender Document carefully. Submission of e-Bid against this tender shall be deemed to have been done after careful study and examination of the procedures, terms and conditions of the tender Document with full understanding of its implications.
2. The e-Bid prepared in accordance with the procedures enumerated in ITB Clause 15 of Section-I should be submitted through e-Procurement website <http://etender.up.nic.in>.
3. The tender document is available at e-Procurement website <http://etender.up.nic.in> and UP Police website <http://uppolice.gov.in> from **03 February 2020**. Interested bidders may view, download the e-Bid document, seek clarification and submit their e-Bid online up to the date and time mentioned in the table below:

(a)	Date of publication of e-tender notice & availability of tender document	Tender notice & e-Tender document has been published over e-procurement website http://etender.up.nic.in and http://uppolice.gov.in and Tender document will be available from 03-02-2020 at 02.00 PM
(b)	Availability of tender document on website	03-02-2020 at 02.00 PM at e-procurement website http://etender.up.nic.in and http://uppolice.gov.in
(c)	E-bid submission start date & time (submission of e-tender fee, EMD and other supporting documents in PDF/ XLS format)	03-02-2020 at 02.00 PM
(d)	E-bid submission end date & time	25-02-2020 at 04.00 PM
(e)	Online technical e-bid opening date & time	26-02-2020 at 11.30 AM
(f)	Online financial e-bid opening date & time (Only of technically qualified bidders)	Only of technically qualified bidders
(g)	Venue of opening of technical & financial e-bids	UP PAC HQ, Mahanagar, Lucknow
(h)	Contact officer	Name- Addl. S.P. (P) Tel/Fax- +91-0522-2337452-54-55-56 e-mail- aspacp@uppac.net
(i)	Cost of e-bid document	₹ 25,000/- + GST
(j)	E-bid Earnest Money	₹ 2,33,500/-

4. (1) निविदादाता को निविदा प्रपत्र मूल्य (उपरोक्त अंकित) का डिमांड ड्राफ्ट/एफ0डी0आर0 पुलिस उपमहानिरीक्षक, पीएसी मुख्यालय, महानगर, लखनऊ के पक्ष में दिनांक: 25-02-2020 को 1600 बजे तक जमा करना होगा, अन्यथा उनकी बिड Unresponsive मानते हुए कोई विचार नहीं किया जायेगा। निविदा शर्तों एवं स्पेशिफिकेशन के अनुसार समस्त प्रपत्र की स्कैन कापी भी बिड के साथ ई-टेंडर पोर्टल पर अपलोड करना होगा। धरोहर धनराशि राष्ट्रीयकृत बैंक के द्वारा

केवल डिमांड ड्राफ्ट/एफ0डी0आर0 के रूप में पुलिस उपमहानिरीक्षक, पीएसी मुख्यालय, लखनऊ के नाम/पक्ष में बन्धक तथा लखनऊ में देय होना अनिवार्य है, जिसकी स्कैन कापी आनलाइन अपलोड करना अनिवार्य होगा एवं दिनांक: 25-02-2020 को 1600 बजे तक मूलप्रति उ0प्र0 पीएसी मुख्यालय, महानगर, लखनऊ में आफलाइन उपलब्ध कराना अनिवार्य होगा, अन्यथा निविदा स्वीकार नहीं की जायेगी।

- (2) The bidders need to submit the proof/cost of e-Bid document/processing as stated in the above table in Cash in the Purchaser's office or through of line through in favour of Dy. Inspector General of Police, PAC Headquarters, Mahanagar, Lucknow. The scanned copy of the Receipt of line payment through e-Tender portal must be enclosed / uploaded along with the e-Bids.
5. It is necessary for a Bidder to quote all schedules of Bid. Bidders must quote for all the items in a schedule in the Technical Bid and in the price schedule/BOQ of financial bid. The bids of bidders who will not quote for all the items in any schedule in technical as well as financial bids shall be rejected.
 6. All e-Bid must be accompanied by e-Bid Security/Earnest Money Deposit (EMD) in the form of offline through e-Tender portal / Demand Draft / FDR from Scheduled Bank, drawn in favour of Dy. Inspector General of Police PAC Head Quarters Mahanagar Lucknow. The scanned copy of the e-tender fee/EMD must be submitted along with the e-Bid and the original should reach the PAC HEADQUARTERS, MAHANAGAR, UTTAR PRADESH, LUCKNOW before opening of technical e-Bids. No Interest would be payable on e-Bid Security (Earnest Money) deposited with the ADG PAC HEADQUARTERS, MAHANAGAR, UTTAR PRADESH, LUCKNOW.
 7. The e-Bids will be electronically opened in the presence of bidder's representatives, who choose to attend at the venue, date and time mentioned in the above table. An authority letter of bidder's/OEM representative will be required to be produced.
 8. The UP PAC reserves the right to cancel any or all the e-Bids/annul the e-Bid process without assigning any reason thereof. The decision of ADG PAC HEADQUARTERS, MAHANAGAR, UTTAR PRADESH, LUCKNOW will be final and binding.
 9. In the event of date specified for e-Bids opening being declared a holiday for PAC HEADQUARTERS, MAHANAGAR, UTTAR PRADESH, LUCKNOW then the due date for opening of e-Bids shall be the following working day at the appointed time and place.
 10. All the required documents including Price Schedule/BOQ should be uploaded by the e-Bidder electronically in the PDF/XLS format. The required electronic documents for each document label of Technical (Fee details, Qualification details, e-Bid Form and Technical Specification details) schedules/packets can be clubbed together to make single different files for each label.
 11. The companies/firms who are registered at e-Procurement portal for e-tendering with U.P. Electronics Corporation Ltd. (UPCL), 10, Ashok Marg, Lucknow (UP) would only be eligible for participating in this e-tender. The companies/firms who have not registered themselves with UPLC for e-tendering till date can get their registration done by depositing a filled in form issued by UPLC along with registration fee participating in this e-tender and other e-tenders of U.P. Govt. departments. The companies/firms, who are not having digital signature, can also get their digital signature on deposit of processing fees. The companies/firms may contact the officials on phone numbers 0522-2286809, 0522-2288750 (O) 0522-4130303 (Extension: 303, 304 & 307), for their Registration/Digital Signature Certificate related queries.

SECTION I: INSTRUCTIONS TO BIDDERS (ITB)

(A) THE BID DOCUMENT

1. Cost of e-Bid

- a) The bidder shall bear all costs associated with the preparation and submission of its e-Bid and ADG PAC HEADQUARTERS, MAHANAGAR, UTTAR PRADESH, LUCKNOW hereinafter referred to as “the Purchaser”, will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the e-Bid process.
- b) This tender document is available on the web site <http://etender.up.nic.in> and UP Police website <http://uppolice.gov.in> to enable the bidders to view, download the e-Bid document and submits e-Bids online up to the last date and time mentioned in e-Tender notice/e-tender document against this e-Tender. The bidders shall have to pay e-Tender document fee (Table given below) of through offline e-Tender portal payable in favour of Dy. Inspector General of Police, PAC Headquarters, Lucknow. The scanned copy of the Receipt of Online through e-Tender portal must be enclosed along with the e-Bid. This e-tender document fee is non-refundable:-

Sl.	Name of Equipments	Tender Cost
1	2	3
1	<u>THE SUPPLY OF EQUIPMENTS WITH INSTALATION FOR MODERNISATION / UPGRADATION OF CONTROL ROOM PAC HEADQARTERS</u>	₹ 25,000/- + GST

2. Contents of e-Bid Document

- 2.1 The goods required to be supplied; e-Bid procedure and contract terms and conditions are prescribed in the e-Bid document. The e-Bid document includes:
 - (a) Invitation for e-Bid
 - (b) Section I : Instruction to bidders (ITB);
 - (c) Section II : Conditions of Contract (CC);
 - (d) Section III : Technical e-Bid;
 - (e) Section IV : Financial e-Bid;
- 2.2 The bidder is expected to examine all instructions, forms, terms and specifications in the e-Bid document. Failure to furnish all information required as per the e-Bid document or submission of e-Bid not responsive to the e-Bid document in every respect will be at the bidder’s risk and may result in rejection of the said e-Bid.

3. Clarification of e-Bid Document

A prospective bidder requiring any clarification of the e-Bid document may raise his/her point of clarification through Bid Management Window after successfully login to the e-Procurement website <http://etender.up.nic.in>. The bidder may seek clarification by posting query in the relevant window after clicking "Seek Clarification" option in the view e-tender details window for e-tender which can be selected through my tender option of e-Bid submission menu. The clarification will be replied back by the Purchaser through the e-Procurement website which can be read by the bidder through the "Clarification" option under Bid Submission menu. The Purchaser may also respond to clarifications raised by the prospective bidders on Purchaser's e-mail address

4. Amendment of e-Bid Document

- 4.1 At any time prior to the deadline for submission of e-Bid, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the e-Bid document by amendments. Such amendments shall be uploaded on the e-Procurement website [4](http://</div><div data-bbox=)

- etender.up.nic.in and UP Police website <http://uppolice.gov.in> through corrigendum and shall form an integral part of e-Bid document. The relevant clauses of the e-bid document shall be treated as amended accordingly.
- 4.2 It shall be the sole responsibility of the prospective bidders to check the web site <http://etender.up.nic.in> or UP Police website <http://uppolice.gov.in> from time to time for any amendment in the e-tender document. In case of failure to get the amendments, if any, the Purchaser shall not be responsible for it.
- 4.3 In order to allow prospective e-Bidders a reasonable time to take the amendment into account in preparing their e-Bids, the Purchaser, at his discretion, may extend the deadline for the submission of e-Bids. Such extensions shall be uploaded on the e-Procurement website <http://etender.up.nic.in> and UP Police website <http://uppolice.gov.in>

(B) PREPARATION OF e-Bid

5. Language of e-Bid

- 5.1 The e-bid prepared by the bidder, as well as all correspondence and documents relating to the e-bid exchanged by the bidder and the Purchaser shall be written either in English or Hindi language. The correspondence and documents in Hindi must be accompanied by embedded/separate Hindi font files. Only English numerals shall be used in the e-bid.

6. Documents Constituting the e-Bid

- 6.1 The e-Bid prepared by the bidder shall comprise the following components:
- (a) **Technical e-Bid** - Technical e-Bid will comprise of :
- (i) **Fee Details** – includes copies of e-tender document processing Cost and Earnest Money Deposit (EMD) furnished in accordance with ITB Clause 12 in PDF format.
- (ii) **Qualification Details** – includes copies of required documents as per ITB Clauses 10 and 11 in PDF format justifying that the bidder is qualified to perform the contract if his/her bid is accepted and that the bidder has financial, technical and production capability, if any, necessary to perform the contract and meets the criteria outlined in the Qualification Requirement and Technical Specification and fulfill all the conditions of the Contract and that the goods and ancillary services to be supplied by the bidder conform to the e-Bid document and Technical Specifications.
- (iii) **e-Bid Form** – includes copy of filled in e-Bid Form as per Section-III(A) of e-tender document in PDF format justifying that the bidder is complying with all the conditions of the Contract and Technical Specifications of the e-Bid Document as no deviation will be acceptable to the Purchaser.
- (iv) **Technical Specification Details** – includes copy of filled in Technical Specifications as per Section-III(C) of e-tender document in PDF format.
- (b) **Financial e-Bid** – Financial e-Bid will comprise of :
- e-Bid Form** – includes copy of filled in e-Bid Form as per Section-IV (A) of e-tender document in PDF format.
- (ii) **Price Schedule/BOQ** – includes Price Schedule/BOQ in XLS format to be filled in after downloading from the e-Procurement website for this e-tender.

7. e-Bid Form

- 7.1 The bidder shall complete the e-Bid Form and the appropriate Price Schedule/BOQ furnished in the e-Bid document, including the goods to be supplied, their quantities and prices in the format given in the e-Bid document.

8. e-Bid Price

- 8.1 The bidder shall quote separately in the downloaded spread sheet file for Price Schedule/BOQ unit price (Vender must include GST and other Tax/Duty applicable

on Govt. In case it is not mentioned, total quoted will be presumed to include GST and other Tax/Duty on the Govt.) of each item in the specified places for all the goods mentioned in Section III (C) of Technical Specifications. The unit prices quoted shall be with onsite comprehensive warranty as well as extended warranty as per period specified in column-3 of Section III(C) of Technical Specifications.

- I. The price of goods (ex-works, ex-factory, ex-showroom, ex-warehouse, or off-the-shelf, as applicable), including all duties and sales and other taxes already paid or payable:
 - (a) On components and raw material used in the manufacture or assembly of goods quoted ex-works or ex-factory; or
 - (b) On the previously imported goods of foreign origin quoted ex-showroom, ex-warehouse, or off-the-shelf.
 - II. Any Indian duties, sales and other taxes which will be payable on the goods if this Contract is awarded.;
 - III. The price for inland transportation, insurance and other local costs incidental to delivery of the goods to their final destination.
 - IV. The price of other incidental services listed in Clause 11 of the Conditions of Contract.
- 8.2 Prices quoted by the bidder shall be fixed during the bidder's performance of the Contract and not subject to variation on any account subject to ITB Clause 25.1. An e-Bid submitted with an adjustable price quotation unless asked for shall be treated as non-responsive and rejected.

9. e-Bid Currencies

Prices shall be quoted in Indian Rupees only.

10. Documents Establishing bidder's Qualification

- 10.1 Pursuant to ITB Clause 6, the bidder shall furnish, as part of its Technical e-Bid, documents establishing the bidder's qualification to perform the Contract if its e-Bid is accepted. The documentary evidence should be submitted by the bidder electronically in the PDF format.
- 10.2 The documentary evidence of bidder's qualification to perform the Contract if its e-Bid is accepted shall be as per Qualification Requirements specified in Section III (D) of e-tender document.

11. Documents Establishing Goods' Conformity to e-Bid Documents

- 11.1 Pursuant to ITB Clause 6, the bidder shall furnish, as part of its e-Bid, documents establishing the conformity to the e-Bid documents of all goods and services which the bidder proposes to supply under the contract. The documentary evidence should be in the PDF file format.
- 11.2 The documentary evidence of conformity of the goods and services to the e-Bid documents shall consist of:
 - (a) The brochures/leaflets/the document downloaded from the internet site of the OEM of the goods offered in support of the technical specifications asked in the e-tender.
 - (b) An item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications;
 - (c) A confirmation that the bidder is either OEM or Authorized dealer of the OEM. Willful misrepresentation of these facts shall lead to the cancellation of the e-Bid/ contract without prejudice of other remedies that the Purchaser may take.

12. Earnest Money Deposit (EMD) /e-Bid security

- 12.1 Pursuant to ITB Clause 6, the bidder shall furnish, as part of its e-Bid, an e-Bid EMD **submitted offline through e-Tender portal / Demand Draft / F.D.R, from Scheduled Bank through e-Tender portal in favour of Dy. Inspector General of Police PAC Headquarters Mahanagar Lucknow.** The scanned copy of the e-Bid EMD must be submitted along with the e-Bid and the original should reach the Purchaser's office at PAC HEADQUARTERS, MAHANAGAR, UTTAR PRADESH, LUCKNOW before opening of technical e-Bid:-

Sl.	Name of Equipments	धरोहर राशि (EMD)
1	2	3
1	<u>THE SUPPLY OF EQUIPMENTS WITH INSTALATION FOR MODERNISATION / UPGRADATION OF CONTROL ROOM PAC HEADQARTERS</u>	₹ 2,33,500/-

- 12.2 The e-Bid security is required to protect the Purchaser against the risk of bidder's conduct which would warrant the security's forfeiture, pursuant to ITB Clause 12.7.
- 12.3 The e-Bid security shall be in Indian Rupees and shall be in the following forms only:
Bidder may submit the bid security of the above amount in the form of online payment through e-tender portal <http://etender.up.nic.in> payable in favour of Dy. Inspector General of Police PAC Headquarters Mahanagar Lucknow.
- 12.4 Any e-Bid not secured in accordance with ITB Clauses 12.1 and 12.3 above shall be treated as non-responsive and rejected by the Purchaser.
- 12.5 Unsuccessful bidder's e-Bid EMD will be returned upon the written request through FDR/Demand Draft as promptly as possible after the expiration of the period of e-Bid validity prescribed by the Purchaser, pursuant to ITB Clause 13.
- 12.6 The successful bidder's e-Bid EMD will be returned upon the bidder signing the Contract, pursuant to ITB Clause 28, and furnishing the performance security, pursuant to ITB Clause 29.
- 12.7 The e-Bid security may be forfeited:
- if a bidder (i) withdraws its e-Bid during the period of e-Bid validity specified by the bidder on the e-Bid Form; or (ii) does not accept the correction of errors pursuant to ITB Clause 22.2; or (iii) modifies its e-Bid price during the period of e-Bid validity specified by the bidder on the e-Bid form or
 - in case of a successful bidder, if the bidder fails:
 - to sign the Contract with the Purchaser in accordance with ITB Clause 28; or
 - to furnish performance security in accordance with ITB Clause 29.

13. Period of Validity of e-Bid

- 13.1 e-Bid shall remain valid for 90 days after the date of e-Bid opening prescribed by the Purchaser, pursuant to ITB Clause 16. An e-Bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.
- 13.2 In exceptional circumstances, the Purchaser may solicit the bidder's consent to an extension of the period of e-Bid validity. The request and the response thereto shall be made in writing. A bidder may refuse the request without forfeiting its e-Bid security. A bidder granting the request will not be required nor permitted to modify its e-Bid.

14. Format and Signing of e-Bid

- 14.1 The bidder shall prepare one electronic copy each of the Technical e-Bid and Financial e-Bid separately.
- 14.2 The e-Bid document shall be digitally signed, at the time of uploading, by the bidder or a person or persons duly authorized to bind the bidder to the Contract. The later authorization shall be indicated by a scanned copy of written power-of-attorney accompanying the e-Bid. All the pages/ documents of the e-Bid that are to be uploaded shall be digitally signed by the person authorized to sign the e-Bid.

15. Submission of e-Bid

The Bid Submission module of e-Procurement website <http://etender.up.nic.in> enables the bidders to submit the e-Bid online in response to this e-tender published by the Purchaser. Bid Submission can be done only from the Bid Submission start date and time till the Bid Submission end date and time given in the e-tender. Bidders should start the Bid Submission process well in advance so that they can submit their e-Bid in time. The bidders should submit their e-Bid considering the server time displayed in the e-Procurement website. This server time is the time by which the e-Bid submission activity will be allowed till the permissible time on the last/end date of submission indicated in the e-tender schedule. Once the e-Bid submission date and time is over, the bidders cannot submit their e-Bid. For delay in submission of e-Bid due to any reasons, the bidders shall only be held responsible.

The bidders have to follow the following instructions for submission of their e-Bid:

- 15.1 For participating in e-Bid through the e-tendering system, it is necessary for the bidders to be the registered users of the e-Procurement website <http://etender.up.nic.in>. The bidders must obtain a User Login Id and Password by registering themselves with U.P. Electronics Corporation Limited, Lucknow if they have not done so previously for registration. Refer to details given in Invitation for e-Bid Clause 11.
- 15.2 In addition to the normal registration, the bidder has to register with his/her Digital Signature Certificate (DSC) in the e-tendering system and subsequently he/she will be allowed to carry out his/her e-Bid submission activities. Registering the Digital Signature Certificate (DSC) is a one time activity. Before proceeding to register his/her DSC, the bidder should first log on to the e-tendering system using the User Login option on the home page with the Login Id and Password with which he/ she has registered as per clause 15.1 above.
For successful registration of DSC on e-Procurement website <http://etender.up.nic.in> the bidder must ensure that he/she should possess Class-2/ Class-3 DSC issued by any certifying authorities approved by Controller of Certifying Authorities, Government of India, as the e-Procurement website <http://etender.up.nic.in> is presently accepting DSCs issued by these authorities only. The bidder can obtain User Login Id and perform DSC registration exercise as described in clauses 15.1 and 15.2 above even before e-Bid submission date starts. The Purchaser shall not be held responsible if the bidder tries to submit his/her e-Bid at the last moment before end date of submission but could not submit due to DSC registration problem.
- 15.3 The bidder can search for active tenders through "Search Active tenders" link, select a tender in which he/she is interested in and then move it to 'My Tenders' folder using the options available in the e-Bid Submission menu. After selecting and viewing the tender, for whom the bidder intends to e-Bid, from "My Tenders" folder, the bidder can place his/her e-Bid by clicking "Pay Offline" option available at the end of the view tender details form. Before this, the bidder should download

- the e-tender document and Price Schedule/Bill of Quantity (BOQ) and study them carefully. The bidder should keep all the documents ready as per the requirements of e-tender document in the PDF format except the Price Schedule/Bill of Quantity (BOQ) which should be in the XLS format (Excel sheet).
- 15.4 After clicking the 'Pay Offline' option, the bidder will be redirected to the Terms and Conditions page. The bidder should read the Terms & Conditions before proceeding to fill in the Tender Fee and EMD offline payment details. After entering and saving the Tender Fee and EMD details, the bidder should click "Encrypt & Upload" option given in the offline payment details form so that "Bid Document Preparation and Submission" window appears to upload the documents as per Technical (Fee details, Qualification details, e-Bid Form and Technical Specification details) and financial (e-Bid Form and Price Schedule/BOQ) schedules/packets given in the tender details. The details of the Demand Draft or any other accepted instrument which is to be physically sent in original before opening of technical e-Bid, should tally with the details available in the scanned copy and the data entered during e-Bid submission time otherwise the e-Bid submitted will not be accepted.
- 15.5 Next the bidder should upload the Technical e-Bid documents for Fee details (e-tender fee and EMD), Qualification details as per "ITB Clause 10 or 21", e-Bid Form as per "Section-III(A)" and Technical Specification details as per "Section-III(C):Technical Specifications" and Financial e-Bid documents as per "Section-IV(A):e-Bid Form" and "Section-IV(B):Price Schedule/BOQ" of e-tender document. Before uploading, the bidder has to select the relevant Digital Signature Certificate. He may be prompted to enter the Digital Signature Certificate password, if necessary. For uploading, the bidder should click "Browse" button against each document label in Technical and Financial schedules/packets and then upload the relevant PDF/XLS files already prepared and stored in the bidder's computer. The required documents for each document label of Technical (Fee details, Qualification details, e-Bid Form and Technical Specification details) and financial (e-Bid Form and Price Schedule/BOQ) schedules/packets can be clubbed together to make single different files for each label.
- 15.6 The bidder should click "Encrypt" next for successfully encrypting and uploading of required documents. During the above process, the e-Bid documents are digitally signed using the DSC of the bidder and then the documents are encrypted/locked electronically with the DSC's of the bid openers to ensure that the e-Bid documents are protected, stored and opened by concerned bid openers only.
- 15.7 After successful submission of e-Bid document, a page giving the summary of e-Bid submission will be displayed confirming end of e-Bid submission process. The bidder can take a printout of the bid summary using the "Print" option available in the window as an acknowledgement for future reference.
- 15.8 Purchaser reserves the right to cancel any or all e-Bids without assigning any reason.
- 16. Deadline for Submission of e-Bid**
- 16.1 e-Bid (Technical and Financial) must be submitted by the bidders at e-Procurement website <http://etender.up.nic.in> not later than the time 04.00 P.M. on 25 February 2020 (as the server time displayed in the e-Procurement website).
- 16.2 The Purchaser may, at its discretion, extend this deadline for submission of e-Bid by amending the e-Bid document in accordance with ITB Clause 4, in which case all rights and obligations of the Purchaser and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

17. Late e-Bid

- 17.1 The server time indicated in the Bid Management window on the e-Procurement website <http://etender.up.nic.in> will be the time by which the e-Bid submission activity will be allowed till the permissible date and time scheduled in the e-tender. Once the e-Bid submission date and time is over, the bidder cannot submit his/her e-Bid. Bidder has to start the Bid Submission well in advance so that the submission process passes off smoothly. The bidder will only be held responsible if his/her e-Bid is not submitted in time due to any of his/her problems/faults, for whatsoever reason, during e-Bid submission process.

18. Withdrawal and Resubmission of e-Bid

- 18.1 At any point of time, a bidder can withdraw his/her e-Bid submitted online before the bid submission end date and time. For withdrawing, the bidder should first log in using his/ her Login Id and Password and subsequently by his/her Digital Signature Certificate on the e-Procurement website <http://etender.up.nic.in>. The bidder should then select "My Bids" option in the Bid Submission menu. The page listing all the bids submitted by the bidder will be displayed. Click "View" to see the details of the e-Bid to be withdrawn. After selecting the "Bid Withdrawal" option, the bidder has to click "Yes" to the message "Do you want to withdraw this bid?" displayed in the Bid Information window for the selected bid. The bidder also has to enter the bid Withdrawing reasons and upload the letter giving the reasons for withdrawing before clicking the "Submit" button. The bidder has to confirm again by pressing "Ok" button before finally withdrawing his/her selected e-Bid.
- 18.2 The bidder has to request the Purchaser with a letter, attaching the proof of withdrawal and submission of e-Bid EMD in the office of Purchaser, to return back the e-Bid EMD as per the manual procedure.
- 18.3 No e-Bid may be withdrawn in the interval between the deadline for submission of e-Bids and the expiration of period of e-Bid validity. Withdrawal of an e-Bid during this interval may result in the bidder's forfeiture of his/her e-Bid security, pursuant to ITB Clause 12.7.
- 18.4 The bidder can re-submit his/her e-Bid as and when required till the e-Bid submission end date and time. The e-Bid submitted earlier will be replaced by the new one. The payment made by the bidder earlier will be used for revised e-Bid and the new e-Bid submission summary generated after the successful submission of the revised e-Bid will be considered for evaluation purposes. For resubmission, the bidder should first log in using his/her Login Id and Password and subsequently by his/her Digital Signature Certificate on the e-Procurement website <http://etender.up.nic.in>. The bidder should then select "My Bids" option in the Bid Submission menu. The page listing all the bids submitted by the bidder will be displayed. Click "View" to see the details of the e-Bid to be resubmitted. After selecting the "Bid Resubmission" option, click "Encrypt & Upload" to upload the revised e-Bid documents by following the methodology provided in clauses 15.4 to 15.7.
- 18.5 The bidders can submit their revised e-Bids as many times as possible by uploading their e-Bid documents within the scheduled date & time for submission of e-Bids.
- 18.6 No e-Bid can be resubmitted subsequently after the deadline for submission of e-Bids.

(C) e-Bid OPENING AND EVALUATION OF e-Bid

19. Opening of Bids

19.1 Opening of Technical e-Bid by the Purchaser

- (i) The Purchaser will open all technical e-Bids, in the presence of bidders' representatives who choose to attend at **11.30 A.M. on 26 February 2020** at PAC Headquarters, Mahanagar, Lucknow. The bidder's representatives who are present shall sign a register evidencing their attendance. In the event of the specified date of e-Bid opening being declared a holiday for the Purchaser, the e-Bids shall be opened at the appointed time and place on the next working day.
- (ii) The bidder's names and the presence or absence of requisite e-Bid security and such other details as the Purchaser at its discretion may consider appropriate, will be announced at the opening. The name of such bidders not meeting the Technical Specifications and qualification requirement shall be notified subsequently.
- (iii) The Purchaser will prepare minutes of the e-Bid opening.

19.2 Opening of Financial e-Bid

- (i) After evaluation of technical e-Bid, the Purchaser shall notify those bidders whose technical e-Bids were considered non-responsive to the Conditions of the Contract and not meeting the technical specifications and Qualification Requirements indicating that their financial e-Bids will not be opened. The Purchaser will simultaneously notify the bidders, whose technical e-Bids were considered acceptable to the Purchaser. The notification may be sent by letter, fax or by e-mail.
- (ii) The financial e-Bids of technically qualified bidders shall be opened in the presence of bidders who choose to attend, and date for opening of financial bids will be communicated to the Technically Qualified Bidders subsequently after completion of technical bids evaluation. The name of bidders, Unit Price quoted for various items etc will be announced at the meeting.
- (iii) The Purchaser will prepare the minutes of the e-Bid opening.

20. Clarification of e-Bid

During evaluation of e-Bid, the Purchaser may, at its discretion, ask the bidder for a clarification of his/her e-Bid. The request for clarification and the response shall be in writing.

21. Evaluation of technical e-Bid and Evaluation Criteria

The Purchaser will examine the e-Bid to determine whether they are complete, whether they meet all the conditions, whether required e-tender fee, e-Bid security and other required documents have been furnished, whether the documents have been properly digitally signed, and whether the e-Bids are generally in order. Any e-Bid or e-Bids not fulfilling these requirements shall be rejected.

The tenderers whose technical offer fulfills the eligibility criteria shall be required to submit 14 samples, if required, before technical committee on demand for the purpose of technical evaluation and demonstration at his own cost.

- 21.1 The bidder should be a branded/Original Equipment Manufacturer (OEM) of tendered item or their authorized dealer/distributor/supplier, which has been authorized by the OEM to participate in this e-tender as per serial no. (A), (B), (C) and (D) in the "Schedules of Requirements". **The e-Bids of bidders who are dealers/distributor/suppliers of OEMs of all the products mentioned above and**

have not submitted their authorization certificates from their Manufacturer (OEM) for this e-tender shall also be rejected.

- 21.2 The bidder/the Original Equipment Manufacturer of the tendered products quoted in the e-tender shall be in the business of regular supply and installation of the same make/brand of the products since last three financial years. The e-Bids of the bidders not submitting duly signed & stamped evidence i.e. copies of one purchase order, either executed or on-going and its satisfactory installation report per year for each of the last three financial years regarding regular supply of the same brand of products as quoted in the e-Bid, if required, shall be rejected. The e-Bidders should also submit filled in Performa as per "Section III (G)-Performance Statement Form" in support of his/her experience.
- 21.3 The bidder, who has been authorized by any OEM for the first time, shall be in the business of regular supply and installation of any make/brand of the products since last three financial years. The e-Bids of the bidders not submitting duly signed & stamped evidence i.e. copies of one purchase order and its satisfactory installation report per year for each of the last three financial years regarding regular supply of the same brand of products as quoted in the e-Bid shall be rejected. The e-Bidders should also submit filled in Performa as per "Section III (G) - Performance Statement Form" in support of his/her experience.
- 21.4 All the items quoted should have minimum technical specifications given in the e-tender.
- 21.5 The bidder are required to submit details of a Service centers in UP, existing or proposed for this contract.
- 21.6 The bidder should submit a notarized affidavit that the bidder's firm has not been black listed from any State/Central Government Departments/Organizations. The e-Bids of the black-listed bidders or those not submitting the required affidavit shall be rejected.
- 21.7 The bids of the bidders not quoting all the items of a schedule of the tender may be rejected. It is not necessary for a Bidder to quote all schedules of Bid. But if bidder is quoting any schedule, it is must to quote all items for that schedule. Bidders must quote for all the items in a schedule in the technical bid and in the price schedule/BOQ of financial bid. The bids of bidders who will not quote for all the items in any schedule in technical and financial bids shall be rejected.
- 21.8 The e-Bids found to be not responsive to and not fulfilling all the conditions of the contract and not meeting Technical Specifications and Qualification Requirements to the satisfaction of Purchaser shall be rejected and may not subsequently be made responsive by the bidder by correction of the non-conformity. The e-Bids of bidders mentioning any of their conditions which are not mentioned in the e-tender document or are not in conformity with the conditions of the contract shall be rejected.
- 21.9 It shall be the discretion of the Purchaser to decide as to whether an e-Bid fulfils the evaluation criterion mentioned in this e-tender or not.
- 21.10 The bidders are advised not to mix financial bid documents with the PDF documents submitted for technical bid. The e-Bids of the bidders having financial bid document in the technical bid will out rightly be rejected.

22. Financial Evaluation and Comparison

- 22.1 The Purchaser will evaluate and compare the financial rate of equipment of those bidders whose technical e-Bids are found responsive as per the conditions of the e-tender only for those items of the bidders which have been technically accepted by the Purchaser.

- 22.2 No additional payments shall be made for completion of any contractual obligation beyond the quoted prices. If the supplier does not accept the correction of errors if any, its e-Bid shall be rejected and its e-Bid security may be forfeited.
- 22.3 The Purchaser's evaluation of a Financial bid shall be based on lowest rate quoted including GST by the bidder including the cost of equipment as indicated in the technical specification and price of incidental services and the cost of inland transportation, insurance and other costs within India incidental to the delivery of the goods to their final destination as mentioned in para 8.2 of ITB.
- 22.4 Evaluation for bids shall be done schedule wise based on total lowest bid price (including GST and other tax/duty) received for item for that schedule.**
- 22.5 The bidders whose technical bids would be found responsive and meeting the qualification requirements and fulfilling all conditions of the tenders, shall be considered for those items which would be technically accepted by the purchaser and whose schedule-wise bid price quoted are lowest in the bids.

23. Contacting the Purchaser

- 23.1 Subject to ITB Clause 20, no bidder shall contact the Purchaser on any matter relating to his/her e-Bid, from the time of the e-Bid opening to the time the Contract is awarded. If the bidder wishes to bring additional information to the notice of the Purchaser, he/she can do so in writing.
- 23.2 Any effort by a bidder to influence the Purchaser in its decisions on e-Bid evaluation, e-Bid comparison or contract award may result in rejection of the bidder's e-Bid.

(D) AWARD OF CONTRACT

24. Award Criteria

- 24.1 The Purchaser will determine to its satisfaction whether the bidder(s) that is selected as having submitted the lowest evaluated responsive bid meets the criteria specified in ITB Clause 10.2, and is qualified to perform the contract satisfactorily.
- 24.2 Subject to ITB Clause 26, the Purchaser will award the contract to the lowest evaluated successful Bidder whose bid has been determined to be responsive to all the conditions of the contract and meeting the Technical specification and qualification requirement of the Bidding Document.

25. Purchaser's right to vary Quantities at the Time of Award

- 25.1 The Purchaser reserves the right at the time of Contract award to increase or decrease as per requirement of client department(s) the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions, depending upon the requirement of end-customer.
- 25.2 If any taxes/duties are increased/ decreased by the Government during the contract period, the same shall be adjusted mutually after submitting the proof by the successful bidder to the Purchaser.

26. Purchaser's right to accept any e-Bid and to reject any or all e-Bids

- 26.1 The Purchaser reserves the right to accept or reject any e-Bid, and to annul the e-Bid process and reject all e-Bids at any time prior to contract award, without thereby incurring any liability to the affected bidder or bidders.

27. Notification of Award

- 27.1 Prior to the expiration of the period of e-Bid validity, the Purchaser will notify the successful bidder in writing by letter/e-mail/fax, that its e-Bid has been accepted.
- 27.2 The notification of award will constitute the formation of the Contract.

27.3 Upon successful bidder's furnishing of performance security pursuant to ITB Clause 29, the Purchaser will promptly return e-Bid security pursuant to ITB Clause 12.

28. Signing of Contract

28.1 At the same time as the Purchaser notifies the successful bidder that its e-Bid has been accepted, the Purchaser will send the bidder the Contract Form provided in the e-Bid document, incorporating all conditions of the agreement between the parties i.e. Purchaser and successful bidder.

27.2 Within 7 days of receipt of the Contract Form, the successful bidder shall execute, sign and date the Contract and return it to the Purchaser.

29. Performance Security

29.1 A Performance Security deposit equivalent to 10 percent of the total value of the estimated cost have to be furnished by the successful supplier in the form of Bank Guarantee/ fixed deposits from a scheduled Nationalized Bank acceptable to Inspector General of Police, PAC Headquarters, Lucknow within 07 days of issue of Purchase Order for due performance of the aforesaid agreement. The Performance Security Deposit will not carry any interest whatsoever in any circumstances.

30. Place of Delivery

Place of delivery shall be FOR destination. It shall be the supplier's responsibility to deliver at PAC, HQ, Mahanagar, Lucknow-226006 according to his own cost in full and good condition.

31. Delivery Period

- (1) Early deliveries are required. It shall be executed within 45 Days from the date of issuing order. Tenderers are required to quote their delivery schedule.
- (2) Penalty @ 0.5% per week or part thereof of the contract value shall be levied for delay in supply subject to maximum of 10% in the form of LD.
- (3) In case the firm does not complete the supply within the delivery period, action will be taken against the firm as per Para 15.7 of DGS&D Manual and Para 14.7(i) of Ministry of Commerce, department of supply of the general conditions of the contract.
- (4) Firm should not deliver stores to consignee(s) beyond scheduled delivery period without obtaining prior sanction of purchaser.
- (5) In case, firm deliver stores after scheduled delivery period, even if the stores are accepted by the consignee, it would be at the risk and cost of the seller as the supply may not be taken as contractually accepted.
- (6) ADG PAC Headquarters, Mahanagar, Lucknow-226006 may extend delivery period with or without liquidated damage in exceptional circumstances.

32. Supply/ Installation of Ordered Stores

- (1) The bulk supplies in the case of successful tenderers should conform to requirements during trial evaluation in all respects besides specification mentioned.
- (2) The tenderers will be fully responsible for proper installations, testing and making the equipment functional before acceptance of stores and final settlement of account.
- (3) The equipment should be brand new, lot/make/model no/batch number/year of manufacturing/name of manufacturer & other detail should be given.
- (4) Original literature supplied with the item/equipment should also be provided.
- (5) The trial/demonstration will be done by the technical committee detailed by ADG PAC Head Quarters, Lucknow.

33. Guarantee/Warranty

- 1- That supplier shall provide warranty of not less than one year that the stores supplied would continue to be of the same quality and particulars for a period of one year

from the date of supply of the store to consignee. Warranty details of sum equipment is mention in Technical Specification.

- 2- During Guarantee/Warranty period, the cost of all spare parts shall be borne by supplier.
- 3- If during the aforesaid period of not less than one year, the said stores be discovered not to conform to the description and quality aforesaid not giving satisfactory performance or have deteriorated, the decision of the tender accepting authority in that behalf shall be final and binding on the supplier and the ADG PAC Headquarters, Lucknow shall be entitled to call upon the supplier to rectify and/or replace the stores or such portion thereof as it finds to be defective up to working life of equipments, or such specified period as may be allowed by the tender accepting authority in his discretion of application made thereof by the supplier and in such an event, the above period shall apply to the stores rectified and/ or replaced from the date of rectification; and/or replacement mentioned in warranty thereof. Otherwise the supplier shall pay to the UP PAC such compensations may arise by reasons of the warranty therein contained.
- 4- The firm/ agent submitting the tender should also specify the after-sales service, which will be provided.
The bidder shall quote AMC in percentage of their offer in technical bid (Comprehensive AMC) including manpower and spare parts except consumables of the materials to facilitate on-site timely support for next 03 years after completion of 1 year warranty period. The cost of AMC will not be included for calculation of L1.
- 5- The materials shall be latest and shall not meet end of life. OEM(s) shall ensure after-sales-support including availability of spare parts during warranty period and five-years thereafter while issuing authorization letter(s) for this bid.

SECTION-II CONDITIONS OF E-TENDER/ CONTRACT (CC)

1. Cost of e-Bid

This tender document is available on the web site <http://etender.up.nic.in> and UP Police website <http://uppolice.gov.in> to enable the bidders to view, download the e-Bid document and submits e-Bids online up to the last date and time mentioned in e-Tender notice/e-tender document against this e-Tender. The bidders shall have to pay e-Tender document fee (Table given below) of through of line payable in favour of Dy. Inspector General of Police PAC Headquarters Mahanagar Lucknow. The scanned copy of the Receipt of online through e-Tender portal must be enclosed along with the e-Bid. This e-tender document fee is non-refundable:-

Sl.	Name of Equipments	Tender Cost
1	2	3
1	THE SUPPLY OF EQUIPMENTS WITH INSTALATION FOR MODERNISATION / UPGRADATION OF CONTROL ROOM PAC HEADQARTERS	₹ 25,000/- + GST

2. Documents Constituting the e-Bid

The e-Bid prepared by the bidder shall comprise the following components:

- 1- **Technical e-Bid** - Technical e-Bid will comprise of:
- 2- **Fee Details** – includes copies of e-tender document processing Cost and Earnest Money Deposit (EMD) furnished in accordance with in PDF format.
- 3- **Qualification Details** – includes copies of required documents as per ITB Clauses 10 and 11 in PDF format justifying that the bidder is qualified to perform the contract if his/her bid is accepted and that the bidder has financial, technical and production capability necessary to perform the contract and meets the criteria outlined in the Qualification Requirement and Technical Specification and fulfill

all the conditions of the Contract and that the goods and ancillary services to be supplied by the bidder conform to the e-Bid document and Technical Specifications.

- 4- **Technical Specification Details** – includes copy of filled in Technical Specifications as per Section-III(C) of e-tender document in PDF format.
- 5- **Financial e-Bid** – Financial e-Bid will comprise of:
 - 1- **e-Bid Form** – includes copy of filled in e-Bid Form as per e-tender document in PDF format.
 - 2- **Price Schedule/BOQ** – includes Price Schedule/BOQ in XLS format to be filled in after downloading from the e-Procurement website for this e-tender.
3. **Period of Validity of e-Bid**
 - 1- e-Bid shall remain valid for 90 days after the date of e-Bid opening prescribed by the Purchaser, pursuant to ITB Clause 16. An e-Bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.
 - 2- In exceptional circumstances, the Purchaser may solicit the bidder's consent to an extension of the period of e-Bid validity. The request and the response thereto shall be made in writing. A bidder may refuse the request without forfeiting its e-Bid security. A bidder granting the request will not be required nor permitted to modify its e-Bid.
4. **Opening of Technical e-Bid by the Purchaser**

The Purchaser will open all technical e-Bids, in the presence of bidders' representatives who choose to attend at **11.30 A.M. on 26 February 2020** at PAC Headquarters, Mahanagar, Lucknow. The bidder's representatives who are present shall sign a register evidencing their attendance. In the event of the specified date of e-Bid opening being declared a holiday for the Purchaser, the e-Bids shall be opened at the appointed time and place on the next working day.
5. **Place of Delivery:**

Place of delivery shall be FOR destination. It shall be the supplier's responsibility to deliver at UP PAC HQ, Mahanagar, Lucknow-226006 at his own cost in full and good condition.
6. **Manner of Payment:**

Unless otherwise specified payments to the Tenderer will be transferred electronically to bank account.

The Tenderer shall be entitled to be paid from time to time by way of "On-Account" payment to the extent of 80% (**eighty percent**) of the rate in the accepted Bill of material against the quantity supplied by the tenderer and the balance **20% (twenty percent)** against the same shall be made after installation and testing of the concerned item or after completion of the works even the item is not being utilized due to appropriate reason and shall be kept as spare by consignee for future utilization.

SECTION III : TECHNICAL E-BID

III (A)	e-Bid FORM
III (B)	SCHEDULE OF REQUIREMENTS
III (C)	TECHNICAL SPECIFICATIONS
III (D)	QUALIFICATION REQUIREMENTS
III (E)	PERFORMANCE STATEMENT

SECTION III (A): e-Bid FORM

Date:
IFB No. :

To :
ADG,
PAC, Head Quarters, Mahanagar,
Lucknow

Dear Sir:

Having examined the e-Bid Documents, we, the undersigned, offer to supply and deliver *(Description of Goods and Services)* in conformity with the said e-Bid Documents and hereby undertake that we accept all the Conditions of the Contract (Section II) of the e-Bid Document and will supply of **THE SUPPLY OF EQUIPMENTS WITH INSTALATION FOR MODERNISATION / UPGRADATION OF CONTROL ROOM PAC HEADQARTERS** and onsite comprehensive warranty and other related items/materials as per the Technical Specifications (Section III(C)) of the e-Bid documents for **THE SUPPLY OF EQUIPMENTS WITH INSTALATION FOR MODERNISATION / UPGRADATION OF CONTROL ROOM PAC HEADQARTERS**. We further undertake that we fulfill the Qualification Requirements (Section III(D)) and for this purpose we enclose the details. In addition to this, the particulars of our organization such as legal status, details of experience and past performance, service support details, capability statement and the required e-Bid EMD for Dy. Inspector General of Police PAC Head Quarters Mahanagar Lucknow in the form of offline payment through **Demand Draft / FDR from Scheduled Bank**, pledged in favour of DIG, PAC Head Quarters, Mahanagar Lucknow is furnished with this e-Bid form.

Sl.	Name of Equipments	EMD	Yes/ No
1	2	3	4
1	THE SUPPLY OF EQUIPMENTS WITH INSTALATION FOR MODERNISATION / UPGRADATION OF CONTROL ROOM PAC HEADQARTERS	₹ 2,33,500/-	

We further undertake, if our e-Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements (Section III (B)).

If our e-Bid is accepted, we will obtain the performance guarantee of a bank in the form prescribed by the Purchaser for a sum equivalent to 10% of the Contract Price for the due performance of the Contract

We agree to abide by this e-Bid for the e-Bid validity period specified in Clause 13.1 of the ITB and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this e-Bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us. All the terms and conditions of the e-tender Document are acceptable to us.

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

Dated this day of 20.....

(Signature & Name of Official)

(in the capacity of)
Duly authorized to sign e-Bid for and on behalf of

SECTION III (B): SCHEDULE OF REQUIREMENTS

Item Code	Brief Description	Destination	Delivery Schedule	e-Bid EMD
	As per the details given in the SECTION III (C) TECHNICAL SPECIFICATIONS	UP PAC HQ, Mahanagar, Lucknow-226006	The Item shall be Delivered within 45 days from the date of issue of the purchase order. The pre dispatch inspection of the items shall be done by the Purchaser before delivery at final destination.	₹ 2,33,500/-

Sl. No.	Items	A/U	Qty.
(A)	Visual Systems Option		
(i)	Display Array (55" Panel for 2 Rows and 3 Columns)	Nos.	01
(ii)	65" LED Display	Nos.	03
(iii)	55" LED Display	Nos.	12
(iv)	98" LED Display	Nos.	01
(v)	Motorized LCD Monitor	Nos.	01
(B)	Audio Conferencing System		
(vi)	Ceiling Speaker	Nos.	08
(vii)	Line-array Column Speaker	Nos.	04
(viii)	Eight-channel Amplifier	Nos.	01
(ix)	Digital Signal Processor	Nos.	01
(x)	Touch Screen Programmable Remote Wall Controller	Nos.	01
(xi)	Wireless Handheld Microphone	Nos.	02
(xii)	Digital Chairperson Unit	Nos.	01
(xiii)	Digital Delegate Unit	Nos.	39
(xiv)	Digital Discussion Central Unit	Nos.	01
(C)	Control and Automation		
(xv)	Display Array Controller with Management Software	Nos.	01
(xvi)	Integrated AV Controller and Touch Panel	Nos.	01
(D)	Video Conferencing System		
(xvii)	Room Based Endpoint for Command Control Room	Nos.	01
(xviii)	Room Based Endpoint for ADG's Office and PAC Sectors and Zones.	Nos.	11
(xix)	Multi Conferencing Unit (MCU)	Nos.	01
(E)	Light Control		
(xx)	ePodium	Nos.	01
(xxi)	Wooden Podium	Nos.	01
(xxii)	PC Workstation	Nos.	05
(xxiii)	Laptop	Nos.	01
(F)	Cable and Others		
(xxiv)	Cable Manager	Nos.	07
(xxv)	Cables	Lots.	01
(xxvi)	Matrix Switch with Scaler	Nos.	01
(xxvii)	Splitter	Nos.	01
(xxviii)	Quad Viewer	Nos.	01
(xxix)	Video over Ethernet	Nos.	02
(xxx)	Wireless Router	Nos.	01
(xxxi)	PoE Switch	Nos.	01
(G)	Other Items		
(xxxii)	Equipment Rack	Nos.	01

(xxxiii)	MFD (Copy/Print/Scan)	Nos.	02
(xxxiv)	Printer	Nos.	03
(xxxv)	Wide-format Printer	Nos.	01
(xxxvi)	DTH Set Top Box	Nos.	04
(xxxvii)	Video Camera and Recorder	Nos.	01
(H)	GPS & GIS		
(xxxviii)	GIS Desktop Software	Nos.	01
(xxxix)	GPS-based Vehicle Tracking Device	Nos.	10
(I)	Power Supply		
(xl)	10 KVA Online UPS	Nos.	01
(xli)	3 KVA Online UPS	Nos.	01
(J)	SITC & Training		
(xlii)	SITC of above mentioned items	Jobs	01
(K)	HR Software (Furniture)		
(xliii)	As per the requirement of Site	Lots.	01

**SECTION III (C) TECHNICAL SPECIFICATION OF THE SUPPLY OF EQUIPMENTS
WITH INSTALATION FOR MODERNISATION / UPGRADATION OF CONTROL
ROOM PAC HEADQUARTER UTTAR PRADESH**

(A) Visual Systems Option

01. Display Array (2 Rows x 3 Columns)

Ser. No.	Specifications	
(a)	Screen Size	55 inch (Diagonal) or better
(b)	Panel Technology	IPS/VA
(c)	Native Resolution	Full HD (1920 x 1080 pixels) or better
(d)	Brightness	500 cd/m ² or nits or better
(e)	Native Contrast Ratio	1400:1 or better
(f)	Dynamic Contrast Ratio	4,00,000:1 or better
(g)	Aspect Ratio	16:9
(h)	Viewing Angle	178 degree (H) and 178 degree (V)
(j)	Response Time	8 ms or less
(k)	Guaranteed Operating Hour	24 hours
(l)	Orientation	Landscape & Portrait
(m)	Surface Treatment	Hard coating, Anti-glare
(n)	Inputs	HDMI; DVI-D; Display Port; USB 2.0; USB 3.0; RGB
(o)	Outputs	Display Port, Audio ,LAN (For Daisy Chain)
(p)	Control	RS-232C (In / Out); RJ45 In / Out and IR Receiver In
(q)	Bezel Width	0.9 mm (Top / Left / Bottom / Right) or less
(r)	Special Features	Temperature sensor; Energy saving, SNMP, WOL, Fail over, Built in memory & Quad core processor
(s)	Power	100V to 240V AC, 50Hz / 60Hz
(t)	Standard Certification	UL, FCC Class A, BIS and Energy Star 7.0
(u)	Accessories	Push pull wall mount OEM approved
(v)	OEM Office	OEM should have running office in India from last 03 years (Registration certificate required)
(w)	Service Centre	OEM direct service centre in UP to provide on-site service (Registration certificate required)

02. LED Display

Ser. No.	Specifications	
(a)	Screen Size	65 inch (Diagonal) or better
(b)	Panel Technology	IPS
(c)	Brightness	500 cd/m ² or nits better
(d)	Resolution	UHD (3840 x 2160 pixels) or better
(e)	Contrast Ratio	1000:1 or better
(f)	Dynamic Contrast Ratio	400,000:1 or better
(g)	Aspect Ratio	16:9
(h)	Viewing Angle	178 degree (H) and 178 degree (V)
(j)	Response Time	10 ms or less
(k)	Display Orientation	Landscape / Portrait
(l)	Operation Hours	24 hours
(m)	Inputs	HDMI; Display port; DVI-D; USB 3.0 and Audio
(n)	Outputs	Display port; Audio and External speaker out
(o)	External Control	RS232C; RJ45 and IR receiver
(p)	Special Features	Temperature sensor; Auto brightness sensor; Built-in Wi-Fi; Internal memory; USB cloning; PIP/PBP; Content scheduling and Fail over
(q)	Certification	UL, FCC Class A, BIS and EPA 7.0
(r)	Power	100V to 240V AC, 50Hz / 60Hz
(s)	OEM Office	OEM should have running office in India from last 03 years (Registration certificate required)
(t)	Service Centre	OEM direct service centre in UP to provide on-site service (Registration certificate required)

03. LED Display

Ser. No.	Specifications	
(a)	Screen Size	55 inch (Diagonal) or better
(b)	Panel Technology	IPS
(c)	Brightness	500 cd/m ² or nits better
(d)	Resolution	UHD (3840 x 2160 pixels) or better
(e)	Contrast Ratio	1300:1 or better
(f)	Dynamic Contrast Ratio	400,000:1 or better
(g)	Viewing Angle	178 degree (H) and 178 degree (V)
(h)	Response Time	10 ms or less
(j)	Inputs	HDMI;RS232C and Ethernet
(k)	Power	100V to 240V AC, 50Hz / 60Hz
(l)	Certifications	UL,FCC Class A ,BIS and EPA 7.0
(m)	OEM Office	OEM should have running office in India from last 03 years (Registration certificate required)
(n)	Service Centre	OEM direct service centre in UP to provide on-site service (Registration certificate required)

04. LED Display

Ser. No.	Specifications	
(a)	Screen Size	98 inch (Diagonal) or better
(b)	Panel Technology	IPS
(c)	Brightness	350 cd/m ² or nits better
(d)	Resolution	UHD (3840 x 2160 pixels) or better
(e)	Contrast Ratio	1300:1 or better
(f)	Dynamic Contrast Ratio	5,00,000:1 or better
(g)	Aspect Ratio	16:9
(h)	Viewing Angle	178 degree (H) and 178 degree (V)
(j)	Response Time	8 ms or less
(k)	Display Orientation	Landscape / Portrait
(l)	Operation Hours	24 hours
(m)	Inputs	HDMI; Display port; DVI-D; USB and Audio
(n)	Outputs	Display port; Audio and External speaker out
(o)	External Control	RS232C; RJ45 and IR receiver
(p)	Special Features	Temperature sensor; Auto brightness sensor; USB auto Playback; Built-in Wi-Fi; Internal memory; USB cloning; PIP/PBP (4); Content scheduling and Fail over, Built in SOC(Quadcore), SNMP Support
(q)	Certification	UL ,FCC Class A ,BIS
(r)	Power	100V to 240V AC, 50Hz / 60Hz
(s)	OEM Office	OEM should have running office in India from last 03 years (Registration certificate required)
(t)	Service Centre	OEM direct service centre in UP to provide on-site service (Registration certificate required)

05. Motorized LCD Monitor

Ser. No.	Specifications	
(a)	LCD Monitor Size	15.6 (Diagonal) or better
(b)	LCD Type	IPS
(c)	Panel	High definition or better
(d)	Brightness	250 cd/m ² or nits better
(e)	Material	Aluminum alloy brushed panel, matte silver LCD frame
(f)	Tilt Angle	0 to 60 degree
(g)	Interface	HDMI, VGA, USB and RJ45

(B) Audio Conferencing System

06. Ceiling Speaker

Ser. No.	Specifications	
(a)	Type	Coaxially mounted 165 mm (6.5 in) woofer with butyl rubber surround and 19 mm (¾ in) titanium coated diffraction-loaded tweeter
(b)	Frequency Range (- 10 dB)	75 Hz to 20 KHz
(c)	Power Capacity	150W Continuous Program
(d)	Transformer Taps	70 V and 100V (60W, 30W, 15W & 7.5W)
(e)	Nominal Sensitivity	89 dB SPL, 1 W @ 1 m
(f)	Max. SPL	107 dB at 1 m (3.3 ft)
(g)	Nominal Conical Coverage	110 degree
(h)	Enclosure	Backcan Formed steel Baffle/Rim, fire rated UL94V-0
(i)	Rated	UL2043, NFPA90 & NFPA 70
(j)	Full-range power limiting Overload Protection	Yes
(k)	Termination	Removable locking connector with screw-down terminals

07. Line-array Column Speaker

Ser. No.	Specifications	
(a)	System	8x2 inch Full-range drivers
(b)	Frequency Range (-10 dB)	80 Hz to 20 KHz
(c)	Coverage	Vertical 20 degree and Horizontal 150 degree
(d)	Transformer Taps	70 V and 100 V {60W, 30W, 15W}
(e)	Sensitivity	93 dB
(f)	Max. SPL	121 dB peak
(g)	Nominal Impedance	8 ohm
(h)	Power Capacity	600W peak
(i)	Enclosure	Fiberglass reinforced ABS cabinet and aluminum grille
(j)	Outdoor Capability	IP-55 rated

08. Eight-channel Amplifier

Ser. No.	Specifications	
(a)	Power per Channel	300 Watts at 4 ohms, 8 ohms, 70Vrms and 100Vrms
(b)	THD (at full rated power, 20Hz - 20kHz)	0.35%
(c)	Voltage Gain Max Level	34 dB
(d)	Damping Factor (20 Hz to 100 Hz)	>1000 or better
(e)	Digital Audio	8 Input Channels or better
(f)	Maximum Input Level (Low Amp Gain Mode)	+20dBu
(g)	DSP	Shall have on-board DSP features like limiters, input/output EQ, delay, crossover etc.
(h)	Cooling	Continuously variable speed forced air
(i)	Ports	2x digital audio bus RJ-45 port and 1xEthernet RJ-45 port for monitoring and configuration
(j)	Power Supply	100V - 240V (50/60 Hz)

09. Digital Signal Processor

Ser. No.	Specifications	
(a)	Inputs and Outputs	DSP with 10 analog MIC/Line inputs and 8 Analog outputs with 12 Control Inputs and 6 Logic Outputs for GPIO Integration
(b)	Architecture	Open architecture software configurable
(c)	AEC	8 floating channels with auto gain control and noise cancellation with speech sense engine
(d)	Inputs Gain	Nominal gain 0dB, electronically switchable up to +48dB (in +6dB steps)
(e)	Digital Audio Bus	48 Channels
(f)	Phantom Power	48V on all analog inputs
(g)	THD	<0.01% 20Hz to 20KHz, +10dBu output
(h)	Crosstalk	<-75dB
(j)	Maximum Output Level	+19dBu
(k)	Frequency Response	20Hz-20KHz (+0.5dB/-1dB)
(l)	Signal Processing	400 MHz
(m)	Control Port	1xEthernet port for monitoring and configuration
(n)	Features	Should have monitoring LED for COM, STAT, ERR and PWR and 1 no. Telephone interface

10. Touch Screen Programmable Remote Wall Controller

Ser. No.	Specifications	
(a)	Type	Should be from the same DSP OEM
(b)	Capability	Capable to control any DSP parameter and capable to create 'folders' for nested pages; Should have password protection
(c)	Power	48V DC or PoE powering
(d)	Display	Touch-Screen
(e)	Control In	1xRJ45 Ethernet connector to connect with DSP
(f)	Controls	Two buttons, rotary encoder and touch screen

11. Wireless Handheld Microphone

Ser. No.	Specifications	
(a)	System	Wireless microphone system with MHZ carrier frequency band
(b)	Audio bandwidth	35 - 20,000 Hz
(c)	THD at 1 kHz	<0.3% (Receiver); 0.7 % (Transmitter)
(d)	Signal-to-Noise	120 dB(A) (Receiver)
(e)	Modulation	Wideband FM
(f)	RF output power	10 or 50 mW
(g)	Sensitivity	6.3 dB V / -100 dBm
(h)	Features	Up to 16 pre-programmed frequencies within the same frequency band; Up to 48 simultaneous channels; Up to 14 hours operation with one single AA battery or better; Pilot Tone transmission to know the transmitter battery status; Receiver should have microphone level and line level output; Transmitter should have display to show the battery and LED to show the muted /unmuted status; Should have Microprocessor-controlled diversity and Infrared programmable

12. Digital Chairperson Unit

Minimum Required Specification
Supply of a digital desktop chairman microphone unit with chairman control buttons, 15” or longer gooseneck microphone with a super-cardioid capsule of frequency response 190 Hz – 14.5 KHz or better, 3.5 mm headphone output jack, RJ45 jacks and twin loudspeakers of frequency response 190 Hz – 14.5 KHz or better and S/N Ratio > 70 dB (A) or better with optional strain reliefs for flush mount installations with a digital signal processor limiter for audio signal part. Operating voltage shall be 35vDC to 52.8vDC. Maximum power consumption shall be 3.8W. Total harmonic distortion (THD) shall be a maximum of 0.03% at 50mW/16 Ohms or better

13. Digital Delegate Unit

Minimum Required Specification
Supply of a digital desktop delegate microphone unit with a 15” or longer gooseneck microphone with a super-cardioid capsule of frequency response 190 Hz – 14.5 KHz or better, 3.5 mm headphone output jack, RJ45 jacks and twin loudspeakers of frequency response 190 Hz – 14.5 KHz or better and S/N Ratio > 70 dB (A) or better with optional strain reliefs for flush mount installations with a digital signal processor limiter for audio signal part. Operating voltage shall be 35vDC to 52.8vDC. Maximum power consumption shall be 3.8W. Total harmonic distortion (THD) shall be a maximum of 0.03% at 50mW/16 Ohms or better

14. Digital Discussion Central Unit

Minimum Required Specification
Supply of a central control unit with integrated PC, inbuilt USB recording capability, Ethernet port for network connection and control through third party digital control systems, control software package that can be controlled using the front panel or can be accessed by connecting any VGA monitor, keyboard and mouse allowing fault monitoring and error diagnostics and full control over all delegate units and the audio and conference parameters including equalization, feedback suppression, microphone limiting, and conference modes and digital processor which shall supply 52.8vDC power and control data through a network bus for controlling up to 40 discussion units. The remote delegate units connected to the central control unit shall be hot-swappable during a conference. Audio frequency response shall be 100 Hz to 14 KHz and input voltage range shall be -18dBu to +18dBu (XLR In). Maximum output level shall be +10dBV with a signal-to-noise ratio of greater than 80 dB A-weighted at +18dBV. Total harmonic distortion (THD) shall be less than 0.01% A-weighted at +6dBV In and Out. Power consumption shall be 245W

(C) Control and Automation

15. Display Array Controller with Management Software

Ser. No.	Specifications	
(a)	Display Controller	To control one display array in a matrix of 2 Rows x 3 Columns with 6 x HDMI Inputs (FHD) and 6 HDMI Outputs (FHD)
(b)	Chassis	19 inch industrial rack mount 4U chassis
(c)	Output Resolution	Shall support min. 1920 x 1200 pixels
(d)	Processor	Quad Core Intel Xeon CPU
(e)	Memory	8 GB DDR4 2400 MHz or better UDIMM
(f)	HDD	500 GB and upgradable option of capacity
(g)	Networking	Dual Gigabit Ethernet + IPMI port
(h)	Power	Single power supply
(j)	OS	Windows 10 embedded Standard 64bit
(k)	Wall Management Software	
	Client & Server based Architecture	Supports multi-client / console for control the wall layouts
	Scaling and Display	Software shall enable user to display, multiple sources up to any size and anywhere on the display wall and the entire screen shall look like one continuous surface
	Capture Settings (Edit)	Crop, rotation, color settings of capture input
	Security	Ability to set users access security levels and Ability to assign locally or by connecting to LDAP

Remote Control	Wall shall be controlled from a remote PC through LAN
Auto Source Detection	Software shall support for auto source detection
Layout Management	Support for Video, RGB, DVI, Internet Explorer, desktop application and remote desktop monitoring layouts
Scenarios	Software shall be able to save and load desktop layouts from Local or remote machines
Layout Scheduler	All the layouts shall be scheduled as per user convince
Protocol	VNC support, Open XML API for platform monitoring and control
IP Streaming	IP video streams view in MPEG, H.264 formats
	IP streaming of video from remote clients to the Wall and the entire wall area of interest to remote clients
KVM Support	Keyboard, mouse control for VNC PCs and enable / disable keyboards and mouse controls
Short-cut Keys	Short cut keys supported for layout
Grid	Ability to use and edit grid and use it for attaching displayed sources
Miscellaneous	Ability to remove / restore each displayed source frame; Ability to add framing to each displayed source with static or scrolling text and Ability to add text window / banner and control all its font and background attributes

16. Integrated AV Controller and Touch Panel

Ser. No.	Specifications	
(a)	Controller	Programmable network 1xRU device to control AV equipment using multiple analog and digital formats
	Ports	8 configurable RS232 / RS422 / RS485 ports, 8 Relays, 8 IR, 8 Digital I/O ports, 1 USB program port and 1 RJ-45 Communication port
	Speed of Processor	1600 MIPS or better
	Memory	512 MB RAM or better
	Power Supply	12 V DC
	Enclosure	Metal with matte finish
(b)	Touch Panel	10 inch Touch Panel with Quad Core Processor
	Resolution	1280 x 800 pixels or better
	Brightness	400 Cd/m ² or better
	Contrast Ratio	700:1 or better
	Memory	2 GB SDRAM
	Communications	Ethernet, USB and Bluetooth
	Power	PoE
(c)	Certification	UL, FCC, CE and RoHS / WEEE compliant

(D) Video Conferencing System

17. Room Based Endpoint for Command Control Room

Ser. No.	Specifications	
	The proposed system must support PAL/equivalent with PTZ camera. The codec must be based on ITU standards & hardware based. No software-based solution will be accepted. All components of the VC system like Codec, Camera, Microphones and Cables should be supplied to complete the solution in single package from a single OEM	
(a)	Package	It should be equipped with Full HD Codec, Microphone, Full HD 1080p60 PTZ Camera and Remote-control system
(b)	Video Standards and Resolutions	It should support H.323 standards for communications.

		It should support interoperability and bandwidth saving using video compression like H.263+/, H.264 AVC/ H.264 High Profile or higher standards.
		It should support video resolutions like 1080p 60 fps, 1080p 30 fps, 720p 60 fps, 720p 30fps from day one.
(c)	Content Standards and Resolutions	It should support content sharing using standard based / H.239 & must also support audio from PC during content sharing. It should transmit both people and content simultaneously to the far end location It should be possible to push content/video wirelessly from PC onto displays via in built or additional content sharing device during a local presentation mode, a conference or P2P call. System shall have capability to generate dynamic access codes to keep the meeting secure Should allow to share the content on HDMI, Wirelessly, recorded content sharing and content on USB drive.
(d)	Audio Standards and Features	It should support G.711, G.728, G.729, G.722, G.722.1, G.723.1, AAC-LD or better It should support 20kHz or better bandwidth with crystal clear Audio Echo Cancellation, Control, Noise Cancellation and Voice Activity Detention
(e)	Video and Audio Inputs	1 x HDMI input for connecting main Full HD camera 1 x HDMI input to share FHD content from PC / Laptop / Document camera. 1 x USB to connect USB Camera, 1 x USB to share content from USB Drive, 1 x USB for Interactive Device for live annotation 2 x balanced Input or more to connect mic/ Line input. 1 x 3.5mm stereo line-in, 1 x USB Audio IN, 1 x HDMI Audio IN
(f)	Video and Audio Outputs	2 x HDMI/ DP output for connecting primary & secondary full high definition display. 2 x balanced Line Output and 1 x 3.5 mm stereo line-out, HDMI Audio out, USB Audio out
(g)	Other Interfaces	1 x 10/100/1000 LAN port USB for software upgrade and connecting external Device 2 x RS-232 mini-DIN 8-pin or equivalent
(h)	Camera	Solution shall include Professional grade Full HD Camera for Conferencing/Video Capture Applications. Must support 1080p60FPS from Day One The camera should support minimum 12 x optical zoom Horizontal range +/- 170°, Vertical range -30° to + 90° & minimum 200 camera presets Video Conference Camera and Codec should be controlled using same remote control and supplied by same OEM
(i)	Network Features	H.323 and SIP bandwidth up to 6 Mbps Support H.460 Should support DNS and NAT feature for calling on open network
(j)	Multisite Feature	System shall support Multi-site collaboration with H.323 videoconferencing in a single appliance. Quoted Product must be supplied with built in 4 way (1+3) multi party features from day one. Same hardware should be upgradable to (1+8) Multi Party Conferencing with optional license
(k)	Security	Media Encryption: H.235 Authenticated access to admin menus, web interface and telnet API
(l)	Other Standards / Features	Shall have built – in storage for recording. Device must Record the Audio/ Video and Presentation Content in Local meeting/ Off line Mode in full HD video resolution. System Shall Capture both local and remote participants and shared content during

		conference or meetings. Should support play back feature from same device. Recorded content must also be shared during live Call
(m)	Layout and Presence	System should support multi layout with 10 continuous presence
(n)	Accessories	Associated Cable for Connecting camera, Power and Microphone must be supplied with system

18. Room Based Endpoint for ADG's Office and PAC Sectors and Zons.

Ser. No.	Specifications	
	The proposed system must support PAL/equivalent with PTZ camera. The codec must be based on ITU standards & hardware based. No software-based solution will be accepted. All components of the VC system like Codec, Camera, Microphones and Cables should be supplied to complete the solution in single package from a single OEM	
(a)	Package	It should be equipped with Full HD Codec, Microphone, Full HD 1080p PTZ Camera and Remote-control system
(b)	Video Standards and Resolutions	It should support H.323 standards for communications.
		It should support interoperability and bandwidth saving using video compression like H.263+/++, H.264 AVC/ H.264 High Profile or higher standards.
		It should support video resolutions like 1080p 30 fps, 720p from day one.
(c)	Content Standards and Resolutions	It should support content sharing using standard based / H.239
		It should transmit both people and content simultaneously to the far end location
		It should be possible to push content/video wirelessly from PC onto displays via in built or additional content sharing device during a local presentation mode, a conference or P2P call. System shall have capability to generate dynamic access codes to keep the meeting secure
(d)	Audio Standards and Features	It should support G.711, G.728, G.729, G.722, G.722.1, G.723.1, AAC-LD or better
		It should support 20kHz or better bandwidth with crystal clear Audio
		Echo Cancellation, Control, Noise Cancellation and Voice Activity Detention
(e)	Video and Audio Inputs	1 x HDMI/USB input for connecting main FHD camera
		1 x USB Audio IN
(f)	Video and Audio Output	2 x HDMI/ DP output for connecting primary & secondary full high definition display.
(g)	Other Interfaces	1 x 10/100/1000 LAN port
		USB for software upgrade and connecting external Device
(h)	Camera	Solution shall include Professional grade Full HD Camera for Conferencing/Video Capture Applications. Must support 1080p from Day One
		The camera should support minimum 12 x optical zoom
		Horizontal range +/- 160°, Vertical range -30° to + 70° & minimum 128 camera presets.
		Video Conference Camera and Codec should be controlled using same remote control and supplied by same OEM
(i)	Network Features	H.323 bandwidth up to 2 Mbps
		Support H.460
		Should support DNS and NAT feature for calling on open network
(j)	Security	Media Encryption: H.235
		Authenticated access to admin menus, web interface and telnet API
(k)	Accessories	Associated Cable for Connecting camera, Power and Microphone must be supplied with system

19. Multi Conferencing Unit

Ser. No.	Specifications	
(a)	Hardware	The Multi Conferencing Unit (MCU) must be a dedicated hardware-based solution having the capacity of the processor of 16 Cores at 4 GHz; 8 GB of Memory; 500 GB of Disk Space
(b)	Capacity	The solution must support 15 Full HD ports from day 1. It must be scalable to support 25 HD ports on the same hardware by paying additional cost as and when required & without the need to add hardware and cascading.
		There must not be any artificial limits imposed in terms of number of conference rooms or number of concurrent conferences. Keeping future scalability into consideration, the number of concurrent conferences must be equal to at least the port capacity being asked for. Additionally, it should be possible to pre-assign at least 15 virtual Conference rooms dedicated for end users.
		It must be possible to see at least 15 sites simultaneously on the screen. The end points must have the capability to change their local video layout from remote control.
(c)	Resolution	The solution must support HD resolutions
(d)	Other components	The solution must support at least one standard based end points during multi conference
		The solution must include a management, scheduling, IM and Presence component(s) with capacity of at least 15 registered User from day 1. Same should be scalable up to 25 users by paying additional cost as and when required.
		It must be possible to have an Integrated presence-awareness feature that allows users to verify contact availability and status, and seamless enterprise directory integration which simplifies management and ensures contact list accuracy.
(e)	Protocols	The solution must support standard based Audio Video Codec system like H.264 and G.711
		The solution should support content sharing in HD resolution.
		It should support wide Audio bandwidth with crystal clear audio
		The system must support voice activated video & Far End Camera Control.
		Automatic Gain Control and AEC
(f)	Security	The solution must support secure and encrypted Communication
(g)	Interoperability	The solution must be interoperable with standards-based end points, even if they are from a different OEM.
		The solution must support both dial-in and dial-out of calls.
(h)	Other Features	Shall support BYOD Collaboration allowing participants to join a virtual session from multiple devices such as PCs, Handheld Mobiles and Tablets and other Standard based Video Conferencing Systems
		System should have Private and Public chat service. Same can be used for text-based Q & A during live video collaboration
		It should allow automatically bandwidth management so that participant with minimum bandwidth can also join the session
		It should be integrated into a single interface all services (voice, video, Chat and data sharing).
		Administrator will manage the video collaboration session, enabling and disabling the audio, video, file sharing, make changes online, allocate bandwidths, etc.
		Host rights must be interchangeable between the session participants.
		The minimum bandwidth per user from which all services must operate is 128 kbps
It should be able to modify the bandwidth without affecting the		

		stability of the session.
		It must have the ability to scale the number of concurrent users, unlimited software download from the server
		It must support multi-network communication and collaboration via TCP / IP networks
		Monitoring and control platform must Provide a powerful and elegant user interface on any browser from desktop to mobile
		Must Support Efficient batch firmware updates on multiple audio or video devices
		Must support Web server protocols: HTTP and HTTPS
		Support unified AV network management platform to monitor, control, and audit Pro Audio and Video products and services
		Must have scalability feature to support organizations of any size

(E) Light Control

20. ePodium

Ser. No.	Specifications	
(a)	Structure	All-in-one equipped with dual monitor consisting of one pen-touch monitor and one standard sub-display, screen writing software, integrated controller, gooseneck microphone, handheld wireless microphone, amplifier and speaker
(b)	Material	Upper board - Injected ABS and Lower part – Steel with powder coating
(c)	Style	Open / Close slider for upper board to protect built-in pen-touch monitor and to act as a stand for a notebook / laptop Shelf for keyboard Place of mouse on the upper board Equipped with movable wheels Built-in USB ports ready to be used by a laptop Built-in integrated network control system, amplifier and gooseneck microphone
(d)	Locking Device	For upper board and the front and back side of the lower part
(e)	Pen Touch Monitor	21.5 inch diagonal screen size; 1920x1080 pixels resolution; 250 cd/m ² brightness
(f)	Sub-display	10 inch or better LCD screen size; 1024x768 pixels resolution
(g)	Controller	Video In/Out; Audio In/Out; RJ-45 and AV system control ports (IR & RS232)
(h)	Control Keypad	3 inch Dot matrix LCD indicating the status of the controller
(i)	Microphone	1 x 40 cm length gooseneck microphone with cardioid polar pattern, 40 Hz to 16 KHz frequency range, 200 dB sensitivity and Phantom Powered
(j)	Amplifier	240 Watts total output power @ 4 ohms and 3 channel each for mic / line input
(k)	Wall-mount Speaker	2 nos. 30 – 150 Watts power at 8 ohm
(l)	Processor	Windows 10 preloaded; 500 GB HDD and 4 Gb RAM

21. Wooden Podium

Ser. No.	Specifications	
(a)	Size	4.13 feet (Height), 2.16 feet (Width) and 1.83 feet (Depth)
(b)	Top	Flat Desktop
(c)	Features	Floor access for cable management and Castors

22. Workstation PC

Ser. No.	Specifications	
(a)	Processor	Intel Core i5 (6 Core, 9 MB Cache, Up to 4.1 GHz)
(b)	Operating System	Microsoft Windows 10 Pro 64-bit
(c)	Graphics	Intel UHD Graphics 630
(d)	Memory	8 GB DDR4 at 2666 MHz
(e)	HDD	1 TB 7200 rpm SATA
(f)	Optical Drive	Tray load DVD-Drive
(g)	Interfaces	1 x VGA and 1 x HDMI, 2 x USB and 1 x LAN
(h)	Accessories	19.5 inch FHD Monitor, Keyboard and Mouse

23. Laptop

Ser. No.	Specifications	
(a)	Processor	Intel Core i5-8250U (6 MB Cache, Up to 3.40GHz)
(b)	Operating System	Microsoft Windows 10 Pro 64-bit
(c)	Video Card	Intel Integrated UHD 620
(d)	RAM	4 GB DDR4
(e)	HDD	1 TB
(f)	Interfaces	1 x VGA and 1 x HDMI, 2 x USB and 1 x RJ45
(g)	Display	14 inch HD Anti-glare display non-touch and Web-camera

(F) Cable and Others

24. Cable Manager

Ser. No.	Specifications	
(a)	System	Hydraulic open and close
(b)	Material	Steel and Aluminum
(c)	Connectivity	1 x Universal Power; 1 x RJ45; 1 x VGA; 1x 3.5mm Audio; 1 x HDMI and 1 x USB

25. Cables

Ser. No.	Specifications	
(a)	HDMI Cable	04 nos. (Molded)
(b)	Speaker Cable	90 meters
(c)	Microphone Cable	As per the requirement of Site
(d)	STP Cable	As per the requirement of Site
(e)	Power Cable & MCB	As per the requirement of Site

26. Matrix Switch with Scaler

Ser. No.	Specifications	
(a)	Video Input	4 x HDMI
(b)	Video Output	4 x HDMI
(c)	Data Rate	Up to 6.75 Gbps
(d)	Control	RS-232, IR and Ethernet
(e)	Housing	Metal

27. Splitter

Ser. No.	Specifications	
(a)	Video Input	1 x HDMI
(b)	Video Output	4 x HDMI
(c)	Data Rate	Up to 10.2 Gbps
(d)	Housing	Metal

28. Quad Viewer

Ser. No.	Specifications	
(a)	Video Input	4 x HDMI
(b)	Video Output	1 x HDMI

29. Video over Ethernet

Ser. No.	Minimum Required Specification	
(a)	Video Input	1xHDMI
(b)	Video Output	1xHDMI
(c)	Max. Resolution / Distance	1080p / 40 meter over Cat 6

30. Wireless Router

Ser. No.	Specifications	
(a)	Interfaces	1 x IEEE 802.11 ac/n/g/b/a Wireless LAN; 4 x Gigabit Ethernet LAN ports and 1 x Gigabit Ethernet WAN port
(b)	Data Signal Rate	2.4 GHz and 5 GHz
(c)	Security	WPA, WPA2 and WPS
(d)	Features	Quality of Service (QoS); Firewall-NAT and IPv6 ready

31. PoE Switch

Ser. No.	Specifications	
(a)	Number of Ports	8 x 10/100/1000BASE T and 2 x 100/1000 Mbps SFP ports
(b)	Switching Capacity	20 Gbps
(c)	Max. Forwarding Rate	14.44 Mbps
(d)	MAC Address Table Size	8K
(e)	PoE Standard	IEEE 802.3af and IEEE 802.3at
(f)	Power Budget	65 watts
(g)	Packet Buffer Memory	4.1 Mbits
(h)	CPU Memory	DDR3 128 MB
(i)	Power Input	100 to 240 V AC, 50/60 Hz

(G) Other Items

32. 22U Equipment Rack

Ser. No.	Specifications	
(a)	Structure	Steel Frame; lockable front glass door; caster wheels mounting
(b)	Width and Depth	600x600 mm
(c)	Features	Power Distribution and 19 inch Mounting Angles

33. MFD (Copy/Print/Scan)

Ser. No.	Specification	Parameters
(a)	Type	A3 Monochrome Multifunctional Device
(b)	Copy & Print Speed (A4)	20 ppm or better
(c)	Memory	512 MB or better
(d)	Copy / Print Resolution	Up to 600 x 600 dpi or better
(e)	Interface	Ethernet and WLAN and USB
(f)	Paper Input Source	1 cassette for 250-sheets and 1 x 80-sheets Multi-purpose Tray
(g)	Double-sided Printing	Automatic
(h)	DADF	Single-pass DADF
(i)	Power Supply	220 to 240 V AC, 50/60 HZ

34. Printer

Ser. No.	Specification	Parameters
(a)	Printing Method	Monochrome Laser Beam Printing
(b)	Print Speed (A4)	28 ppm or better
(c)	Print Resolution	Up to 600 x 600 dpi or better
(d)	Auto Duplex Print	Available
(e)	Paper Input	1 cassette for 250-sheets and 1-sheet Multi-purpose Tray
(f)	Interface	USB, Wired LAN and Wireless 802.11b/g/n
(g)	Memory	256 MB or better
(h)	Power Supply	220 to 240 V AC, 50/60 HZ

35. Wide-format Printer

Ser. No.	Specification	Parameters
(a)	Printing Technology	Inkjet
(b)	Type of Printing	Colour
(c)	Size	44" to A3
(d)	Print Resolution	2400 x 1200 dpi
(e)	Memory	128 GB
(f)	Hard Disk	500 GB or better
(g)	Print Cartridges	5 Color or better
(h)	Roll Handling Capacity	1 no.
	Interfaces	USB and Ethernet
	Power Supply	100 to 240 V AC, 50/60 HZ

36. DTH Set Top Box

Ser. No.	Specifications
(a)	As per the requirement of Site with 1 year Subscription

37. Video Camera and Recorder

Ser. No.	Specifications
(a)	Camera 1 / 2. 8" CMOS; 20x Optical Zoom; Up to 1080p60 Signal System; USB Video Output and RS232C, RS-485 Control Terminal
(b)	Recorder HDMI, Component Video and Audio and Microphone Input and HDMI Output and Internal/External Storage

(H) GPS & GIS

38. GIS Desktop Software

Ser. No.	Specifications
(a)	GIS Desktop Software The GIS Desktop Software shall let to integrate data from multiple sources and use powerful analytical tools to produce complex maps and reports

39. GPS-based Vehicle Tracking Device

Ser. No.	Specifications
(a)	GPS Vehicle Tracking Device The Vehicle Security Device shall use dual cameras to record everything happening inside and outside the vehicle. The device shall act as a strong deterrent against commonly-faced issues with drivers. It shall allow the user to be in charge of the vehicle by checking the driver's behavior related to various misuses. It shall ensure 100% security for the vehicle & passengers. The offer shall include 03 (Three) months free subscription and the user will renew the subscription and AMC afterwards as per requirement.

(I) Power Supply

40. 10-KVA On-Line UPS

Ser. No.	Specifications	
(a)	Phase	Single Phase with Ground
(b)	Capacity (Max.)	10,000 VA / 8,000 Watts
(c)	Input / Output Voltage	220/230/240 VAC
(d)	Input Voltage Range	180 to 300 VAC
(e)	Input Power Factor	< or = 0.99
(f)	Output Voltage	220/230/240 VAC
(g)	Output Current Crest Ratio	3:1
(h)	Waveform	Pure Sine Wave
(i)	No. of Battery Required	16 nos.(100 AH)
(j)	Battery Type	VRLA
(k)	Back-up Time	Approx. 01 hour

41. 3-KVA On-Line UPS

Ser. No.	Specifications	
(a)	Phase	Single Phase with Ground
(b)	Capacity (Max.)	3,000 VA / 2,400 Watts
(c)	Input / Output Voltage	220/230/240 VAC
(d)	Input Voltage Range	160 to 280 VAC
(e)	Input Power Factor	< or = 0.99
(f)	Output Voltage	220/230/240 VAC
(g)	Output Current Crest Ratio	3:1
(h)	Waveform	Pure Sine Wave
(i)	No. of Battery Required	03 nos.
(j)	Battery Type	VRLA
(k)	Back-up Time	Approx. 30 minutes

(J) SITC & Training

42. SITC of above equipments and Training to be provided to nominated personnel of PAC to operate the equipments

(K) HR Software (Furniture)

43. Furniture

Ser. No.	Specifications	
(a)		As per the requirement of Site.

Warranty: One year from the date of installation

SECTION III (D): QUALIFICATION REQUIREMENTS

1. The bidder should be a reputed original equipment manufacturer (OEM) or their authorized channel partner or their authorized system integrator specifically for Visual Display, Audio Conferencing System, Control and Automation, Video Conferencing System and GIS Software for Modernization / Upgradation of Control Room.
2. The bidder / OEM(s) shall have dedicated / toll free telephone number for service support and must provide escalation matrix of telephone numbers for service support.
3. The bidder should be registered in India under Companies Act, 1956 and have ISO 9001 Certifications and relevant documents for the equipments:

(A)

Sl. No.		Page No.
1.	Have you attached proof of registration under GST?	Yes / No
2	Have you attached undertaking for warranty not less one year ?	Yes / No
3	Have you attached Performance statement / compliance certificate, copy of supply orders & necessary Certificates from current/previous clients?	Yes / No
4.	Have you attached an affidavit on appropriate non judicial stamp paper that you :	
	(a.) Have not been declared bankrupt by any Institution or Government?	Yes / No
	(b.) Is not black listed by the Government or any other Organization for failure to pay any dues?	Yes / No
	(c.) Have not been adjudged by any court as insolvent or was not under any law for an offence involving moral turpitude or any criminal activities etc.?	Yes / No
5	Have you furnished your Permanent Income Tax and GST Account Number?	Yes / No
6	Have you mentioned rates of Excise duty & GST if quoted exclusively?	Yes / No
7.	The deliveries shall be executed within 45 days from the date of issuing order. Have you attached delivery schedule & its justification?	Yes / No
8	Have you attached full technical details, printed leaflets with full & detailed specifications of each item, Make, Model of proposed equipment?	Yes / No
9	Have you attached detailed specifications of accessories?	Yes / No
10	Have you attached copy of purchased/ downloaded tender document duly signed on each page?	Yes / No
11	Have you marked page numbers from beginning to end of your tender proposals?	Yes / No
12.	Have you made initials on each page of tender document?	Yes / No
13	Has Earnest Money deposit been enclosed? If not then supporting documents are submitted for exemption of Earnest Money.	Yes / No
14	Has the cost of tender been enclosed with the document if downloaded from website?	Yes / No
15	Has tenderer accepted the offer validity as required?	Yes / No
16	Has tenderer submitted Audited Balance sheet /CA Certificate of Previous three years.	Yes/No
17	Has tenderer submitted declaration to follow terms and conditions.	Yes/No
18	Has tenderer submitted details of manufacturer or if the tenderer is not the manufacturer, the tenderer should be authorized by the manufacturer for Display, Audio Conferencing System, Control System, Video Conferencing System and GIS Software specifically for this tender. A letter in this regard should be issued by the competent authority from the manufacturer's India Office for this tender.	Yes/No
19	Has tenderer submitted Certificate of Incorporation / Registration and ISO certificate ?	Yes/No

Signature of Tenderer _____

Address _____

(B)

ई-निविदा हेतु आवेदन-पत्र

सेवा में,

अध्यक्ष क्रय समिति /
अपर पुलिस महानिदेशक,
पीएसी मुख्यालय, महानगर,
उ०प्र०, लखनऊ।

महोदय,

मैंने सामान्य योजना के अन्तर्गत पीएसी हेतु स्वीकृत **THE SUPPLY OF EQUIPMENTS WITH INSTALATION FOR MODERNISATION / UPGRADATION OF CONTROL ROOM PAC HEADQARTERS** की आपूर्ति एवं इन्स्टालेशन किये जाने के सम्बन्ध में आपके स्तर से प्रकाशित निविदा सूचना दिनांकित-----का अध्ययन किया एवं उक्त उपकरणों की आपूर्ति हेतु निविदा प्रस्तुत कर रहा हूँ:-

क्र० सं०	उपकरण का नाम	कुल मात्रा	धरोहर राशि (EMD)	तकनीकी विशिष्टियां
1	2	3	4	5
1	THE SUPPLY OF EQUIPMENTS WITH INSTALATION FOR MODERNISATION/UPGRADATION OF CONTROL ROOM PAC HEADQARTERS	As per Bill of Material	₹ 2,33,500/-	तकनीकी विशिष्टियां इस आवेदन पत्र के साथ संलग्न की जा सकती हैं।

1. आपूर्ति हेतु प्रस्तावित उक्त उपकरण के लिए ई-निविदा में अंकित धनराशि रूपये ----- शब्दों में (रु०-----) धरोहर राशि के रूप में पुलिस महानिरीक्षक, पीएसी मुख्यालय, महानगर, लखनऊ के पक्ष में देय डिमाण्ड ड्राफ्ट/बैंकर चैक संख्या..... दिनांक.....संलग्न है।

2. प्रकाशित ई-निविदा सूचना में अपेक्षित मूल अभिलेख/परीक्षण हेतु उपकरण निविदा खुलने के उपरांत तकनीकी समिति के समक्ष प्रस्तुत करूँगा।

3. इस निविदा आवेदन पत्र के साथ संलग्न निविदा सूचना संख्या: ----- दिनांकित-----में क्रय हेतु प्रस्तावित उपकरण का विवरण तथा उपकरण से संबंधित नियम एवं शर्तों का गहनतापूर्वक अध्ययन कर लिया गया है तथा सभी शर्तें बिना किसी आपत्ति के स्वीकार हैं।

4. क्रय हेतु प्रस्तावित एवं निर्धारित स्पेसिफिकेशनयुक्त उपकरण की निविदा प्रस्तुत की जा रही है।

दिनांक:-

निविदादाता के हस्ताक्षर सील मुहर सहित
निविदा प्रस्तुत करने वाली फर्म का नाम
एवं आयकर/GST का पंजीकरण संख्या

(C)
DETAILS OF MANUFACTURER

1. Details of manufacturer.	
(a) Name :	
(b) Office :	
(i) Address :	
(ii) Telephone :	
Land line :	
Mobile :	
(iii) Fax :	
(iv) e-mail :	
(c) Works :	
(i) Address :	
(ii) Telephone :	
(iii) Fax :	
(d) Contact person including name of Head of Firm as well as of Board of Director	
(i) Name:	
(ii) Designation	
(iii) Telephone :	
Land line :	
Mobile :	
(iv) Fax :	
(v) e-mail :	
(e) supporting authorization documents (kindly attach)	
2. Details and Address of Subsidiary Office(s)	
3. In case of foreign firm, contact person in Delhi/ India	
(a) Name :	
(b) Address :	
(c) Name of company :	
(d) Telephone : Land Line : Mobile :	
(e) e-mail :	
(f) Fax :	
(G) Certificate of authorized distributor/dealer (kindly attach)	
4. Please confirm that you have offered packing as per tender enquiry requirements. If not indicate deviations	
5. Gross weight of consignment. (Net weight of each item)	
6. PAN Confirm whether you have attached photocopy of PAN Card duly attested.	
7. Status	
(a) Indicate whether you are LSU or SSI.	
(b) Are you registered with DGS&D for the item quoted? If so, indicate whether there is any monetary limit on registration	
(c) If you are a Small Scale Unit registered with NSIC under Single Point Registration Scheme, whether there is any monetary limit.	
(d) In case you are registered with NSIC under Single Point Registration Scheme for the item quoted, confirm whether you have attached an attested photocopy of the registration certificate indicating the items for which you are registered.	
8. Banker :-	
(a) Name :	
(b) Address :	
(c) Telephone :	

(d) e-mail :	
(e) Fax :	
9. Business name and Constitution of the firm. Is the firm registered under :-	
(i) The Indian Companies Act, 1956	
(ii) The Indian Partnership Act, 1932. (Please also give name of partners)	
(iii) Any Act; if not, who are the owners. (Please give full names and address.)	
10. Whether the tendering firm is Manufacturer of the store specified in the tender.	
11. (a) If stores offered are manufactured in India, please state whether all the raw materials, components etc used in their manufacturing are also produced in India. If not give details of materials components etc, that are imported and their breakup of the Indigenous and Imported components together with their value and proportion it bears to the total value of the store should also be given.	
(b) Authorized Dealers/Distributors to specify the details of indigenous and imported material with their value.	
12. State whether raw materials are held in stock sufficient for the manufacture of the stores.	
13. Please indicate the stocks in hand at present time.:	
i) Held by you against this Enquiry.	
(ii) Held by M/s. _____ over which you have secured an option	
14. Do you agree to Sole Arbitration by Secretary Ministry of Home Affairs or by some other person appointed by him as provided in Clause 24 of the General Conditions of Contract form DGS&D-68 (Revised) (Your acceptance of non-acceptance of this clause will not influence the decision of the tender. It should, however, be noted that an omission to answer the above question will be deemed as an acceptance of the Clause).	
15. For Partnership firms state whether they are registered or not registered under Indian Partnership Act, 1932. Should the answer to this question by a Partnership firm be in the affirmative, please state further :-	
(a) Whether by the partnership agreement, authority to refer disputes concerning the business of the partnership to arbitration has been conferred on the partner who has signed the tender.	
(b) If the answer to (a) is in the negative, whether there is any general power of attorney executed by all the partners of the firm authorizing the partner who has signed the tender to refer dispute concerning business of the partnership to arbitration.	
(c) If the answer to either (a) or (b) is in the affirmative, furnish a copy of either the partnership agreement or the general power of attorney as the case may be	
N.B.: (1) Please attach to the tender a copy of either document on which reliance is placed for authority of partners or the partner signing the tender to refer disputes to arbitration. The copy should be attested by a Notary Public or its execution should be admitted by Affidavit on a properly stamped paper by all the partners.	
(2) Where authority to refer disputes to arbitration has not been given to the partner signing the tender the tenders must be signed by every partner of the firm	
16. Here state specifically:	
(i) Whether the price tendered by you is to the best of your knowledge and belief, not more than the price usually charged by you for stores of same nature/class or description to any private purchaser either foreign or as well as Govt. purchaser. If not state the reasons thereof if any. Also indicate the margin of difference.	
(ii) In respect of indigenous items for which there is a controlled price fixed by law, the price quoted shall not be higher than the controlled price, and if the price quoted exceeds the controlled price the reasons thereof should be stated.	
17. Are you.	
. (i) Holding valid Industrial Licence(s)/Registration Certificate under the Industrial Development and Regulation Act, 1981. If so, please give particulars of Industrial Income Registration Certificate.	

(ii) Exempted from the licensing Provision of the Act for the manufacture of item quoted against this tender. If so, please quote relevant orders and explain your position.	
(iii) Whether you possess the requisite license for manufacture of the stores and/or for the procurement of raw materials belonging to any controlled category required for the manufacture of the store? In the absence of any reply it would be assumed that no license is required for the purpose of raw materials and/or that you possess the required license.	
18. State whether business dealings with you have been banned by Min./Deptt. of Supply/Min. of Home Affairs?	
19. Have your Firm ever been black listed or debarred by any Govt or Semi Govt or Autonomous bodies.	
20. Please confirm that you have read all the instructions carefully and have complied with them accordingly.	
21. Sale Tax office Address.	
22. Details of last income Tax return (Enclose copy)	
23. Name and details of Authorized Person detailed For dealing this case with PAC for this Tender (Photo Copy of I-Card to be attached)	
24. Change the name of the firm, if any, since origin, with date and reasons there of :	
25- Details of FIR/ complaint lodged against your firm with police, if any.	
Signature of witness	Signature of Tenderer
Full name (Block letters) Address:-	1-Full name (Block letters) 2- Address:-
	(2) Whether signing as Proprietor/ Partner/ Constituted Attorney/ duly authorized by the Company.

N. B. Tenderers should furnish specific answers to all the questions. Tenderers may please note that if the answers so furnished are not clear and/ or are evasive, the tender will be liable to be ignored.

Signature of Tenderer
Date with stamp
Name of Tenderer

SECTION III (E) : PERFORMANCE STATEMENT FORM

Performa for Performance Statement (for a period of last three financial years)

Name of Company/Firm.....

1	2	3	4	5	6	7	8	9
Contact Nos	Description of stores	Quantity of order	Value	Original Delivery Period	Qty. supplied within original Delivery Period	Final Ext. Delivery Period	Last Supply position	Reasons for delay in supplies (if any)

Signature and Seal of the E-Bidder
With name of the authorized person

SECTION-IV : FINANCIAL e-BID

- | | |
|-------|--------------------|
| IV(A) | e-Bid FORM |
| IV(B) | PRICE SCHEDULE/BOQ |

SECTION IV (A): e-Bid FORM

Date:
IFB No.

TO: (Name and address of Purchaser)

Dear Sir,

Having examined the e-Bid Documents, we, the undersigned, offer to supply and deliver..... (Description of Goods and Services) inconformity with the said e-Bid Documents for the rates as may be ascertained in accordance with the Schedule of rates attached herewith and made part of this e-Bid, and hereby undertake that we accept all terms and the conditions of the contract (section II) of the e-Bid Document and will supply the **THE SUPPLY OF EQIPMENTS WITH INSTALATION FOR MODERNISATION / UPGRADATION OF CONTROL ROOM PAC HEADQARTERS** as per the Technical Specifications (Section III(C)) of the e-Bid documents. We further undertake that we fulfill the qualification requirement (Section III(D)) and for this purpose we enclose the details. In addition to this, the particulars of our organization such as legal status, principal place of business, details of experience and past performance, service support details, capability statement and the required e-Bid security in the form of Online through e-Tender portal, pledged in favour of Inspector General of Police, PAC Head Quarters, Lucknow are furnished with this e-Bid form.

We further undertake, if our e-Bid is accepted, for supply, installation of equipment, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements (section III (B)).

If our e-Bid is accepted, we will obtain the performance guarantee of a bank in the form prescribed by the Purchaser for a sum equivalent to 10% of the Contract Price.

We agree to abide by this e -Bid for the e-Bid validity period specified in Clause 13.1 of the ITB and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

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

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

Dated this day of 20.....

(Signature & Name of Official)

(In the capacity of)
Duly authorized to sign e-Bid for and on behalf of

SECTION IV (B): PRICE SCHEDULE / BOQ

Note: Evaluation for bids shall be done schedule wise based on total bid price (Including GST), received for all items for that schedule

Validate

Print

Help

Item Wise BoQ

Tender Inviting Authority: ADG, PAC UP, Mahanagar, Lucknow .

Name of Work: Supply of THE SUPPLY OF EQIPMENTS WITH INSTALATION FOR MODERNISATION / UPGRADATION OF CONTROL ROOM PAC HEADQARTERS

Contract No: PAC-III-402-2019

Name of the Bidder/
Bidding Firm /
Company :

PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBE R	NUMBER #	NUMBER	NUM BER	NUMBE R #	NUMBE R #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units	Estimated Rate in Rs. P	BASIC RATE In Figures To be entered by the Bidder in Rs. P	Excise Duty in Rs. P	GST in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT With Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	6	13	14	15	53	54	55
1	Display Array (55" Panel for 2 Rows and 3 Columns)		01	Nos	0.00				0.00	0.00	INR Zero Only
2	65" LED Display		03	Nos							
3	55" LED Display		12	Nos							
4	98" LED Display		01	Nos							
5	Motorized LCD Monitor		01	Nos							

6	Ceiling Speaker		08	Nos							
7	Line-array Column Speaker		04	Nos							
8	Eight-channel Amplifier		01	Nos							
9	Digital Signal Processor		01	Nos							
10	Touch Screen Programmable Remote Wall Controller		01	Nos							
11	Wireless Handheld Microphone		02	Nos							
12	Digital Chairperson Unit		01	Nos							
13	Digital Delegate Unit		39	Nos							
14	Digital Discussion Central Unit		01	Nos							
15	Display Array Controller with Management Software		01	Nos							
16	Integrated AV Controller and Touch Panel		01	Nos							
17	Room Based Endpoint for Command Control Room		01	Nos							
18	Room Based Endpoint for ADG's Office and PAC Sectors and Zones.		11	Nos							
19	Multi Conferencing Unit (MCU)		01	Nos							
20	ePodium		01	Nos							
21	Wooden Podium		01	Nos							
22	PC Workstation		05	Nos							
23	Laptop		01	Nos							
24	Cable Manager		07	Nos							
25	Cables		01	Lots							

26	Matrix Switch with Scaler		01	Nos							
27	Splitter		01	Nos							
28	Quad Viewer		01	Nos							
29	Video over Ethernet		02	Nos							
30	Wireless Router		01	Nos							
31	PoE Switch		01	Nos							
32	Equipment Rack		01	Nos							
33	MFD (Copy/Print/Scan)		02	Nos							
34	Printer		03	Nos							
35	Wide-format Printer		01	Nos							
36	DTH Set Top Box		04	Nos							
37	Video Camera and Recorder		01	Nos							
38	GIS Desktop Software		01	Nos							
39	GPS-based Vehicle Tracking Device		10	Nos							
40	10 KVA Online UPS		01	Nos							
41	3 KVA Online UPS		01	Nos							
42	SITC of above mentioned items		01	Jobs							
43	As per the requirement of Site		01	Lots							
Total in Figures									0.00	0.00	INR Zero Only
Quoted Rate in Figures				Select		%			0	0	Zero Only
Quoted Rate in Words									INR Zero Only		

Note – The L-1 bidder shall be selected Schedule wise.