

**INVITATION OF TENDERS for  
PACKAGE IV -SUPPLY, INSTALLATION, TESTING AND  
COMMISSIONING OF  
AV SYSTEMS WORKS FOR PHASE II CONSTRUCTION OF  
PROPOSED PERMANENT CAMPUS OF  
INDRAPRASTHA INSTITUTE OF INFORMATION  
TECHNOLOGY DELHI AT OKHLA-III, DELHI**



INDRAPRASTHA INSTITUTE of  
INFORMATION TECHNOLOGY **DELHI**



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**MANAGEMENT**

**Last date of submission: 9<sup>th</sup> Jan 2017 before 1600 Hrs**

**INDRAPRASTHA INSTITUTE OF INFORMATION TECHNOLOGY DELHI  
Okhla Phase III New Delhi**

Every care has been taken while preparing this document to cover all necessary information, matters, specifications, general conditions, special conditions & provisions for smooth and complete execution of works. However, in case of any omission in the tender/ contract document, the most recent version (as on 31<sup>st</sup> December 2014) of general conditions of contract for CPWD Works, 2014 shall be the reference manual.

***Summary of Scope of work***

This tender is invited for the Supply, Installation, Testing and Commissioning of AV Systems for Phase II Construction of Proposed IIITD Delhi at Delhi.

Site is located at Okhla Phase III New Delhi.

Total area of the site is approximately 25 acres ("Site").

The built-up area of second phase for which this tender is invited will be of approximately 70,000sqmt.

The AV systems comprising of Sound reinforcement, Video Projection & Presentation System are to be provided in the three-stepped lecture halls, four classrooms and one senate room at the Campus as per details provided in the drawings details specifications and BOQ attached hereto.

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## SECTION 1

### TECHNICAL PART

#### INFORMATION & INSTRUCTIONS TO TENDERERS FOR TENDERING

**NAME OF WORK:** Supply, Installation, Testing and Commissioning of AV Systems for Phase II Construction at Permanent Campus of IIITD at Delhi.

Estimated Cost	Rs 2.4 Crores
Earnest Money	Rs. 4.8 Lakhs
Performance Guarantee	5% of Tendered Value. (50% of the PBG will be released after completion of work and balance 50% after successful completion of Defects Liability Period as part of SD will be released on satisfactory completion of the works certified by Competent Authority).
Security Deposit	2.5% of Tendered Value (SD will be released after successful completion of the Defects Liability Period)
Tender Processing Fee	Rs. 2000/- (Two Thousand Only)
Time Allowed	12 Months ( as per agreed schedule )
Date of Uploading Notice Inviting Tender	19th Dec 2016
Pre-bid Meeting	23 <sup>rd</sup> Dec 2016 at 1130 Hrs in the Boardroom, Indraprastha Institute of Information Technology Delhi, at Okhla Phase -III New Delhi-110020
Last Date of Submission of Tender Date & Time	On 9 <sup>th</sup> Jan 2017 upto 1600 Hrs in the office of Registrar/Chief Engineer Indraprastha Institute of Information Technology Delhi, at Okhla Phase -III New Delhi-110020
Date & Time of Opening of Tender Eligibility Documents	On 9 <sup>th</sup> Jan 2017 at 1630 Hrs in the office of Indraprastha Institute of Information Technology Delhi, at Okhla Phase -III New Delhi-110020

#### General Information:

- (1) The Bid documents consisting of drawings, specifications, schedule of quantities of the various classes of work to be done and the set of terms & conditions of contract to be complied with and other necessary documents can be seen on the website of at <https://www.iiitd.ac.in/tenders>
- (2) Tenderers should send all their queries by email, at least 24 hours before Pre-bid meeting to project manager on project office [admin-project@iiitd.ac.in](mailto:admin-project@iiitd.ac.in) The tenderers' authorized representatives are advised to attend the Pre-bid meeting. In response to the queries and clarifications sought by the tenderers during the Pre-bid meeting, certain modifications/clarification may be issued to all tenderers by the project manager, as may be deemed necessary through an Addendum and not through the minutes of the Pre-bid meeting and will be uploaded on website hosting the tender document and will become part of the Bid document. No separate communication in this regard shall be sent to the individual tenderers. Tenderers are advised to periodically check the website hosting the tender for any addendum until 2 days before the last date of submission of the tender.
- (3) The Envelope containing the Eligibility documents (which essentially covers the eligibility criteria) shall be opened first on due date and time as mentioned above. The time and date of opening of the Priced BOQ of tenderer's qualifying the tender eligibility criteria shall be communicated to them at a later date.

- (4) Tenderers are advised to ensure that they have submitted all requisite documents as per the list given in the table below. A checklist in this regard as per Form K is to be completed and signed and sealed and submitted along with the covering letter of the tender documents.

1	Check list of documents submitted by tenderer (Form K)
2	Affidavit declaring site visit (Form L)
3	Certificate of financial turnover (Form A)
4	Bank solvency certificate (Form B)
5	Certificates of Works Experience (Form C, D & E).
6	Structure & Organization (Form F).
7	Details of Technical & Administrative Personnel (Form G).
8	Details of work Equipments (Form H).
9	Affidavit for "no back to back award of Work" (Form I).
10	List of similar past Works and performance on such works.

## NOTICE INVITING TENDER

Item rate tenders are invited by the Indraprastha Institute of Information Technology, Delhi (IIITD/Owner) from the eligible contractors in two-envelope system for Supply, Installation, Testing and Commissioning of AV Systems works for Phase II Construction at Proposed Permanent Campus of IIITD at Delhi.

1. Name of the Work: "Supply, Installation, Testing and Commissioning of AV Systems Works for (Phase II) Construction at Proposed Permanent Campus" of IIITD at Delhi,
  - (i) The estimated cost of Work is Rs.2.4 Crores (Rupees Two crores and forty lacs only).
  - (ii) Intending tenderers are advised to ensure that they meet the minimum prequalification as well as technical eligibility criteria as per the detailed terms and evaluation parameters enumerated in this document before they submit their tender documents.
2. The Project Construction is targeted for 3/4 Star GRIHA Rating. In order to secure these ratings, a high degree of responsibility and cooperation is necessary from the contractors. All materials and systems used in the project are intended to maximize energy efficiency for operation of Project throughout service life (substantial completion to ultimate disposition – reuse, recycling, or demolition/dismantling) with an emphasis on top quality. Materials and systems are to maximize environmentally-benign construction techniques, including construction waste recycle, reusable delivery packaging, and reusability of selected materials. All vendors / contractors must adhere to best practices related to Green Buildings. Nothing extra on this account shall be payable.  
An agreement shall be executed by and between the IIITD and the successful tenderer for the "Supply, Installation, Testing and Commissioning of AV Systems works for Phase II Construction of IIITD Campus," in the given format as per the terms and conditions stipulated in the tender documents. The rates shall be quoted by the tenderer as per various terms and conditions of this document, which shall form part of the agreement.
3. The time allowed for carrying out the Work shall be 12 months from the date of initiation as defined in Schedule –F or from the first date of handing over of the Site, whichever is later. **The works are to be carried out in coherence with the ongoing works and no extra will be paid for delays on such account. The agency will coordinate with other agencies for execution of the works. The parts of the works may require to be taken up separately in different areas based on a mutually agreed schedule.**
4. The Site shall be handed over to the successful tenderer at the time of award of contract on "as is where is" basis. The works have to be coordinated with existing vendors at site or any other works in progress. The works are to be proceeded with in coordination and in coherence with the other agencies working at site. No extra claims on account of any delays on such account shall be entertained.
5. The tender documents consisting of drawings, specifications, schedule of quantities of the work to be done and the set of terms & conditions of contract to be complied with and other necessary documents can be seen on the website of IIITD at <https://www.iiitd.ac.in/tenders>
6. Intending Bidders are instructed to pay a fee of Rs. 2,000/- (Rupees Two thousand only) as Bid Processing Fee in the form of Demand Draft/Pay order of any Scheduled Bank drawn in favor of **IIIT Delhi Collections** The original instrument shall be placed in a sealed Envelope 1 along with EMD while submitting the Bid.
7. Earnest Money Deposit (EMD) shall be accepted only in the form of Demand Draft or Pay Order or drawn in favor of **IIIT Delhi Collections**, from any Scheduled bank/FDR of a scheduled Bank/ BG

as detailed below, and place the original instrument in sealed Envelope 1 along with their Tender at project office of IIITD.

8. Alternatively, a part of the EMD is acceptable in the form of bank guarantee. In such case, Rs 2.4 lacs (Rupees two lacs forty thousand only) (50% of total EMD) of the EMD shall have to be deposited in the form of Demand Draft or Pay order or Banker`s Cheque drawn in favor of **IIIT Delhi Collections**, and balance in the form of Bank Guarantee of any Scheduled bank, which is to be submitted by the intending tenderers at project office of IIITD along with their tender. The bank guarantee shall be in the format as prescribed in this document.
9. The tender shall be accompanied with the following documents:
  - 9.1 Tender Processing Fee along with EMD shall be placed in a **sealed Envelope 1** superscripted as **“Earnest Money and Cost of Tender Processing Fee”** with name of Work and due date of opening of the tender also mentioned thereon.
  - 9.2 Copy of certificate of work experience and other documents as specified shall be submitted within the period of tender submission a **sealed Envelope 2** marked as **"Eligibility Documents"**.
  - 9.3 Bill of quantities (in duplicate) and other relevant commercial information(tender) duly filled and compiled with rates, amounts, totals and signed by authorized signatory shall be placed separately in a sealed Envelope 3. Envelope 3 shall be super scribed as **“Priced BOQ”** and opened only after tenderer`s eligibility to participate in the tender is successfully established and accepted by IIITD.
  - 9.4 All the three envelopes shall be placed in a **large sealed envelope** marked as **“Tender”** with due mention of Name of work, date and time of opening of tender. The large sealed envelope shall be submitted in the project office of IIITD up to 1600 hrs on 9<sup>th</sup> Jan 2017. The tender Eligibility documents submitted in Envelope 2 shall be opened at 1630 Hrs on the same day. The large sealed envelope shall be addressed to the Registrar, INDRAPRASTHA INSTITUTE OF INFORMATION TECHNOLOGY DELHI.
  - 9.5 Tender Eligibility documents submitted by intending tenderers in Envelope 2 of only those tenderers shall be opened, whose Earnest Money Deposit and Tender Processing Fee and other documents placed in the Envelope 1 are found in order.
  - 9.6 Opening of Tender shall be in the following sequence:
    - i. EMD and Tender Processing Fee of which original instruments are placed in Envelope 1 ;
    - ii. Eligibility documents which are placed in Envelope2 ;
    - iii. Priced BOQ of the tender of which is placed in Envelope 3, to be open only for the tenderers fulfilling necessary eligibility criteria per this tender document. This date would be communicated to the eligible shortlisted bidders.
10. The tender submitted shall become invalid and Tender Processing Fee shall be forfeited if:
  - (i) If the originals instruments of the Tender Processing Fee or/and EMD amount submitted by the Tendered is/are not as per the formats prescribed in the Tender documents or
  - (ii) if the tenderers are found ineligible as established through the Eligibility Criteria; or
  - (iii) if the tenderers fail to submit all the documents (Including Service Tax Registration/ VAT Registration/ Sales Tax Registration) as stipulated in this tender document.
11. The tenderer whose tender is accepted, will be required to furnish performance guarantee for an amount equal to 5% (Five Percent) of the tendered amount within the period specified in Schedule F. The performance guarantee shall be in the form of Guarantee Bonds/Bank Guarantee of any Scheduled bank in accordance with the format prescribed herein. In case the tenderer fails to deposit the requisite performance guarantee within the period as indicated in Schedule F including the extended period if any, the EMD furnished by the tenderer shall be forfeited without any further notice to the tenderer.

12. Intending tenderers must inspect and examine the Site and its surroundings and satisfy themselves before submitting their tenders as to the form and nature of the Site, the means of access to the Site, the accommodation as may be required and in general, shall obtain all necessary information as to the risks involved, contingencies and other circumstances which may have a bearing or influence or affect the decision of submission of tender.
13. A tenderer shall be deemed to have full knowledge of the Site whether or not an inspection has been undertaken by the tenderer and no revision in the amount quoted in the tender shall be permitted on account of not having inspected the Site or any misunderstanding thereto. The tenderer shall be responsible for arranging and maintaining cost all materials, tools & plants, water, electricity, access, facilities for workers and all other services required for executing the Work unless otherwise specifically provided for in this document and/or the agreement and/or any other letter, circular, notification issued or document released by IIITD. No extra for lack of knowledge of site shall be paid.
14. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made itself aware of the scope and specifications of the Work to be executed and of conditions and local conditions and other factors having a bearing on the execution of the Work. Tenderer shall submit the Affidavit for Site Visit in the form as prescribed in FORM "L".
15. Owner is not bound to accept the lowest or any other tender and reserves to itself the right to reject any or all the tenders received without assigning any reason thereof. All tenders in which any of the prescribed conditions are not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be rejected summarily. Tenders subject to any conditions proposed by the tenderer shall not be accepted and shall be liable to be rejected.
16. Canvassing either directly or indirectly, in connection with tender is strictly prohibited and the tenders submitted by the tenderers who resort to canvassing shall be liable to be rejected.
17. Owner reserves the right of accepting the whole or any part of the tender and the tenderers shall be bound to perform the same at the quoted rate.
18. The tenderer shall intimate the names of persons who are or were working in any capacity with the tenderer or are subsequently employed by the tenderer and who are or have been an officer in IIITD.
19. The tender for the Work shall remain open for acceptance for a period of 120(One hundred twenty days) from the date of opening of the Priced BOQ. In case any tenderer withdraws its tender before the end of ninety days or issue of letter of acceptance, whichever is earlier, or makes such modifications in the terms and conditions of the tender which are not acceptable to the Owner, then the Owner shall, without prejudice to any other right or remedy available under the contract or law, be at liberty to forfeit 50% of the EMD. Further, such tenderer shall be barred from participating in the re-tendering process of the Work.
20. This notice-inviting Tender shall form a part of the agreement and shall be read and construed accordingly. The successful tenderer, on acceptance of its tender by the Owner, shall within 15 days from the stipulated date of initiation of the Work, execute an agreement consisting of: -
  - i Articles of Agreement
  - ii The Invitation To Bid
  - iii General & Special / Additional conditions
  - iv Specifications
  - v Schematic drawings
  - vi Addendums and corrigendum, if any, forming the Bid, and
  - vii Acceptance thereof together with any correspondence leading thereto.
  - viii Priced BOQ
  - ix Integrity Agreement



## INTEGRITY AGREEMENT

The tenderer shall be required to physically submit a set of documents in the office of Registrar/CE, IIITD. In order to maintain transparency and integrity in the process of awarding contract, it is essential for IIITD and tenderers to agree and abide by certain principles and policies. IIITD and tenderers agree to following:

- (i) IIITD shall remain committed to follow the principles of transparency, equity and competitiveness in public procurement;
- (ii) The Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the tenderer shall sign the Integrity Agreement, which is an integral part of tender/tender documents, failing which the tenderer will stand disqualified from the tendering process and the tender of the tenderer shall be liable to be rejected summarily.
  - a. The tenderers agree and acknowledge that the NIT is an invitation to offer made on the condition that the tenderers shall sign an Integrity Agreement in the format as provided for in this document. Such Integrity Agreement shall form an integral part of the tender documents. Any failure on the part of any tenderer to execute the Integrity Agreement shall render such tenderer disqualified from the tendering process. The tenderer agree and acknowledge that bidding for the Work as envisaged in this document shall be regarded as an unconditional and absolute acceptance of the condition of executing the Integrity Agreement.
  - b. The tenderers acknowledge, agree and confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the Integrity Agreement shall be separate and distinct from the main agreement, which shall come into existence once tender is finally accepted by IIITD. The tenderers acknowledge and accept the tenure of the Integrity Agreement, which shall be in the line with Article 6 (Duration of the Pact) of the format of Integrity Agreement as prescribed herein.
  - c. The tenderers acknowledge that in the event of failure to sign and accept the Integrity Agreement, while submitting the tender/tender, IIITD shall have unqualified, absolute and unfettered right to disqualify the tenderer and reject the tender in accordance with terms and conditions of the tender.

In addition to other components of tender document, the Integrity Pact shall also be signed between The Director, IIITD and successful tenderer after acceptance of tender.

To,

.....,  
.....,  
.....

Sub: NIT for the work for “Supply, Installation, Testing and Commissioning of AV Systems works for Phase II Construction at Proposed Permanent Campus of IIITD Delhi at Delhi”.

Dear Sir,

It is here by declared that Registrar on behalf of the IIITD is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Tenderer will sign the integrity Agreement, which is an integral part of tender/tender documents, failing which the tenderer will stand disqualified from the tendering process and the tender of the tenderer would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the IIITD.

Yours faithfully  
Registrar, IIITD

## **INTEGRITY AGREEMENT**

To,  
Director,  
INDRAPRASTHA INSTITUTE OF INFORMATION TECHNOLOGY  
DELHI

**Sub: Submission of Tender for “Supply, Installation, Testing and Commissioning of AV Systems works for Phase II Construction at Proposed Permanent Campus of IIITD Delhi at Delhi” .**

Dear Sir,

I/We acknowledge that Director on behalf of the IIITD is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/tender documents.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE TENDER SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender is finally accepted by IIITD. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 6 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/tender, IIITD shall have unqualified, absolute and unfettered right to disqualify the tenderer and reject the tender in accordance with terms and conditions of the tender.

Yours faithfully

(Duly authorized signatory of the Tenderer)  
To be signed by each tenderer and Director, IIITD)

## INTEGRITY AGREEMENT

**THIS INTEGRITY AGREEMENT** is made at ..... on this..... day of 201\_  
BETWEEN

The Director, IIITD (hereinafter called "IIITD" or "Owner" which expression shall unless repugnant to the context or meaning thereof is deemed to include its successors & permitted assigns) of the FIRST PART:

AND

..... (Name and Address of the Individual/firm/Company) through..... (Hereinafter referred to as the (Details of duly authorized signatory) "Tenderer/Contractor" and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns) of the SECOND PART

Each of the IIITD/Owner and Tenderer/Contractor individually referred to as the "Party" and collectively referred to as the "Parties".

WHEREAS the Owner floated a tender for "Supply, Installation, Testing and Commissioning of AV Systems works for Phase II Construction at Proposed Permanent Campus of IIITD Delhi at Delhi, ." ("Tender") and intends to award, under laid down organizational procedure, contract pursuant to issuance of such Tender ("Contract").

AND WHEREAS the Owner values full compliance with all applicable laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its tenderer(s) and contractor(s).

AND WHEREAS to meet the purpose aforesaid, the Parties have agreed to enter into this Integrity Agreement ("Integrity Pact" or "Pact"), the terms and conditions of which shall also be read as integral part of the tender documents and Agreement between the Parties and shall be construed accordingly.

**NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the Parties hereby agree as follows and this Pact witnesses as under:**

### **Article 1: Commitment of the Owner**

- 1) The Owner commits itself to endeavor to take all measures necessary to prevent corruption and to observe the following principles:
  - (a) No employee of the Owner, personally or through any of his/her family members, shall in connection with the Tender, or the execution of the Agreement, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
  - (b) The Owner shall, during the tender process, treat all tenderer(s) with equity and reason. The Owner shall, in particular, before and during the tender process, provide to all tenderer(s) the same information and shall not provide to any tenderer(s) confidential/additional information through which the tenderer(s) could obtain an advantage in relation to the tender process or the execution of Agreement.
  - (c) The Owner shall endeavor to exclude from the tender process any person, whose conduct in the past has involved any bias of any nature.
- 2) If the Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal Code (IPC) or Prevention of Corruption Act, 1988 or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Owner shall be at liberty to take appropriate disciplinary action or initiate disciplinary proceedings as per its internal policies and procedures.

### **Article 2: Commitment of the Tenderer(s)/ Contractor(s)**

- 1) Each Tenderer/Contractor shall be required to (including their respective officers, employees and agents) adhere to the highest ethical standards and shall report to the Owner of any suspected acts of fraud or corruption or coercion or collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation and award of the Contract.
- 2) The Tenderer(s)/Contractor(s) shall commit themselves to take all measures essential to prevent any act of corruption. The Tenderers/Contractors commit themselves to observe the following principles during their participation in the Tender process and during the execution of the Contract:
  - a) The Tenderer(s)/Contractor(s) shall not, directly, indirectly or through any other person or firm, to obtain any advantage of any kind whatsoever during the process of Tender or during the execution of the Contract, offer, promise or give to any of the Owner's employees involved in the Tender

process or execution of the Contract or to any third person any material or other benefit which such person is not legally entitled to.

- b) The Tenderer(s)/Contractor(s) shall not enter with other Tenderer(s) any undisclosed agreement or understanding, whether formal or informal for manipulating prices, specifications, certifications, subsidiary contracts, submission or non-submission of tenders or any other actions to restrict competitiveness or to cartelize in the tendering process.
  - c) The Tenderer(s)/Contractor(s) shall forbear from committing any offence under the Indian Penal Code (IPC) or Prevention of Corruption Act, 1988. The Tenderer(s)/Contractor(s) shall not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Owner as part of the business relationship, plans, technical proposals and business details, including information contained or transmitted electronically or otherwise.
  - d) The Tenderer(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Tenderer(s)/Contractor(s) of Indian nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly can submit tender in the process of tender, but not both. In cases where an agent participates in the tender on behalf of one tenderer, such agent shall not be permitted to quote on behalf of any another tenderer along with the first manufacturer in a subsequent/parallel tender for the same item.
  - e) The Tenderer(s)/Contractor(s) shall, when presenting tender, disclose any and all payments made, committed to make or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Tenderer(s)/Contractor(s) shall not instigate any third person to commit offences mentioned above or be an accessory to such offences.
  - 4) The Tenderer(s)/Contractor(s) shall not, directly or through any other person indulge in fraudulent practice including but not limited to willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the interest of the Owner.
  - 5) The Tenderer(s)/Contractor(s) shall not, directly or through any other person use coercive practices including but not limited to the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process.

### **Article 3: Consequences of Breach**

Without prejudice to any rights available to the Owner under law or the Contract or its established policies and procedures, the Owner shall have the following rights in case of breach of this Integrity Pact by the Tenderer(s)/Contractor(s) and the Tenderer/ Contractor accepts and undertakes to respect and uphold the Owner's absolute right:

- 1) If the Tenderer(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Owner after giving 14 days' notice to the Tenderer/Contractor shall have the powers to disqualify the Tenderer(s)/Contractor(s) from the process of Tender or terminate/determine the Contract, if already executed or exclude the Tenderer/Contractor from future contract award processes. The imposition and duration of the exclusion shall be determined by the severity of transgression and determined by the Owner. Such exclusion may be forever or for a limited period at the sole discretion of the Owner.
- 2) Forfeiture of EMD/Performance Guarantee/Security Deposit: Pursuant to the Owner disqualifying the Tenderer(s) from the Tender process prior to the award of the Contract or terminates/determines the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Owner apart from exercising any legal rights that may have accrued to the Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit rendered by the Tenderer/Contractor.
- 3) Criminal Liability: Pursuant to the Owner obtaining any knowledge of conduct of a Tenderer or Contractor, or of an employee or a representative or an associate of a

Tenderer or Contractor which constitutes corruption within the meaning of the Indian Penal Code (IPC) or Prevention of Corruption Act, 1988 or if the Owner has substantive suspicion in this regard, the Owner shall forthwith inform the same to any law enforcing agencies for further investigation without being obligated to first inform the Tenderer/Contractor of the same.

#### **Article 4: Previous Transgression**

- 1) Each Tenderer/Contractor shall declare and confirm that no previous transgressions have occurred in the last five (5) years with any other company in any country confirming to the anti-corruption approach or with the Central Government or any State Government or any other Central/State Public Sector Enterprises in India that could justify its exclusion from the process of Tender.
- 2) Upon any incorrect, false, misleading statement made or submitted by the Tenderer in terms of 4(1) above, shall render the Tenderer disqualified from the process of Tender or entitling the Owner to take any action for imposing a ban on any business dealings/holiday listing of the Tenderer/Contractor at the sole discretion of the Owner.
- 3) Upon a confirmation made by the Tenderer/Contractor, to the satisfaction of the Owner, proving that the damage caused has been resorted / recouped and a suitable corruption prevention system has been installed to the satisfaction of the Owner, the exclusion may be revoked prematurely by the Owner at its sole discretion.

#### **Article 5: Equal Treatment of all Tenderers/Contractors/Subcontractors**

- 1) The Tenderer(s)/Contractor(s) undertake(s) to demand from all sub-contractors a commitment in conformity with this Integrity Pact. The Tenderer/Contractor shall be responsible for any violation(s) of this Integrity Pact by any of its subcontractors/sub-vendors.
- 2) The Owner shall enter into such agreements or pacts on identical terms as this Integrity Pact with all Tenderers and Contractors.
- 3) The Owner shall disqualify Tenderers, who fail to submit duly executed Integrity Pact along with the Tender or violate any of the provisions at any stage of the Tender process.

#### **Article 6- Duration of the Pact**

This Pact shall become effective on the day the Owner and the Tenderer/Contractor have signed and executed the same. The Integrity Pact shall continue to remain in force for the Contractor till twelve (12) months after the completion of work under the contract or till the continuation of defect liability period, whichever is later. However, the Integrity Pact shall come to an end for unsuccessful tenderers upon award of the Contract to the successful tenderer. If any claim is made/lodged during the time, the same shall be binding and continue to remain valid despite the lapse of this Pact as specified above, unless such Tenderer is discharged by the Owner.

#### **Article 7- Other Provisions**

- 1) The Integrity Pact shall be governed by the applicable Indian laws and the place of performance and jurisdiction shall be the place of office of the Owner.
- 2) Any change, amendment, modification or supplement or addendum to the Integrity Pact can only be brought into effect by way of mutual written agreement between the parties to the Integrity Pact.
- 3) If the Contractor is a partnership or a consortium, this Pact shall be executed and signed by all the partners or by one or more partners holding power of attorney executed in favor of such partner or partners by the remaining partners. In case the contractor is a company, the Pact shall be executed and signed by a representative duly authorized by board resolution of such company.
- 4) In case any of the provisions of this Integrity Pact is rendered invalid by law or otherwise, the remaining provisions of the Integrity Pact shall continue to remain valid and binding on the Parties. In such a case, the Parties shall strive to come to an agreement to the original intension envisaged under the Integrity Pact.
- 5) The Parties agree that any dispute or difference arising between the Parties with respect to the terms of this Integrity Pact, any action taken by the Owner in accordance with this Integrity Pact or any interpretation thereof shall not be subject to arbitration.

#### **Article 8- LEGAL AND PRIOR RIGHTS**

All rights and remedies of the Parties hereto shall be in addition to all the other legal rights and remedies available to the Parties under law or contract and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. The Parties agree that this Integrity Pact shall have

precedence over the Tender/Contact documents with regard to any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the Parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses

.....

(For and on behalf of Owner)

.....

(For and on behalf of Tenderer/Contractor) WITNESSES (Signature, name and address)

1 .....

2 .....

Place:

Dated:

**FORM OF BANK GUARANTEE FOR EARNEST MONEY**

WHEREAS, contractor..... (Name of contractor) ("Contractor") has submitted his tender dated..... (Date) for construction of..... (Name of work) ("Tender")

KNOW ALL PEOPLE by these presents that We, \_\_\_\_\_ (name of bank) having our registered office at..... ("Bank") are bound unto Director, IIITD Delhi ("Owner") in the sum of Rs..... (Rs. in words ..... ) for which payment well and truly to be made to the Owner, the Bank binds itself, his successors and assigns by these presents. SEALED with the Common Seal of the said Bank this .....day of..... 20....

The present Bank Guarantee shall be governed by the following terms and conditions:

- 1. If after opening of the Tender, the Contractor withdraws the Tender during the period of validity of Tender (including extended validity of the Tender) as more specifically mentioned in the Notice Inviting Tender; or
- 2. If the Contractor having been notified of the acceptance of its Tender by the Owner:
  - a) fails or refuses to execute the Agreement in accordance with the instructions of the Owner; or
  - b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of the Notice Inviting Tender and instructions given to the Contractor; or
  - c) fails or refuses to start the work, in accordance with the provisions of the Notice Inviting Tender and instructions given to the Contractor; or
  - d) fails or refuses to submit fresh Bank Guarantee of an amount equivalent to this Bank Guarantee against the Security Deposit after award of the Tender;

we undertake to pay to the Owner, without any protest or demur, an amount equal to the amount specified in this Bank Guarantee upon receipt of the first written demand received from the Owner, without the Owner having to substantiate such demand, provided that in such demand the Owner shall clearly indicate such condition or conditions entitling the Owner to claim the amount under the present Bank Guarantee.

This Guarantee shall remain in force up to and including the date (validity period of six months from the last date of receipt of the Tender) after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the Owner, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE: .....

SIGNATURE OF THE BANK: ..... SEAL: .....

WITNESS: .....

(SIGNATURE, NAME AND ADDRESS)

*(To be executed by and between the Owner and the successful tenderer)*



**FORMAT OF AGREEMENT**

This agreement is executed at \_\_\_\_\_ (place of execution) on the \_\_\_\_\_ day of \_\_\_\_\_, 201\_\_  
BETWEEN

\_\_\_\_\_, which expression shall mean and include its successors and assigns (name and address of the Owner) (“Owner”) of the FIRST PART  
AND

\_\_\_\_\_  
(name and address of the successful tenderer) (“Contractor”) of the SECOND PART

The Owner and the Contractor shall be individually referred to as the “Party” and collectively referred to as the “Parties”

Whereas the Owner is desirous of developing a permanent campus and invited tenders by issuing Notice Inviting Tender (“Tender”) for selection of a contractor for constructing the said campus. The Contractor has submitted its bid pursuant to the issuing of the Tender by the Owner. WHEREAS the details of the work proposed to be executed by the Contractor is more particularly specified in the Tender( name and identification number of Contract) ( “Works”) and the Owner has accepted the Tender submitted by the Contractor for the execution and completion of the Works and the remedying of any defects therein, at a contract price ofRs.....  
..... (Rupees \_\_\_\_\_ (in words))

WHEREAS the Owner has now desirous of laying down the terms and conditions governing the execution of the Works and has therefore, requested the Contractor to execute the present Agreement.

NOW THIS AGREEMENT WITNESSETH as:

1. In this Agreement, words and expressions shall carry the same meanings as are ascribed to them in the Conditions of Contract as more particularly mentioned in the Tender. The Parties agree that the Tender shall form an integral part of this Agreement and shall be read and construed accordingly.
2. In consideration of the payments to be made by the Owner to the Contractor as the consideration for execution of the Works (“Consideration”), the Contractor hereby covenants with the Owner to execute and complete the Works and remedy the defects therein in conformity in all aspects with the provisions of the Tender and this Agreement.
3. The Owner hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and in the remedying the defects wherein the Contract Price or such other sum as may become payable under the provisions of the Tender and this Agreement at the times and in the manner prescribed under the Tender.
4. The following documents shall be deemed to form and be read and construed as part of this Agreement with their **order of precedence** as herein under:
  - i) Letter of Acceptance;
  - ii) Notice to proceed with the Works;
  - iii) All communications prior to and pertaining to this Agreement (save in to the extent agreed by the parties and incorporated in the Letter of Acceptance)
  - iv) Pre Bid Clarifications
  - v) Notice Inviting Tender
  - vi) Contractor’s Tender;
  - vii) Contract Data;
  - viii) Priced Bill of Quantities

- ix) Special Conditions of Contract
- x) General Conditions of Contract
- xi) Specifications;
- xii) Drawings;

In witness whereof the Parties have caused this Agreement to be executed on the day and year first written above.

The Common Seal of \_\_\_\_\_

\_\_\_\_\_ was here unto affixed in the presence of:

Signed Sealed and Delivered by the said \_\_\_\_\_

Binding Signature of Owner

Binding Signature of Contractor

\_\_\_\_\_ in the presence of

**Item Rate Tender & Contract for Works**

- (A) **Tender for the work of:** - Supply, Installation, Testing and Commissioning of AV Systems for Phase II Construction at Proposed Permanent Campus of IIITD Delhi Okhla-III, Delhi.
- (i) To be submitted by the tenderers at the project office of IIITD, up to 1600 Hrs on 9<sup>th</sup> January 2017.
  - (ii) The Envelope 1 containing the original instruments of Tender Processing Fee and the EMD is to be opened in presence of tenderers, who may be present, at 1630 Hrs on 9<sup>th</sup> Jan 2017 at the Registrar/CE office of IIITD Campus, Delhi-20

**TENDER**

I/We have read and examined the notice inviting tender, bill of quantity, Specifications, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender to execute the work of IIITD as mentioned above and detailed in the schedule of quantities within the time frame specified in the tender documents, and in accordance with the specifications, designs, drawing and instructions/orders of the engineer in charge meeting all the Conditions of Contract with such materials as are provided for in the drawings, technical specifications or the schedule of quantities.

I/We agree to keep the tender open and valid for 120 (One hundred twenty days) from the due date of its opening and shall not make any modifications in its terms and conditions.

A sum of Rs. 4.8 Lakhs is hereby forwarded in the form of a demand draft of a Scheduled Bank and a bank guarantee issued by a Scheduled Bank as earnest money. If I/ We, fail to furnish the prescribed performance guarantee within prescribed period and the form, I/We agree that IIITD shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that IIITD shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by Owner towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause Deviations/Variations Extent and Pricing of the tender form. Further, I/We agree that in case of forfeiture of Earnest Money & Performance Guarantee as aforesaid I/We shall be debarred from participating in the re-tendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Owner, then I/we shall be liable to legal and penal action as deemed appropriate by the Owner. Also, if such a violation comes to the notice of the Owner before the date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/ Performance Guarantee.

I/We hereby declare that I/we shall treat the Tender Documents, drawings and other records connected with the Work as confidential documents and shall not communicate nor use any information derived there from to any persons other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the interest of IIITD.

Dated	Signature of Contractor
Witness	

Name .....	Name .....
Address .....	Address .....
Occupation .....	Telephone .....

**ACCEPTANCE**

The above offer is hereby accepted by me on behalf of Indraprastha Institute of Technology Delhi. For a sum of Rs. ----- (Rupees -----)

Dated	For & on behalf of IIITD
	Signature

**Form of Performance Guarantee Bank Guarantee / Bond**

In consideration of the IIITD having offered to accept the terms and conditions of the proposed agreement between.....and  
.....(hereinafter called “the said Contractor(s)”) for the  
work..... (herein after called “the said agreement”) having agreed to production of an irrevocable Bank Guarantee for Rs. ....(Rupees ..... only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We, ..... (herein after referred to as “the Bank”) hereby undertake to pay to the Owner an amount not exceeding Rs. .... (Rupees..... Only) on demand by the Owner.
2. We, .....(indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the Owner stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. .... (Rupees .....only)
3. We, the said bank further undertakes to pay to the Owner any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.
4. We, ..... (indicate the name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Owner under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer in-Charge on behalf of the Owner certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.
5. We, ..... (indicate the name of the Bank) further agree with the Owner shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Owner against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on the part of the Owner or any indulgence by the Owner to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
7. We, ..... (indicate the name of the Bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Owner in writing.
8. This guarantee shall be valid up to .....unless extended on demand by the Owner accompanied with a request from the Contractor.
9. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. .... (Rupees .....) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Dated the .....day of .....for.....(indicate the name of the Bank)

## **BRIEF PARTICULARS OF THE WORK**

The scope of work is of "Supply, Installation, Testing and Commissioning of AV Systems for Phase II Construction of IIITD Delhi shall include supply, installation, testing and commissioning of audio video equipment for its stepped lecture halls, large classrooms and senate/board room.

## **GENERAL GUIDELINES FOR TENDERERS**

### **1. GENERAL:**

- 1.1. Letter of transmittal and forms, terms and conditions for deciding eligibility are given in this tender document.
- 1.2. All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. In case no information is to be provided in a particular column, "nil" or "no such case" or "not available" entry should be made in that column. If any particulars/query is not applicable in case of a tenderer, "not applicable" shall be mentioned against such particular/query. The tenderers are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the tender being summarily disqualified and rejected entitling the Owner to forfeit the EMD and Tender Processing Fee without any further notice to the tenderer. Tenders made by telegram or telex and including those received late after due date and time mentioned in the tender shall not be entertained and returned unaccepted.
- 1.3. References, information and certificates from the respective owners certifying suitability, technical knowledge or capability of the tenderer should be self attested.
- 1.4. The tenderer may furnish any additional information, which it thinks is necessary to establish its capabilities to successfully complete the envisaged Work. Tenderers are, however, advised not to furnish any superfluous information. No information shall be entertained after uploading of eligibility criteria document unless it is called for by the Engineer-in-Charge.
- 1.5. It is desirable that the tenderer is not contesting or defending any legal proceeding before a court of law or tribunal or quasi-judicial or administrative authority ("Legal Proceedings"). The tenderer must submit information of all ongoing Legal Proceedings and for the past five (5) years. In the event the tenderer has not been subject to any such Legal Proceedings either in process or in the past five (5) years, an affidavit to this effect, duly notarized shall be submitted in original.
- 1.6. Any information furnished by the tenderer found to be incorrect either immediately or at a later date, shall render such tenderer liable to be debarred from tendering/taking up of the Work.
- 1.7. The tenderer shall not have been black listed by any State/Central Government Department or Public Sector Undertaking or any autonomous body. The tenderer shall submit a duly self attested declaration, stating that the tenderer has not been black-listed. Applications received without such declaration in original shall stand summarily rejected. IIITD shall be entitled to forfeit the EMD and Tender Processing Fee on account of any such rejection.

### **2. DEFINITIONS:**

In this document the following words and expressions shall carry the meaning hereby assigned to them:

- 2.1 "The Contract" means the documents forming the tender and acceptance thereof and the formal agreement executed between the competent authority on behalf of the President of India and the Contractor, together with the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Engineer in- Charge and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.
- 2.2 "Owner/Client/IIITD" shall mean and refer to the Indraprastha Institute of Information Technology Delhi;
- 2.3 "Director" shall mean and refer to the Director of IIITD;
- 2.4 'Registrar' shall mean and refer to the Registrar of IIITD;
- 2.5 "Architects" shall mean and refer to the Architects and their Consultants appointed by IIITD as Architect.
- 2.6 "PMC" shall mean and refer to the Consultants appointed by IIITD as Project Management Consultants.
- 2.7 "Engineer in Charge" shall mean and refer to an authorized representative appointed by IIITD;

2.8 "Tenderer" shall mean and refer to an individual, proprietary firm, firm in partnership, limited company (private or public) or corporation but shall not include a joint venture and special purpose vehicle.

2.9 "Market Rate" shall be the rate as decided by the Engineer-in-Charge on the basis of the cost of materials and labour at the site where the work is to be executed plus the percentage mentioned in Schedule 'F' to cover, all overheads and profits.

3. **METHOD OF APPLICATION:**

3.1 If the tenderer is an individual, the application for submitting tender shall be signed by such individual above the full type written name and current address.

3.2 If the tenderer is a proprietary concern, the application for submitting tender shall be signed by the proprietor above full type written name and the full name of the proprietor firm with its current address.

3.3 If the tenderer is a partnership firm, the application for submitting tender shall be signed by all the partners of the partnership firm above their full typewritten names and current address, or, alternatively, by one or more partners holding power of attorney for the firm and/or other partners. A notarized copy of such power of attorney shall be submitted along with the application. The application shall also be accompanied with a notarized copy of the partnership deed.

3.4 If the tenderer is a limited company or a corporation, the application for submitting tender shall be signed by a duly authorized person holding power of attorney for signing the application accompanied by a copy of the power of attorney. The tenderer shall also furnish a notarized copy of the Memorandum and Articles of Association of the company.

4. **CRITERIA FOR ELIGIBILITY (TECHNICAL TENDER)**

4.1 The eligibility criteria applicable for the tenderers for the present tender in terms of the scope of Work shall be: Experience of having successfully completed similar works during last seven years ending last day of the month previous to the one in which applications are invited.

4.1.1. Successfully completed three similar works each of the value not less than 40% of the estimated cost put to tender, i.e. Rs. 1Crore (Rupees One crores only)

or

completed two similar works each of the value not less than 60% of the estimated cost put to tender i.e Rs.1.5 Crores (Rupees One crore fifty lakh only)

or

completed one similar work of value not less than 80% of the estimated cost put to tender i.e Rs. 2 Crores (Rupees Two crores only)

(as on Last date of Previous Month when NIT is Published)

**and**

Completed one work of similar nature (either as a part of 4.1.1 or a separate one ) of value not less than not less than 40% of estimated cost put to tender i.e. Rs. 1 Crores (Rupees One crore only) with a Central Government /State Government Department/Central Autonomous Body/State Autonomous Body/ Central Public Sector Undertaking/State Public Sector Under taking/City Development Authority/Municipal Corporation of any City formed under any act by Central/State Government and Published in Central/State Gazette.

Similar works include AV system works comprising of Supply installation testing and commissioning of sound reinforcement systems, video projection systems, presentation system etc for classrooms, lecture theatres, boardrooms, auditoriums in educational institutions, universities, institutional campus / office campus etc with high quality works.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the previous day of the last date of submission of Tender).

4.2 The tenderer shall furnish an affidavit as under along with Technical bid:

"I/We, \_\_\_\_\_, aged \_\_ years, having my/our office at \_\_\_\_\_, solemnly affirm on oath as under:

a. I/We undertake and confirm that eligible similar work(s) has/have not been executed through another contractor on back to back basis.

b. I/We agree that in case I/We are found to be in violation of (a) above or the same comes to the notice of IIITD by any means whatsoever, then IIITD shall be entitled to take appropriate penal and legal action

against me/us. If such a violation comes to the notice of IIITD before the date of initiation of work, the Engineer-in-Charge shall be free to forfeit the entire amount of EMD and the Tender Processing Fee.

- 4.3 The tenderer should have had average annual financial turnover (gross) of Rs. 6.25 Crores (Rupees Six crores and twenty five lacs only) during the last available three consecutive financial years ending 31st March 2016. The statement showing the gross average annual financial turnover duly audited by a chartered accountant shall be furnished by the tenderer.
- 4.4 A certificate from a chartered accountant duly certifying that the tendered shall not have incurred any loss in more than two (2) years during the immediate last five consecutive financial years shall be furnished by the tenderer.
- 4.5 The tenderer shall furnish a solvency certificate as may be certified by its bankers for a value which is not less than 50% of the estimated cost put to Tender i.e. Rs. 1.25 Crores (Rupees One crores twenty five lakhs only). Such certificate shall not be of a date which is more than six months prior to the date of submission of tender.
- 4.6 Authorization from OEM:
- 4.7 Tenderer shall make available, following authorization for this tender from the Manufacturer. (To be submitted along with Technical Bid).
- 4.8 Authorization that the items quoted by the tenderer are in production and would be serviceable for at-least 5 years from the date of tender.
- 4.9 A performance/completion certificate issued by a Head of the Organization/Authorized Signatory of the Owner/Client and self-attested certificate of the performance for each work completed by the tenderer in the last five (5) years.
- 4.10 The tenderer shall own the necessary equipments as required for the trade for proper and timely execution of the Work.
- 4.11 The tenderer shall have sufficient number of technical and administrative employees for proper execution of the Work as per list. The tenderers shall submit a list of employees working with it and clearly state the roles and responsibilities of such employees for execution of the Work.
- 4.12 Notwithstanding the fact of having been qualified under Clause 4.1, a tenderer shall be liable to be disqualified in case such tenderer:
  - a. Makes misleading, incorrect or false representation or deliberately suppresses the information in the forms, statements and enclosures required to be submitted as a part of the eligibility criteria document.
  - b. Has a record of poor performance such as abandoning work, not properly completing the contract, or financial failures / weaknesses etc.

## **5. FINANCIAL INFORMATION**

The tenderer shall furnish the Annual Financial Statements for the preceding three (3) years in Form A and Solvency Certificate in Form B.

## **6. DISCLOSURE OF EXPERIENCE IN SIMILAR WORKS**

- 6.1 The tenderer shall furnish the following:
  - a. List of all works of similar nature successfully completed during the preceding five years in Form C.
  - b. List of the projects under execution or awarded in Form D.
- 6.2 Particulars of completed works and performance of the tenderer duly self-attested shall be furnished separately for each work completed or in progress in Form E.
- 6.3 Information in Form D shall be complete in all respects and no work shall remain unreported.

## **7. ORGANISATION INFORMATION**

The tenderer shall be required to submit the information in respect of its organization in Forms F & G.

## **8. PLANT & EQUIPMENT**

The tenderers shall furnish the list of plant and equipment proposed to be utilized in carrying out the Work in Form H. Details of any other plant & equipment required for the Work not included in Form H and available with the tenderer may also be indicated.

## **9. LETTER OF TRANSMITTAL**

The tenderer shall submit the Letter of Transmittal in the format as prescribed in this document.

## **10. OPENING OF THE PRICED BOQ**

After evaluation of the eligibility documents, a list of short listed tenderers qualified under eligibility criteria shall be prepared. Thereafter, the Priced BOQ of only the qualified and technically acceptable tenderers shall be opened at the notified time, date and place in the presence of the qualified tenderers or their representatives, who wish to be present. The validity of the tenders shall be 120 (One twenty) days and shall be reckoned from the date of opening of the Priced BOQ.

**11. AWARD CRITERIA**

- 11.1 The Owner reserves the right, without being liable for any damages or any obligation to inform the tenderer, to:
  - 11.1.1 Amend the scope and value of Work to the tenderer.
  - 11.1.2 Reject any or all of the applications without assigning any reason.
- 11.2 Any effort on the part of the tenderer or his agent to exercise any influence or to pressurize the Owner shall result in rejection of its tender. The Owner clarifies that any kind of canvassing or any act of similar nature is expressly prohibited.



**LETTER OF TRANSMITTAL**

**From:**

**To**

**The Director**

**INDRAPRASTHA INSTITUTE OF INFORMATION TECHNOLOGY DELHI**

**OKHLA-III, Delhi,**

**Dear Sir,**

**Subject: Supply, Installation, Testing and Commissioning of AV Systems works for Phase II Construction at IIITD Campus at Okhla-III, Delhi .**

Having examined the details given in Press -Notice and Tender document for the above work in the subject hereinabove, I/we hereby submit the relevant information as hereunder:

- a. I/We hereby certify that all the statement made and information supplied in the enclosed Forms A to K and accompanying statement are true and correct in all respects and no information has been concealed and misrepresented.
- b. I/We have furnished all information and details necessary for certifying the eligibility and that no further pertinent information required to be shared remains undisclosed.
- c. I/We hereby submit the requisite certified solvency certificate and authorize the Director, IIITD to approach the bank issuing the solvency certificate to confirm the correctness and veracity thereof. I/We also authorize Director, IIITD to approach individuals, owners, firms and corporations to verify my/our competence and reputation.
- d. I/We submit the following certificates in support of my/our suitability, technical knowledge and capability for having successfully completed the following works:

Sr. No.	Name of Work	Certificate from

Enclosures:

Date of submission

SIGNATURE(S)

Seal of tenderer

OF

TENDERER(S)

**FORM A - FINANCIAL INFORMATION**

Financial Analysis-Details to be furnished duly supported by figures in balance sheet/profit & loss account for the last five (5) years duly certified by the Statutory Auditors/ a chartered accountant (in case the appointment of a statutory auditor is not applicable), as submitted by the tenderer to the Income Tax Department (copies of all the documents to be attached).

S. No.	Description	Years				
		2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
i)	Gross Annual turnover					
ii)	Turnover on AV works					
iii)	Profit/Loss					

Solvency Certificate from Bankers of tenderer in the prescribed Form B

SIGNATURE OF TENDERER(S)

Signature of Chartered Accountant with Seal

**FORM B - SOLVENCY CERTIFICATE**

(SUGGESTED DRAFT OF BANKER’S SOLVENCY CERTIFICATE FROM A SCHEDULED BANK)

**SOLVENCY CERTIFICATE**

This is to certify that to the best of our knowledge and information that M/s./Shri..... having marginally noted address, a customer of our bank are/is respectable and can be treated as good for any engagement up to a limit of Rs.....(Rupees.....).

This certificate has been issued at the specific request for limited purpose of submitting the same to the Indraprastha Institute of Information Technology Delhi () and shall not be used for any other purpose whatsoever.

This certificate is issued without any guarantee or responsibility on the bank or any of our officers and employees.

(Signature)  
For the Bank

**GENERAL INSTURCTIONS:**

- (1) Banker’s Solvency Certificate must be on the letterhead of the bank issuing such certificate addressed to the Director, IIITD.
- (2) In case the Solvency Certificate is issued at the request of a partnership firm, such certificate must include names of all partners as recorded with the Bank.
- (3) The Solvency Certificate shall not be more than 6 months old considered from the last date of submission of the Tender.

**FORM C****DETAILS OF ALL WORKS OF SIMILAR NATURE COMPLETED & PROJECT SPECIFIC WORK DURING THE LAST FIVE YEARS ENDING 2016**

A	B	C	D	E	F	G	H	I	J
Sr.No	Name of work/project and location	Owner or sponsoring organization	Cost of work in Crores	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation / arbitration cases pending / in progress with details*	Name and address / telephone number of officer to whom reference may be made	Remarks
1									
2									
3									

Certified that the above list of works is complete and no work has been left undisclosed and that the information furnished above is true, correct and not misleading to my/our knowledge and belief.

SIGNATURE OF TENDERER(S)

**FORM D**

**PROJECTS UNDER EXECUTION OR AWARDED**

	A	B	C	D	E	F	G	H	I
Sr.No	Name of work/ project and location	Owner or sponsoring organization	Cost of work	Date of commencement as per contract	Stipulated date of completion	date percentage Up to progress of work	Slow progresses if any, and reasons thereof	Name and address telephone number of officer to whom	Remarks
1									
2									

Certified that the above list of works is complete and no work has been left undisclosed and that the information furnished above is true, correct and not misleading to my/our knowledge and belief.

SIGNATURE OF TENDERER(S)

**FORM E**

(On respective owner's letterhead)

**PERFORMANCE REPORT OF WORKS REFERRED TO IN FORMS C & D**

1	Name of work/ Project & Location	
2	Agreement No.	
3	Estimated Cost	
4	Tendered Cost	
5	Date of Start	
6	Date of completion	
	i)	Stipulated Date of Completion
	ii)	Actual Date of Completion
7	Amount of compensation levied for Delayed completion, if any.	
8	Amount of reduced rate items, if any.	
9	Performance Report	
	1) Quality of Work	Very Good/Good/Fair/Poor
	2) Financial Soundness	Very Good/Good/Fair/Poor
	3) Technical Proficiency	Very Good/Good/Fair/Poor
	4) Resourcefulness	Very Good/Good/Fair/Poor
	5) General Behavior	Very Good/Good/Fair/Poor

Certified that the above information is complete and that the information furnished above is true, correct and not misleading to my/our knowledge and belief.

Dated:

Duly Signed and stamped by Authorized Signatory of the company/firm/organization.

**FORM F**  
**STRUCTURE & ORGANIZATION**

1	Name & Address of the tenderer			
2	Telephone address	No./Telex	No./Fax	No./e-mail
3	Legal status of the tenderer (attach copies of original document defining the legal status).			
	a)	A proprietary firm		
	b)	A firm in partnership		
	c)	A limited company or Corporation		
4	Particulars of registration with various Government bodies (attach attested photocopy).			

	ORGANIZATION/PLACE OF REGISTRATION NO.	REGISTRATION
1		
2		
5	Names and Titles of Directors & Officers with designation to be deputed for the Works	
6	Designation of individuals authorized to act for the organization.	
7	Was the tenderer ever required to suspend works for a period of more than six months continuously after commencement of construction? If so, give the name of the project and reasons of suspension of work.	
8	Has the tenderer or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion? If so, give name of the project(s) and reasons for abandonment.	
9	Has the tenderer or any constituent partner in case of partnership firm, ever been debarred/ black listed for tendering by any organization at any time? If so, give details.	
10	Has the tenderer or any constituent partner in case of partnership firm, ever been convicted by a court of law? If so, give details.	
11	Field of specialization and interest of the tenderer in the AV systems and its allied works	
12	Any other information considered necessary but not included above.	

Certified that the information mentioned above is complete and no information has been left undisclosed and that the information furnished above is true, correct and not misleading to my/our knowledge and belief.

SIGNATURE OF TENDERER(S)

**FORM G-**

**DETAILS OF TECHNICAL & ADMINISTRATIVE PERSONNEL TO BE DEPLOYED FOR THE WORK**

Sl. No.	Designation	Total number	Number available for this work	Name	Qualifications	experience and details Professional/ of work carried out	How these would be involved in this work	Remarks
A	B	C	D	E	F	G	H	J
1								
2								

Certified that the information mentioned above is complete and no information has been left undisclosed and that the information furnished above is true, correct and not misleading to my/our knowledge and belief.

SIGNATURE OF TENDERER(S)



**FORM H**

**DETAILS OF EQUIPMENT PROPOSED TO BE USED IN EXECUTION OF THE WORKS**

DELETED

**FORM I**

**GENERAL INSTRUCTIONS FOR THE SELF ATTESTED DECLARATION:**

I, \_\_\_\_\_, aged \_\_\_ years, son/daughter of \_\_\_\_\_, presently residing at \_\_\_\_\_ and authorized by \_\_\_\_\_ (name of tenderer) ("Tenderer") to solemn this affidavit on behalf of the Tenderer, solemnly affirm on oath as hereunder:

1. The Tenderer confirms that eligible similar works(s) have not been got executed through another contractor on back to back basis.
2. The Tenderer confirms and agrees that, if any such violation comes to the notice of Indraprastha Institute of Information Technology Delhi at Okhla-III, Delhi ("Owner"), then the Owner shall be at liberty to initiate appropriate penal and legal action against the Tenderer.
3. The Tenderer confirms and agrees that if such a violation comes to the notice of the Owner at any time before the date of start of Work, the engineer-in-charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

DEPONENT

VERIFICATION

I, \_\_\_\_\_, aged \_\_\_ years, son/daughter of \_\_\_\_\_, presently residing at \_\_\_\_\_ and authorized by Tenderer verify that the information mentioned above is true and correct to the best of my knowledge and belief.

DEPONENT

**FORM L**

**GENERAL INSTRUCTIONS FOR THE SELF ATTESTED DECLARATION FOR SITE VISIT**

I, \_\_\_\_\_, aged \_\_\_ years, son/daughter of \_\_\_\_\_, presently residing at \_\_\_\_\_ and authorized by \_\_\_\_\_ (name of tenderer) (“Tenderer”) to solemn this affidavit on behalf of the Tenderer, solemnly affirm on oath as hereunder:

1. The Tenderer confirms that the Tenderer has duly undertaken the visit of the proposed project site of Indraprastha Institute of Information Technology Delhi located at Okhla-III, Delhi.
2. The Tenderer has inspected and examined its surroundings and has satisfied itself about the site conditions and site logistics. The Tenderer confirms that it is aware of the ground conditions and nature of the site, means of access to the site and the accommodation area required for establishing the labour camp. The Tenderer agrees and confirms it shall be solely responsible for arranging and maintaining the afore-mentioned at its own cost including all materials, tools & plants, water, electricity, access, facilities for workers and all other services required for executing the Work unless otherwise specifically provided for in the contract documents.
3. The Tenderer confirms and agrees that the submission of the tender implies that the requisite site visit has already been undertaken and that the Tenderer has acquainted itself with the local conditions and other factors having a bearing on the execution of the Work.

DEPONENT

**VERIFICATION**

I, \_\_\_\_\_, aged \_\_\_ years, son/daughter of \_\_\_\_\_, presently residing at \_\_\_\_\_ and authorized by Tenderer verify that the information mentioned above is true and correct to the best of my knowledge and belief.

DEPONENT

## Requirement of technical Staff

### Technical Staff

The tenderer shall deploy sufficient number of technical and administrative employees for smooth execution of the Work. The tenderer shall submit a list of employees stating clearly the responsibility to be assigned to each of such employees.

S. No.	Minimum qualification of Technical Representative	Discipline	Designation (Principal Technical Technical representative)	Minimum Experience	No.	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)	
						Figures	Words
1	Graduate Engineer	Elect /Electronic Engineer	Principal Technical representative Technical representative	10 years	1	Rs. 25000 per month	Rs. TwentyFive thousand only
2	Graduate Engineer or Diploma Engineer	Elect /Electronic Engineer	Technical representative	3 Year 5 years	2	Rs. 15,000per month	Rs. Fifteen thousand only

**SECTION 2**

**PROFORMA OF SCHEDULES: A TO F**

**SCHEDULE A**

SCHEDULE OF QUANTITIES- ATTACHED

**SCHEDULE B****Schedule of materials to be issued to the Contractor**

<b>Sr. No.</b>	<b>Description on of item</b>	<b>Quantity</b>	<b>Rates in figures &amp; words at which the material will be charged to the contractor</b>	<b>Place of issue</b>
1	2	3	4	5
	NIL	NIL	NIL	NIL

**SCHEDULE C**

Tools and plants to be made available to the Contractor:

Sr. No.	Description of item	Quantity
1	2	3
	NIL	NIL

## **SCHEDULE D**

**Extra schedule for specific requirements / documents for the work if any.**

**The tenderer may give additional information other than sought for in the preceding paragraph.**



**SCHEDULE E**

**Reference to General Conditions of Contract.**

- i **Name of Work: Supply, Installation, Testing and Commissioning of AV Systems for Phase II Construction at Proposed Permanent Campus of IIITD Delhi at Delhi, .**  
Estimated cost of work: Rs. 2.4 Crores  
Earnest Money: Rs 4.8 Lakhs
- ii **Performance Guarantee: 5% (Five percent) of tendered value**
- iii **Security Deposit: 2.5% (Two and half Percent) of tendered value**

**SCHEDULE F (GENERAL RULES & DIRECTIONS)**

- (1) Authority Inviting Tender. - Registrar, Indraprastha Institute of Information Technology Delhi at Okhla-III, Delhi.
- (2) Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses "Deviation, Extra items and pricing & Deviation submitted items and pricing" Please refer below

**(3) Definitions:**

Sr. No	DESCRIPTION	DETAILS
1	Owner /Client	Indraprastha Institute of Information Technology Delhi (IIITD)
2	Project Manager	Nominated Person by IIITD
3	Design Consultant	Consultants, appointed by IIITD as Architects / Design Consultant/PMC
4	Engineer In charge	Authorized representative appointed by Indraprastha Institute of Information Technology, Delhi
5	Accepting Authority	Director, Indraprastha Institute of Information Technology, Delhi
6	Percentage on cost of materials and Labour to cover all overheads and profits	15%
7	Rates considered for Estimate	DSR 2016(Electrical & Mechanical))with amendments up to the last date of submission of tender /Market Rates as applicable.

**CLAUSE 4.2: Performance Guarantee**

1	Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance	10 (Ten) Days
2	Maximum allowable extension beyond the period provided in 1 above	5 (Five) Days with late fee @ 0.1% per day of the Performance Guarantee amount.

**CLAUSE 4.4: Compensation for Delay and Incentive for early completion**

1	Authority for fixing compensation clause	Director, Indraprastha Institute of Information Technology Delhi
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**CLAUSE 4.8: Time and Extension for Delay**

1	Number of days from the date of issue of letter of acceptance for reckoning date of start.	15 (Fifteen) days.
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Milestone(s) as per table given below:-

Though the overall time of completion is 12 months the contractor shall complete all the AV Systems works covered under Phase-II (attached....), such that the system is ready for operation in all respects, strictly conforming to the time limit specified for such items. The milestones shall be set area wise /job wise depending on the availability of the space and the requirements of IIITD as mutually agreed schedule.

**CLAUSE 4.11: Payment on Intermediate Certificate to be regarded as Advances**

1	Gross work to be done together with net payment / adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.	Rs. 20. 00Lacs. Per Running Account Bill
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**CLAUSE 4.17 & 4.18: Mobilization Advance or Secured Advance.**

1	Mobilization Advance or Secured advance on Nonperishable materials.	Applicable as per detailed clause.
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**CLAUSE 4.19: Payment due to increase/decrease in Prices/ Wages after Receipt of Tender for Works:**

1	Payment due to increase/decrease in Prices/ Wages (excluding materials covered under clause after Receipt of Tender for Works)	There will be No Price Variation Clause during the currency of the Contract and for the extended period. No escalation shall be payable
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**CLAUSE 4.21: Work to be executed in accordance with Specifications, Drawings, and Orders etc**

1	Specifications	Detailed Specifications related IS codes.
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**CLAUSE 4.22: Deviations/Variations/ Extent and Pricing**

1	Deviation limit beyond clause 4.22	No Limits No deviation/variation shall be payable.
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**CLAUSE 4.26: Action in case work not done as per Specifications**

1	Competent Authority for deciding reduced rates.	Engineer in Charge
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**CLAUSE 4.28: Contractors to Supply Tools & Plants etc.**

1	List of machinery, tools & plants to be deployed by the contractor at site	DELETED
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**CLAUSE 4.37: Settlement of Disputes**

1	Settlement of Disputes	Committee appointed by IITD
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**SECTION 3**  
**GENERAL RULES & DIRECTIONS**  
**AS PER CPWD GCC 2014 WITH LATEST AMENDMENTS AS APPLICABLE**

## SECTION 4

### GENERAL CONDITIONS OF CONTRACT AS PER CPWD GCC 2014 WITH LATEST AMENDMENTS AS APPLICABLE

#### OTHER APPLICABLE CLAUSES OF CONTRACT AS PER GCC 2014

- CLAUSE.4.1. Earnest Money
- CLAUSE.4.2. Performance Guarantee
- CLAUSE.4.3. Security Deposit
- CLAUSE.4.4. Compensation for Delay as per GCC 2014  
Compensation for delay of work @ 1.0 % per month of delay to be computed on per day basis
- CLAUSE.4.5. When Contract can be Determined
- CLAUSE.4.6. Work cannot be Started Due to Reasons not Within the Control of the Contractor.
- CLAUSE.4.7. Contractor Liable to Pay Compensation even if Action not taken as
- CLAUSE.4.8. Time and Extension for Delay
- CLAUSE.4.9. Measurement of Work Done
- CLAUSE.4.10. Computerized Measurement Book
- CLAUSE.4.11. Payment on intermediate Certificate to be regarded as Advances
- CLAUSE.4.12. Completion Certificate and completion plans
- CLAUSE.4.13. Contractor to keep site clean
- CLAUSE.4.14. Payment of final bill
- CLAUSE.4.15. Materials supplied by Owner
- CLAUSE.4.16. Materials to be provided by Contractor
- CLAUSE.4.17. Secured Advance on Non-perishable Materials Deleted
- CLAUSE.4.18. Mobilization Advance
- CLAUSE.4.19. Payment due to Variation in Prices of Materials after receipt of tender
- CLAUSE.4.20. Dismantled Material Owner's Property
- CLAUSE.4.21. Work to be executed in Accordance with Specifications, Drawings, and Orders etc.
- CLAUSE.4.22. Deviations / Variations Extent and Pricing Deviation, Extra items and Pricing Deviation, Substituted items, Pricing Deviation, Deviated Quantities, Pricing
- CLAUSE.4.23. Foreclosure of Contract due to Abandonment or Reduction in Scope of Work(s).
- CLAUSE.4.24. Carrying out part work at risk & cost of contractor.
- CLAUSE.4.25. Suspension of Work Action in case work not done as per Specifications
- CLAUSE.4.26. Contractor Liable for Damages/ Defects during defects liability period
- CLAUSE.4.27. Contractor to provide tools & plants etc.
- CLAUSE.4.28. Recovery of Compensation paid to Workmen
- CLAUSE.4.29. Ensuring Payment and Amenities to Workers if Contractor fails
- CLAUSE.4.30. Labour Laws to be complied with, by the Contractor  
Child Labour: Occupation of Buildings by Unauthorized persons Employment of skilled/semi-skilled workers
- CLAUSE.4.31. Minimum Wages Act to be complied with
- CLAUSE.4.32. Work not to be sublet
- CLAUSE.4.33. Compensation
- CLAUSE.4.34. Changes in firm's Constitution to be intimated
- CLAUSE.4.35. Works to be executed under the Contract
- CLAUSE.4.36. Settlement of disputes & Arbitration
- CLAUSE.4.37. Contractor to indemnify Owner against Patent Rights
- CLAUSE.4.38. Action where no Specifications are specified
- CLAUSE.4.39. Withholding and lien in respect of sum due from contractor
- CLAUSE.4.40. Lien in respect of claims in other Contracts
- CLAUSE.4.41. Unfiltered Water Supply
- CLAUSE.4.42. Electricity
- CLAUSE.4.43. Return of Surplus materials
- CLAUSE.4.44. Employment of technical Staff and employees
- CLAUSE.4.45. Levy/Taxes payable by Contractor -Reimbursement of levy/taxes payable by Contractor: -

**CLAUSE.4.46. Termination of Contract on death of contractor**  
**CLAUSE.4.47. Compensation during warlike situations**

**SECTION 5**  
**SPECIAL CONDITIONS OF CONTRACT**

**CLAUSE.5.1. Sub-Contractors**

Where and when the appointment of specialist Sub-Contractors is indicated, such Sub-Contractors shall be appointed only with the prior written approval of the Owner upon recommendation of Engineer-in-Charge/Design Consultant on the following conditions: -

- (A) The Contractor shall enter into written agreements with Sub-Contractors and ensure that the Sub-Contractors perform their Work in accordance with and subject to the terms and conditions of these Contract Documents. A copy of each such Agreement shall be furnished to the Engineer-in-Charge and the Owner.
- (B) The Contractor shall remain fully responsible to the Owner for the performance and workmanship and all actions of all sub-Contractors and persons directly or indirectly employed by them.
- (C) The Contractor shall supply and permit all Sub-Contractors to avail of site facilities and services to enable them to complete their Work safely and without hindrance or delay and conducive to produce the highest quality of Work required.
- (D) The Contractor shall upon receipt of instruction from the Engineer-in-Charge, terminate and remove from site forthwith such Sub-Contractor or their person who's Work may be considered unsatisfactory.
- (E) The Contractor shall make regular and prompt payment to each Sub Contractor not later than one week after receipt of payment from Owner for their measured Works certified by the Engineer-in-Charge. If the Contractor fails to make payments to Sub-Contractors as aforesaid, the Owner may, without any obligation or prejudice to its rights and with prior intimation to the Contractor may make direct payments to Sub-Contractors for and on behalf and from the account of the Contractor and recover such sums from the account of the Contractor out of the amounts due and payable under the bills raised by the Contractor. Such direct payments to Sub-Contractors shall be on behalf of the Contractor and shall in no way relieve the Contractor of his responsibilities or create a contractual relationship between the Owner and Sub-Contractor.
- (F) Any Subcontractor that has been approved by the Owner shall neither be removed nor replaced without the prior written consent of the Owner.

#### **CLAUSE.5.2. Nominated Sub-Contractors**

The Owner shall be entitled to nominate to the Contractor selected Sub-Contractors for carrying out certain sections of the Work or to replace terminated Sub-Contractors. Such nominated Sub-Contractors shall receive the same assistance and co-operation from the Contractor as other Sub-Contractors appointed by the Contractor, and the Contractor shall be equally responsible and liable for their Work as is liable for the Works of the other Sub-Contractors. Nominated Sub-Contractors shall enter into direct agreements with the Owner and shall receive direct payments from the Owner. For the site facilities and services made available by the Contractor at his cost to the nominated Sub-Contractors including free water, electricity, insurance, staging, scaffolding, etc. the Contractor shall be entitled to receive 3% on the cost of the nominated Sub-Contractors' Work.

Nothing shall absolve the Contractor, including the approval/ termination/ nomination of Sub-Contractors by the Owner of his overall responsibility under the Contract to closely supervise the Work of the Sub-Contractor whether on or off the site and to ensure adherence to the Specifications and Schedules.

#### **CLAUSE.5.3. Site office**

#### **CLAUSE.5.4. Fossils:**

#### **CLAUSE.5.5. Insurance**

#### **CLAUSE.5.6. Protection of Persons, Works and Property Accident or Injury to Workmen**

##### **Accident Prevention:**

##### **Hazardous Material Identification.**

##### **Protection of Property**

##### **Watchmen and Security**

##### **Corrective Action**

A. Authority to Stop Work:

B. Rectification:

#### **CLAUSE.5.7. Site Security:**

#### **CLAUSE.5.8. Good for Construction Drawings, Details and Clearance to Construct.**

#### **CLAUSE.5.9. Warranty/Guarantee**

#### **CLAUSE.5.10. Contractor's Responsibilities and Work Control**

##### **Submittals**

A. "Shop drawings" means those drawings or other documents, which are specifically prepared by or on behalf of the Contractor to illustrate details of construction for the purpose of fabrication or installation and are submitted to the Owner to indicate the Contractor's intended method of achieving the end result required by the Contract Drawings and Specifications.

B. "Project data" includes standard drawings, diagrams, layouts, schematics, descriptive literature, illustrations, schedules, performance and test data, and similar materials furnished by the Contractor to explain in detail specific portions of the Work required by the Contract.

C. "Samples" are physical examples, which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

D. "Other submittals" includes progress schedules, setting drawings, testing and inspection reports, and other information required by the Contract Documents to be submitted by the Contractor for information or approval by the Owner.

#### **CLAUSE.5.11. Co-operation with other contractors/specialized agencies/sub-contractors as per CPWD GCC 2014**

#### **CLAUSE.5.12. Rates:**

The rates quoted by the tenderer, shall be firm and inclusive of all taxes (including works contract tax), octroi, entry tax, duties and levies and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning etc. at site i/c temporary constructional storage, risks, overhead charges, general liabilities / obligations and clearance from local authorities, The fee for the inspection of installation by government authorities shall be reimbursed by the department on production of receipts. The contractor has to, however, initially make the payment. Likewise service tax applicable shall be initially paid by the contractor & shall be reimbursed to him by the department after verification of payment receipts etc.

i. **Taxes** :All statutory taxes, duties, Cess or any other payment or deduction due to be paid to any of the central, state or local authority including but not limited to Sales Tax/VAT (except Service Tax),



Building and other Construction Workers Welfare Cess or any other tax or Cess in respect of this contract shall be payable by the contractor and Owner shall not entertain any claim whatsoever in this respect. However, in respect of service tax, same shall be paid by the contractor to the concerned department on demand and it will be reimbursed to him by the Owner after satisfying that it has been actually and genuinely paid by the contractor. **Green tax , ESI and PF shall be borne by the Contractor and no claims on such account will be entertained**

**CLAUSE.5.13. Inspection and rectification of Works Access:**

**Contractor tests:**

**Inspections:**

**Owner's inspections and tests:**

Inspections and tests conducted by or on behalf of the Owner are for the sole benefit of the Owner and do not:-

- (A) *Relieve the Contractor of responsibility for providing adequate quality control measures,*
- (B) *Relieve the Contractor of responsibility for damage to or loss of the material before final completion and acceptance of the Work;*
- (C) *Constitute or imply acceptance. Or.*
- (D) *Affect the continuing rights of the Owner after acceptance of completed Work.*

**Owner inspectors:**

The presence or absence of at Owner's inspector does not relieve the Contractor from any of the obligations under the contract nor is the inspector authorized to change any term or condition of the contract.

**Performance of inspections and tests:**

The Contractor shall promptly furnish, without an additional charge all facilities, labour, and material reasonably needed for performing such safe and convenient inspections and tests as may be required by the Engineer-in-Charge as per the terms of the Contract. The Owner may charge to the Contractor any additional cost of inspection or testing when work is not ready at the time specified by the Contractor for inspection or testing, when prior rejection makes re inspection or retesting necessary. The Owner shall perform all its inspections and tests in a manner that will not unnecessarily delay the work. Special, full size, and performance tests shall be performed as described in the Contract Documents.

The Contractor shall be solely responsible for the protection of all Works so as to avoid any repairs and shall deliver to the Owner upon final completion the Works free of any blemish, defect or damage.

5.13.1 In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by the other agency as and when required by IIITD in addition of the Engineer-in-charge and his authorized representative. The contractor shall at times during the usual working hours and at all times at which reasonable notices of the intention of the Engineer-in-charge to visit the works shall have been given to the contractor, either himself be present to receive the orders and instructions or have a responsible representative duly accredited in writing, to be present for that purpose.

5.13.2 Inspection of the work by Design consultants appointed by the IIITD.

- i. The design consultant appointed by IIITD shall be inspecting the works frequently to ensure that the works are in general being executed according to the design, drawings and specifications laid down in the contract.

**CLAUSE.5.14. Rejected Work as per CPWD GCC 2014**

**CLAUSE.5.15. Limit of price Adjustment**

Provided that, in determining all such price adjustment in accordance with the aforesaid sub-clauses:

- (A) *No account will be taken of any amount by which any cost incurred by the contractor has been increased by default or negligence of the contractor.*
- (B) *If the contractor fails to complete the work within time for completion, no increase or decrease of cost of specified materials shall be made .Only extension of time shall be granted in case delays are not attributable to the Contractor.*

#### **CLAUSE.5.17. SPECIFICATIONS**

In the case of any class of work for which there is no such specifications as referred to in detailed specification, such work shall be carried out in accordance with the Bureau of Indian Standards Specifications. In case there are no such specifications in Bureau of Indian Standards, the work shall be carried out as per manufacturers' specifications, if not available then as per C.P.W.D./District/state P.W.D. / Specifications. In case there are no such specifications as required above, the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-in-Charge. Specifications for a type of work are not covered by the detailed specifications/State P.W.D. specifications/I.S.I specifications or particular specifications, the same shall be decided by the engineer in-charge and shall be binding on the contractor.

The engineer-in-charge shall have the power to insist upon the contractor to purchase and use such materials of particular approved make which may in this opinion be necessary for proper and reasonable compliance with the specifications and execution of work.

In the event of any variation/discrepancy in the drawings, specification and tender documents, the decision of the Engineer In charge shall be final, binding and conclusive on the contractor.

- (A) *As required by the Engineer-in-charge, the contractor shall provide all facilities at site or at manufactures work or an approved Laboratory for testing of materials and/or workmanship, all the expenditure in respect of this shall be borne by the contractor unless specified otherwise in the contract. The contractor shall when required to do so by the engineer-in-charge submit that the materials have been tested in accordance with requirements of the specifications.*
- (B) *Neither the confirmation by the engineer-in-charge not to test the materials nor the production of manufacturer(s) certificate etc. as aforesaid shall affect the right of the engineer-in-charge to reject, after delivery; the materials found not in accordance with the specifications.*

#### **CLAUSE.5.18. Contractor shall submit fabrication/ shop drawings for obtaining approval**

The contractor shall submit fabrication drawing based on GA drawings and design parameters given by the Design Consultants, in triplicate for obtaining preliminary approval of the Engineer-in-Charge for all design drawing already issued to him. One copy of this drawing duly corrected and signed wherever necessary by Design Consultants will be returned to the contractor for preparing and resubmitting drawing after incorporating the said corrections again in triplicate for final approval. Along with the completion and approval of each fabrication drawing the contractor shall also submit the materials list for checking and approval to the Engineer-in-charge. No drawing shall be approved finally without material list. Once the drawing, if finally approved no request for any alternative section will be entertained. The contractor shall submit to Engineer in Charge 4 copies of all approved drawings out of which 2 copies will be issued back to the contractor for the execution of work. The contractor shall also submit copies of design calculations for the works.

#### **CLAUSE.5.19. QUALITY ASSURANCE**

- 5.19.1 The proposed project is a prestigious project and quality of work is of paramount importance. Contractor shall have to engage well-experienced skilled labour and deploy modern T&P and other equipment to execute the work. The type of work will specially require engagement of skilled workers having experience particularly in execution of such items.
- 5.19.2 The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material / work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-charge & contractor shall be bound to replace / remove such sub-standard / defective work immediately. If any material, even though approved by Engineer-In-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.

In addition to the supervision of work by project management consultants, the design consultants appointed by the IIITD shall also be carrying out regular and periodic inspection of the ongoing activities in the work and deficiencies, shortcomings, inferior workmanship pointed out by them shall be communicated by engineer in charge to the contractor. Upon receipt of instructions from Engineer in Charge these are also to be made good by necessary improvement, rectification, replacement up to his complete satisfaction. Special attention shall be paid towards line and level of internal and

external finishing to achieve an Institution of International standard and up keeping of quality assurance shall be of paramount importance, as such.

- 5.19.3 The Contractor shall submit, within 20 days after the date of award of work, a detailed and complete method statement for the execution, testing and Quality Assurance, of such items of works, as directed by the Engineer in-Charge. All the materials to be used in the work, to give the finished work complete in all respects, shall comply with the requirements of the Specifications and shall pass all the tests required as per specifications as applicable or such specifications / standards as directed by the Engineer in-Charge. However, keeping the Quality Assurance in mind, the Contractor shall submit, on request from the Engineer-in- Charge, his own Quality Assurance procedures for basic materials and such items, to be followed during the execution of the work, for approval of the Engineer-in Charge.
- 5.19.4 The Contractor shall procure and provide all the materials from the manufacturers / suppliers as per the list attached with the tender documents, as per the item description and particular specifications for the work. The equivalent brand for any item shall be permitted to be used in the work, only when the specified make is not available. This is, however, subject to documentary evidence produced by the contractor for non-availability of the brand specified and also subject to independent verification by the Engineer-in-Charge. In exceptional cases, where such approval is required, the decision of Engineer-in-Charge as regards equivalent make of the material shall be final and binding on the Contractor. No claim, whatsoever, of any kind shall be entertained from the Contractor on this account. Nothing extra shall be payable on this account. Also, the material shall be procured only after written approval of the Engineer-in-Charge. All materials shall be got checked by the Engineer-in Charge or his authorized supervisory staff on receipt of the same at site before use.
- 5.19.5 The tests, as necessary, shall be conducted in the Laboratory approved by the Engineer-in- Charge. The samples shall be taken for carrying out all or any of the tests stipulated in the particular specifications and as directed by the Engineer-in-Charge or his authorized representative.
- 5.19.6 The Contractor shall at his own risk and cost make all arrangements and shall provide all such facilities including material and labour, the Engineer in-Charge may require for collecting, preparing, forwarding the required number of samples for testing as per the frequency of test stipulated in the contract specifications or as considered necessary by the engineer-in Charge, at such time and to such places, as directed by the Engineer-in- Charge. Nothing extra shall be payable for the above.
- 5.19.7 The Contractor or his authorized representative shall associate in collection, preparation, forwarding and testing of such samples. In case he or his authorized representative is not present or does not associate him, the result of such tests and consequences thereon shall be binding on the Contractor .The Contractor or his authorized representative shall remain in contact with the Engineer-in-Charge or his authorized representative associated for all such operations. No claim of payment or claim of any other kind, whatsoever, shall be entertained from the Contractor.
- 5.19.8 All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested as per the design conditions before covering and their measurements in computerized measurement book duly test checked shall be deposited with Engineer in charge or his authorized representative, prior to hiding these items.
- 5.19.9 The contractor shall give performance test of the entire installation(s) as per the standing specifications before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test.
- 5.19.10 The Contractor shall maintain all the work in good condition till the completion of entire work. The Contractor shall be responsible for and shall make good, all damages and repairs, rendered necessary due to fire, rain, traffic, floods or any other causes. The Engineer-in- Charge shall not be responsible for any claims for injuries to person/workmen or for structural damage to property happening from any neglect, default, want of proper care or misconduct on the part of the Contractor or of any other of his representatives, in his employment during the execution of the work. The compensation, if any, shall be paid directly to the Department / authority / persons concerned, by the Contractor at his own cost.

5.19.11 **Defects Liability Period:**

Defects liability period shall be taken as 12 months from the date of commissioning and hand over of the Project as a whole (as defined in the contract agreement) wherein all the defects shall be rectified by the contractor at his own cost.

**CLAUSE.5.20. Special Conditions -AV Systems**

**5.20.1 SCOPE :**

- i. The scope of all items in AV systems is SITC - Supply, Installation, Testing and Commissioning.
- ii. The agency that is bidding for the total project shall be called as "AV System Works execution agency".
- iii. All and entire responsibility towards the successful execution of the AV Systems of the project shall remain with the AV System Works execution agency .
- iv. Some of the passive cabling system routes have been provided. Same have to be provided by the Works execution agency as per the actual requirements wherever not provided.
- v. The upgrades or enhancement of equipment software and firmware & management applications for same etc shall be free (without any extra cost) to the client.
- vi. The entire equipment shall have OEM certification.
- vii. There shall be a 3rd party inspection at different stages of execution of work; such a 3rd party shall be constituted by IIITD at cost to be borne by IIITD.
- viii. For all AV systems, the equipment shall have all operating software, application software and GUI etc. shall be of the latest versions installed complete. Further the software programmes shall be provided with upgrades and enhancements without any extra cost to the client for the entire contract period and DLP of these products. A soft copy of such programmes /software shall be made available to the client separately in addition to the above.
- ix. At the time of taking over of installation, for all equipments that are covered in
- x. SITC, the works execution agency shall transfer all warranties and guaranties from OEM - original equipments manufacturer - to the client.
- xi. The AV System Works execution agency is advised to provide technical datasheets and specification sheets for approval for all items prior to initiating any supply. Any items having deviations, in absence of specific approval from Engineer-in-Charge, shall be returned whether installed or uninstalled at the risk, liability and expense of the AV System Works execution agency.
- xii. The AV System Works execution agency is advised to inform the Engineer-in-Charge, of any specific requirements for equipments such as heat dissipation, earthing, ventilation etc. before supply so as to incorporate the same at site by other agencies.
- xiii. The AV System Works execution agency is advised to specifically use items only from the make list and provide information on compliance of performance specifications. Make of components required to be used by AV System Works execution agency to complete the installation, if not mentioned anywhere, shall be required to be GOT APPROVED from Engineer-in-Charge in writing before installation

**General**

1. AV system works execution agency shall be a duly registered entity having valid registration with commercial tax, sales tax, service tax, central excise, professional tax & income tax department of the appropriate government departments. The AV System Works execution agency should have been in existence in the business for at least past 05 years.
2. The AV system works execution agency shall be a profit making entity continuously for the past 3 business years ending March 2016. The same shall be substantiated with the submission of audited balance sheet, account statements, profit and loss accounts as applicable.
3. The AV system works execution agency shall have an office/support office in Delhi /NCR .
4. The AV works execution agency must have obtained certification under ISO 9001 or ISO 14001 or both.
5. The AV Contractor shall ensure 24x7 maintenance of equipment for DLP and provide AMC support thereafter in case called for by the IIITD.

- a. Submit separate certificate for Hardware warranty and support individually from OEMs & SI in the name of IIITD Delhi, on their authorized letter-head with sign & seal.
- b. Be responsible for transferring/moving the hardware installed in one physical location to another physical location from the time of initial delivery of hardware through support and defect liability phase.
- c. Provide overview and hands-on training to IIITD staff every quarter in the 1st year of the contract about the whole system which is supposed to be functioning in full pace.
- d. Provide a complete layout diagram, shop drawings and as built drawings that describes the entire physical and logical inter-connectivity with respect to the system.
- f. Complete technical details of all devices and manual ordering/layout and actual Commands /Syntaxes entered in Command-Line or Graphics User Interface mode to configure the devices to start functioning, must be submitted in both soft and hard copies to IIITD authority. Submission of only hardware manuals would not be sufficient.
- g. Provide the full details of the escalation matrix with official address, best reachable phone numbers (both fixed & mobile numbers), reachable fax numbers and working Email Ids.
- h. Provide comprehensive maintenance service, during defect liability period, for all categories of all products covering hardware, software and replacement of defective parts /components. In case of non-availability of identical replacement, suitable new equivalent replacement with similar or better specifications part/software should be made available and resolved within the call response time.
- i. Be responsible to restore any configuration or system and bring back to its original state, if any configuration or system fails.
- j. Also check for potential problems by inspecting cables and cable connections or visual status indicators of covered hardware; checking temperature and humidity levels and comparing them to vendor's recommendations; and installing applicable engineering improvements and firmware updates that are required, in the opinion of Bidder, to maintain the hardware equipment. The SI should also provide a final report on the hardware's condition.
- k. Should replace whole parts or components for any devices for any hardware issue within 2 hours; moreover for any hardware failure for any device (active or passive) a dedicated and exact replica of the device(active or passive) must be kept physically at IIITD campus.
- l. Do periodic preventive maintenance of all the systems once in a quarter (3 months). And reports must be generated and submitted based on the health of the functioning and non-functioning devices to IIITD authority.
- m. Generate & provide daily & monthly reports of the service and all calls received, resolved, pending (due to what reason) in an Excel sheet and/or Hard copies to IIITD.
- n. Keep the uptime at 99.9% of all EQUIPMENT. Only original spare parts must be used. Attend all calls immediately and the same has to be resolved and closed within maximum 24 hours.
- o. Be ready to provide 24x7 support after the working hours or on holidays (both Institute and National declared), if required. Preventative maintenance services is expected to be performed even on Saturday and Sunday regardless of the coverage window.
- p. Normally carry out the maintenance / repair at the premises of IIITD. The System Works execution agency I shall arrange for dismantling, handling and transportation of the Items from the specified location of IIITD to the service center of the bidder and back, at the bidder's own risk and cost, if the machine is to be taken for repairs to their service center.
- q. Bear all cost related to the preventive and corrective maintenance, during the period of support &defect liability. Spare parts / equipment, tools, lubricants, cleaning kits, drives, disks, other hardware parts, service personnel etc., required to repair / replace the faulty equipment shall be arranged by the bidder at his own cost during the currency of the defect liability period.
- r. Periodically check the health of all equipment and get the data backup on daily basis as applicable.

5.20.2 **Terms of payment: 70% on supply of major equipment ;20% on installation ;10% on satisfactory testing and commissioning.**

5.20.3 **Completeness of tender:**

All sundry equipment, fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections, and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specifically mentioned in the tender documents or not.

5.20.4 **Inspection and Testing**

For items / equipment requiring initial inspection at manufacturer's works in India or overseas, the contractor will intimate the date of testing of equipments at the manufacturer's works before dispatch. The department also reserves the right to inspect the job at factory and the successful tenderer has to make the arrangement for the same. The successful tenderer shall give sufficient advance notice regarding the dates proposed for such tests / inspection to the Engineer-in- Charge to facilitate their presence during testing . The Engineer-in-charge at their discretion may witness such testing . If the tests fail, then the cost of the travel, lodging and boarding of the inspection team of the Owner shall be borne by the contractor for all subsequent visits till the tests are satisfactorily conducted.

5.20.5 **Storage and custody of materials:**

The agency has to make their own arrangement for storage of their materials. Watch and ward of the stores and their safe custody shall be the responsibility of the contractor till the final taking over of the installation by the department.

5.20.6 **Care of the Building:**

Care shall be taken by the contractor while handling and installing the various equipment and components of the work to avoid damage to the building or other services already installed at he site by other contractors. They shall be responsible for repairing all damages and restoring the same to their original finish at their cost. They shall also remove at their cost all unwanted and waste materials arising out of the installation from the site of work.

5.20.7 **Performance Guarantee:**

The tenderer shall guarantee among other things, the following vis-à-vis specifications. Satisfactory operation during the maintenance period.

5.20.8 **Power Supply:**

Power Supply for the purpose of its scope of works shall be vendors responsibility. The vendor may have an arrangement with the principal contractor at one point on chargeable basis..

5.20.9 **Data and Program to be furnished by the tenderer:**

1. With the Tender the tenderer shall furnish detailed technical literature, pamphlets and performance data for appraisal and evaluation of the offer.
  - a) The contractor shall prepare and submit a tentative Bar Chart clearly indicating the various activities, in a manner to complete the entire work covered under this tender within the stipulated period.
2. After Award of Work:
  - a) The Contractor shall prepare the programme chart for the execution of the work showing clearly all activities from the start of work to the completion, with details of requirements of materials, man power, equipments and machinery deployment, required for the completion of the work within the stipulated period and submit the same to the Engineer-in-Charge within fifteen days after the issue of letter for commencement of the work. The Contractor shall also submit monthly program and

progress reports and update / reschedule the same every month. These shall be submitted by the contractor in soft copy also besides forwarding hard copy of the same.

5.20.10 The successful tenderer should furnish well in advance three copies of detailed instructions and manuals of manufacturers for all items of equipments regarding installation, adjustments, operation and maintenance i/c preventive maintenance & trouble shooting together with all the relevant data sheets, spare parts catalogue and workshop procedure for repairs, assembly and adjustment etc all in triplicate.

5.20.11 **Extent of work:**

- a) The work shall comprise of supply, installation , testing and commissioning of AV systems including labour and supervision and all materials necessary to make a complete installation and such tests and adjustments and commissioning as may be required by the department. The term complete installation shall not only mean major items of the plant and equipments covered by Technical Specifications but all incidental sundry components necessary for complete execution and satisfactory performance of installation with all layout charts whether or not those have been mentioned in details in the tender documents in connection with this contract. 12.2

5.20.12 **Compliance with Regulations and Indian standards**

12.1 All works shall be carried out in accordance with relevant regulation, both statutory and those specified by the Indian Standards related to this work. In particular, the equipment and installation shall comply with the following:

- a. Factories Act
- b. Indian Electricity Rules
- c. I.S. & BS Standards as applicable
- d. Workmen's compensation Act
- e. Statutory norms prescribed by local bodies

12.2 Nothing in this tender shall be construed to relieve the successful tenderer of their responsibility for the ,Supply installation and Commissioning of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes.

5.20.13 **Indemnity:**

The successful tenderer shall at all times indemnify IIITD, consequent on this works contract. The successful tenderer shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the department shall not be responsible for any accident or damage incurred or claims arising there from during the period of erection, construction and putting into operation the equipments and ancillary equipment under the supervision of the successful tenderer in so far as the latter is responsible. The successful tenderer shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer due to the above.

5.20.14 **Erection Tools:**

No tools and tackles either for unloading for shifting the equipments for erection purposes would be made available by the Owner. The successful tenderer shall make own arrangement for all these facilities.

5.20.15 **Cooperation with other agencies:**

The successful tender shall co-ordinate with other contractors and agencies engaged in the construction of the building and exchange freely all technical information so as to make the execution of this works contract smooth. No remuneration should be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any existing portion of the building has to be dismantled and re-done for want of cooperation and coordination by the successful tenderer during the course of work, such expenditure incurred will be recovered from

the successful tenderer if the restoration work to the original condition or specification of the dismantled portion of the work was not undertaken by the successful tenderer himself. Water proofing of pits shall not be damaged under any circumstances.

**5.20.16 Verification of correctness of Equipment at Destination:**

The contractor shall have to produce all the relevant records to certify that the genuine equipment from the manufacturers has been supplied and erected.

**5.20.17 Order of Preference:**

Should there be any difference or discrepancy between the description of items as given in the Schedule of Quantities, technical specifications for individual items of work (including additional and commercial conditions) and IS Codes etc., the following order of preference shall be followed:

1. Schedule of quantities
2. Additional and Commercial Conditions
3. Technical specifications specified in the tender
4. General Conditions of Contract for CPWD Works
5. Drawings
6. CPWD General Specifications
7. Relevant IS or any other International code in case IS code is not available.



## SOUND REINFORCEMENT AND VIDEO PROJECTION EQUIPMENT

### SPECIAL CONDITIONS OF CONTRACT

#### 1. Scope work

- 1.1. The contract is for the supply of all necessary materials and new equipment, detailed design and preparation of all necessary drawings, and the testing, installation, and commissioning of the sound and projection systems along with the wiring of the equipment in the conduits.

The contract shall include the following:

- 1.2. All necessary materials and equipment and the installation, testing and commissioning of the equipment as specified complete with all necessary electric wiring to connect the sources of power supply to the equipment.
- 1.3. Spares as listed plus any additional spares recommended by the manufacturers for five years operation.

#### 2. Contractor's Responsibility

- 2.1. It is the intention of the specifications to specify the principal performance and requirements for the sound and projection systems.
- 2.2. The tenderer shall fulfill the performance design criteria of providing high quality sound reinforcement / recording system catering to speech and music, providing an average continuous peak SPL as specified for the auditorium, black box and the recording studio, individually.
- 2.3. In addition to submitting his drawings for approval, the contractor shall, whenever called upon to do so, submit for the approval of the Engineer his calculations justifying his various proposals together with such explanations, substantiations, and other data that may be necessary. The Contractor shall additionally submit the acoustics model of the sound reinforcement system, using internationally accepted real-time sound simulation software. If required to do so by the Engineer, he shall amend the basis of his calculations and shall resubmit them together with fresh proposals based on the revised calculations.
- 2.4. The contractor shall be required to submit detailed circuit diagrams of all equipment for approval before award of work.
- 2.5. The Contractor shall submit the sound system design along with EASE mappings to authenticate the performance of the system provided.

#### 3. Completeness of Contract

All special fixtures, control devices etc. not specifically mentioned but that are usual for the safety and efficiency of the audio and video equipment shall be included in the supply without any extra cost to the contract.

**4. Departure from Specifications**

The work shall be carried out according to specifications. Any deviation from these specifications either on account of manufacturing practices or for any other reason including the measures for additional efficiency and/or safety of the equipment under clause 3.0 above shall be clearly stated in a covering letter explaining in detail each and every departure the contractor proposes to make from the tender giving reasons thereof. Unless specifically mentioned it will be assumed that the tenderer agrees to supply all equipment and complete the work exactly as specified therein and as shown in the drawings in its entirety. All deviations shall be subject to the approval of the engineer.

**5. Installation of Equipment**

The layout and installation of the equipment shall be planned and carried out conforming to the best engineering and international practices. The successful tenderer shall furnish drawings showing complete layout of the equipment as also layout showing the location of the consoles etc. The installation of the various equipment and wiring of these units shall be such that these are easily accessible for maintenance and routine check-up.

**6. Wiring of the Entire System**

- 6.1. The wiring of the entire system shall be neat and conforming to good engineering practices. The successful tenderer shall furnish wiring layout scheme (conforming to layout of conduits already laid) including specifications for wires and cables he proposes to use for -
  - 6.1.1. Audio wiring.
  - 6.1.2. Wiring for loudspeakers
  - 6.1.3. Power supply to the technical equipment.
  - 6.1.4. Earthing system.

**7. Descriptive Literature**

The tenderer shall supply a complete list with quantities of major items of equipment together with detailed descriptive literature including photographs and performance characteristics pertaining to the equipment offered.

**8. Training/Technical Data**

The successful tenderer shall be required to impart training in the use and maintenance of equipment as also furnish the following data:

- 8.1 Overall audio-video system design offered including jack/patch points.
- 8.2 Detailed shop drawings and wiring installation scheme for all equipment and entire system.
- 8.3 Detailed circuit diagrams of individual equipment
- 8.4 Factory test reports.
- 8.5 Manuals and instructions for installation, operation and maintenance of all equipment and the sound and projection system. Minimum of four sets of such manuals and instructions are required for each equipment, to be furnished in bound volumes.
- 8.6 A final drawing showing layout of the equipment with a soft copy of the same
- 8.7 Realtime sound simulation mapping on EASE or other internationally accepted sound simulation software.

**9. Inside Temperatures and Humidity**

All equipment should be capable of performing satisfactorily in an ambient temperature of 45 deg C and 80% humidity.

**10. Standards**

The materials used in the equipment shall conform to and be supplied in accordance with the latest revision of relevant IS, BS, DIN or IEC standards or equivalent current at the time of tender. All the work shall also conform to the requirements of local codes and regulations.

Tenderer should justify the particular standard chosen with reference to the operating context.

**11. Guarantee**

The successful tenderer shall furnish a guarantee for a minimum period of one year from commissioning date during which all equipment failing due to the faulty manufacture shall be replaced free of cost. The successful tenderer shall also guarantee the performance figures of the individual equipment. Commissioning shall be deemed to have taken place after award of "Acceptance Certificate" which would be signed and dated.

**12. Name Plates**

Instruction plates, name plates and labels shall be provided before commissioning of all equipment requiring indication of operation and should be such size as to be readable at operational levels. The language of all such plates shall be in English. Plastic or screen printed labels shall not be acceptable.

## LECTURE THEATRE SOUND REINFORCEMENT AND VIDEO PROJECTION EQUIPMENT

### PARTICULAR SPECIFICATIONS

#### **1. General**

- 1.1. The work under the contract shall be carried out in accordance with the schedule of items of work, the particular specifications drawings forming part of this tender document, and the general conditions and other provisions of the tender.
- 1.2. The system shall be designed in accordance with the appropriate BS, DIN or IEC recommendations.

#### **2. Functional Requirements**

- 2.1 To provide a high quality sound reinforcement and video projection system in the Auditorium, for the reinforcement of 'live' programs on stage.
- 2.2 To provide playback of pre-recorded material from any digital media player, and recording of 'live' stage programs.
- 2.3 To provide a video projection system with a DVD/Blueray/ Hard disk based media players and computer connectivity, to screen motion pictures and computer presentations.

#### **3. Proposed Design**

- 3.1. The sound reinforcement system In the hall is required to serve the requirements for theatre, speech and musicals. The specifications call for several microphones, a mixing console, signal conditioning and processing, power amplifiers and loudspeakers suitable for speech and music reinforcement chosen for adequate coverage of the seating areas.
- 3.2. Several microphone points to be provided in wall boxes for microphones as indicated in the drawings.
- 3.3. All microphone points to be wired to jack strips (patch bays). Microphone points will be assigned in a completely flexible manner to the input of the console by appropriate patching. Selected jack points to be normalled through as required by the Owner/ engineer.
- 3.4. A multi-channel digital mixing console will be used with a networkable Digital Loudspeaker Processor, for the auditorium, with sufficient inputs and outputs, as stated in the technical specifications. Similarly, multi-channel audio mixers are to be provided in classrooms, as per specifications given.
- 3.5. The sound is provided through long throw high level full range loudspeakers aiming the throw at each portion of the auditorium, comprising of LF and HF driver loaded loudspeaker system.
- 3.6. To reproduce the low frequencies in music and video projection sound, sub-woofers have been provided.
- 3.7. Several power amplifiers drive the complement of the main, sub-woofer, fold-back and green-room loudspeakers.
- 3.8. All equipment will be housed in 19" DIN equipment racks and line level inputs and outputs of all the equipment would be brought on to jack strips for patching, testing and maintenance purposes.
- 3.9. A stage monitoring/ fold back speaker chain has been provided with the distribution of outlets as shown in drawing.
- 3.10. All microphone and loudspeaker cabling will run in steel conduits. Cables will be as specified.
- 3.11. The design provides for the provision of Lecterns, completely fitted with PC, monitor/ touch-screen for controls, gooseneck microphone and laptop points, completely pre-wired for complete AV connectivity.
- 3.12. The lecture facilities are provided with video projection/ conferencing system as per designs of individual areas, custom designed for playback of video content, and seamless control of each component, as specified.

- 3.11. The contractor would be responsible for the installation, testing and commissioning of the entire system.

#### 4. Design Guidelines

While offering specific equipment, the following shall be borne in mind:

- 4.1. The equipment and system shall be of modular design to facilitate both expansion and service, and shall be completely solid state. The equipment shall be of simple and sturdy design, chosen with long term reliability in mind and corresponding parts shall be made interchangeable wherever possible having flexibility of design.
- 4.2. The outgoing program from the control room shall be controlled by the operator. The main control consoles shall therefore incorporate comprehensive visual and aural monitoring facilities, and shall be user friendly.
- 4.3. Input/ output connection for all components are required to be brought onto two rows jack fields(pre-wired) for ease of maintenance. Permanently connected equipment will be 'normalised' through the jack and patch cords with plugs provided for special inter-connection wherever necessary.
- 4.4. All terminations at any point of the system will be soldered on terminal strips.
- 4.5. All microphone wiring and line level wiring upto and including the mixing console would be screened and PVC jacketed cable consisting of balanced two wire plus shield. All wiring to be balanced with respect to ground.
- 4.6. The entire sound reinforcement system shall be capable of being monitored on the computer using single window OEM software on the PC.

#### 5. Performance

A professional sound reinforcement and video projection system have been proposed.. The performance of the system after installation must meet the following specifications.

- 5.1. Maximum program (continuous average) level in the listening areas 95dB  $\pm$  3dB SPL.
- 5.2. The frequency response of the system should confirm to recommended house curve for theatre from 50Hz to 12kHz. The loudspeakers should be aimed and aligned for a better than +3dB uniformity of coverage, front to back and side to side, in the range of 250Hz to 6kHz.
- 5.3. The system to be equalized in 1/3 octaves using a real time analyzer so as to give maximum acoustic gain. The system response must also be equalized to confirm to recommended house curve.
- 5.4. Hum, noise or distortion at maximum gain settings should not exceed 35dB SPL in the listening areas.
- 5.5. **The contractor shall provide EASE or other sound simulation software model, to endorse their achieving of desired tender requirements. The design must also achieve speech transmission index (STI or RaSTI) of over 0.7 in over 90% of the audience area, and above 0.65 in 100% of the audience area. This is the test for assuring excellent speech intelligibility.**
- 5.6. Post commissioning, the tenderer shall perform Real Time Sound Analysis to verify that they have physically achieved the desired tender requirements.
- 5.7. For guidance of the Contractor, it is stated that the auditorium acoustics provides a reverberation time (RT60) of between 1-1.4 seconds across the frequency spectrum.

## SECTION 6

### SAFETY CODES AND RULES

1. Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable footholds and hand-hold shall be provided on the ladder and the ladder shall be given an inclination not steeper than  $\frac{1}{4}$  to  $1\frac{1}{4}$  horizontal and 1 vertical.)
2. Scaffolding of staging more than 3.6 m (12ft.) above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guardrail properly attached or bolted, braced and otherwise secured at least 90 cm. (3ft.) high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends there of with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
3. Working platforms, gangways and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 3.6 m (12ft.) above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as described in (2) above.
4. Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of person or materials by providing suitable fencing or railing whose minimum height shall be 90 cm. (3ft.)
5. Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m. (30ft.) in length while the width between side rails in rung ladder shall in no case be less than 29 cm.(11½") for ladder up to and including 3 m. (10 ft.) in length. For longer ladders, this width should be increased at least  $\frac{1}{4}$ " for each additional 30 cm. (1 foot) of length. Uniform step spacing of not more than 30 cm shall be kept. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites or work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provide all necessary fencing and lights to protect the public from accident and shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit; action or proceedings to any such person or which may, with the consent of the contractor, be paid to compensate any claim by any such person.
6. Demolition/ dismantling - Before any demolition/dismantling work is commenced and also during the progress of the work,
  - (i) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
  - (ii) No electric cable or apparatus which is liable to be a source of danger or a cable or apparatus used by the operator shall remain electrically charged. (iii) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.
7. All necessary personal safety equipment as considered adequate by the Engineer-in-Charge should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use, and the contractor should take adequate steps to ensure proper use of equipment by those concerned .**WARNING/ CAUTION BOARDS:** All temporary warning / caution boards / glow signage display such as "Construction Work in Progress", "Keep Away", "No Parking", Diversions & protective Barricades etc. shall be provided and displayed during day time by the Contractor, wherever required and as directed by the Engineer-in-Charge. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be solely responsible for damage and accident caused, if any, due to negligence on his part. Also he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the Engineer - in - Charge. Nothing extra shall be payable on this account.

**FORM- K CHECK LIST FOR TENDERER**

Sr. No.	Check Item	Yes/No	No of Pages
	<b>Received and studied the following documents</b>		
	Main Tender Document including the NIT, General Conditions of Contract, Special Conditions of Contract, Technical Specifications and Tender Forms & Formats in the soft copy .		
	Bill of Quantities in the. xlsx format containing ..... work sheets in one workbook. The last row number with relevant data in various sheets in the work book are .....		
	Total number of tender drawings received and studied		
	Cover letter is complete on the company letterhead and signed by the authorized signatory and stamped with company seal.		
	The tender being filled is in total compliance with the terms specified and there is no assumption of any special condition in addition to what has been specified in the tender documents by the owners		
<b>Envelope 1: Earnest Money and E Tender processing fee</b>			
	EMD for the total amount		
	Tender Processing Fee Receipt		
	Envelope marked as Envelope 1 on Top and titled as "Earnest Money and Tender processing fee"		
	Envelop 1 is sealed and signed		
<b>Envelope 2 will contain the following documents in three separate envelopes A, B &amp; C and will be titled "Eligibility Documents"</b>			
<b>Envelope A: Pre Qualification Documents</b>			
	Documents certified by a chartered accountant in support of Average Annual Financial Turnover during the last 3 years, ending 31st March 2016 of the previous financial year has been submitted and the average annual financial turnover is more than or equal to 30% of the estimated cost		
	Documents in support of having successfully completed similar works during last 5 years as mentioned below Three similar completed works costing not less than the amount equal to 40% of the estimated cost or two similar completed works costing not less than the amount equal to 60% of the estimated cost or one similar completed work costing not less than the amount equal to 80% of the estimated cost.		
	Proof of having completed at least one similar work with costing not less than 40% of the estimated project cost with some Central/State Government Department/ Autonomous Body/Central Public Sector Undertaking/ State Public Sector Under taking or any other project which has been funded more than 50% by a fund of public nature		
	Solvency Certificate		
	Envelope marked as Envelope A on Top and titled as "Eligibility Documents"		
	Envelop A is sealed and signed		
	Soft copy of the tender documents in CD/pen drive		

	<b>Envelope B: Technical Eligibility Documents</b>		
	Form A to J completed, signed, stamped and put together in envelope B		
	Envelope marked as Envelope B on Top and titled as "Technical eligibility documents"		
	Envelope B is sealed and signed		
	<b>Envelope C Other Documents</b>		
	Signed and stamped all the pages in Volume 1 of the tender document (NIT, summary of the tender, Instructions to tenderers, GCC and SCC)		
	Signed and stamped all the pages in Volume 2 of		
	The tender documents (Pre-amble, technical specifications)		
	Signed and stamped all the drawings		
	All these documents put together in envelope C and Envelope marked as Envelope C on Top and titled as "Other Documents"		
	Envelope C is sealed, signed and stamped		
<b>ENVELOPE FOR TECHNICAL TENDER:</b>			
	"Tender for Package IV AV System of Permanent Campus for IIITD Delhi". The main envelope containing all the documents.		
	<b>Envelope 1 and 2</b> put together in <b>Envelope for Technical Tender</b> and Envelope marked as <b>Technical Tender Document</b> for the "Tender for Package IV AV System of Permanent Campus for IIITD Delhi".		
	Envelope for Technical Tender is sealed, signed and stamped		
<b>ENVELOPE FOR FINANCIAL TENDER</b>			
	Rates for all the items in the Bill of Quantities filled and uploaded on the tender portal and a hard copy of the same with signature and seal on all the pages is being submitted in envelope		
	Envelope marked as Envelope for Financial Tender on Top and titled as " <b>Financial Tender</b> "		
	for the "Tender for Package IV AV System of Permanent Campus for IIITD Delhi"		
	Envelope is sealed, signed and stamped		



**BOQ for Sound reinforcement,Video Projection & Presentation System**

S No.	Description	TOTAL QTY	Unit	U rate	Total Price	Taxes	Amount
<b>SH - I Audio - Sound Re-inforcement System</b>							
1	Supply , Installation , testing and commissioning of FOH Left / Right Arrayable 2 way full range switchable passive/bi-amp loudspeaker consisting of 12" LF driver and 1.4" or better HF compression driver with LF: 500 Watts or more rms power, HF: 75W or more @8 Ohms,frequency response 60 Hz to 16 kHz, Dispersion Angle :60-70° H x 40-50° V rotatable dispersion, Sensitivity 95 dB or more, maximum SPL: 129 dB peak or better, Birch plywood enclosure complete with standard accessories and supplied with all Mounting / Hanging arrangement for mounting / hanging main FOH loudspeakers flying kit	6	Nos.				
2	Supply , Installation , testing and commissioning of FOH Left / Right Arrayable 2 way full range switchable passive/bi-amp loudspeaker consisting of 12" LF driver and 1.4" or better HF compression driver with LF: 500 Watts or more rms power, HF: 75W or more @8 Ohms,frequency response 60 Hz to 16 kHz, Dispersion Angle: 80-90° H x 40-60° V rotatable dispersion, Sensitivity 95 dB or better, Maximum SPL: 129 dB peak SPL or better complete with standard accessories, Birch Plywood Enclosure and supplied with all Mounting / Hanging arrangement for mounting / hanging main FOH loudspeakers flying kit	6	Nos.				
3	Supply , Installation , testing and commissioning of Front / Stage Fill Left / Right 2 Way full range passive Loudspeaker with one 8"LF driver and one 1" HF compression driver,180 Watts rms power or better @ 8 Ohms,frequency response 60 Hz to 16 kHz , Dispersion: 80-90° H x 50-60° V Nominal dispersion, 94 dB or better sensitivity, Maximum SPL(peak)122 dB or better, complete with standard accessories, flying hanging bracket etc for mounting .	6	Nos.				
4	Supply , Installation , testing and commissioning of Hanging /Arrayable Dual 12" Band Pass Subwoofer with 800 Watts rms or better @ 4 ohms, Frequency Response 55 Hz to 140 Hz or better, Sensitivity 99 dB or better, 134 dB peak SPL or better, Birche Plywood Enclosure with standard accessories with all Mounting / Hanging arrangement for FOH subwoofer	4	Nos.				
5	Supply, Installation, testing and commissioning of Floor monitors 1000 Watt 2 Way Powered Loudspeaker,12" Low frequency driver,1" High frequency driver,Frequency response (-10dB) 50 Hz-20 kHz, Nominal dispersion 80-90° H x 50-60° V ,Maximum SPL 124 dB or better, Class D Amplifier .complete with standard accessories as per the tender specifications .	4	Nos.				
6	Supply, Installation, testing and commissioning of Compact 2 way full range surface-mount loudspeakers with Line Transformers, 30 Watts @16/8 Ohm rms,1 x 3.5" LF driver or better ,1 x 0.75"HF or better soft dome driver ,90 Hz to 18 kHz(-10dB) or better frequency response, 120 x 100 coverage , 86 dB Sensitivity, 108 dB peak SPL or better; complete with standard accessories	2	Nos.				
7	Supply, Installation, testing and commissioning of Surface Mount Speaker with Frequency Response: 90 Hz - 16 kHz or better ; RMS Power : 60 Watts or better @ 8 Ohms, Peak Power 240 Watt or better ; Sensitivity: 87 dB or better ; Max SPL: 110 dB SPL or better ; Driver Size Min. 5.25"-6" or better complete with standard accessories	20	Nos.				
8	Supply, Installation, Testing and Comissioning of 4-Channel Class TD/D Power Amplifier delivering 4 x 1200 W @ 4 Ohms, 4 x 1000 W @ 8 ohms, 1200 W @ 4 ohms bridged, 2400 W @ 8 ohms bridged, THD at rated Power < 0.1% ,Signal to Noise Ratio >110 dBA or better, Frequency Response 20 Hz - 20kHz, CMR: > 50 dB complete with standard accessories.	3	Nos.				
9	Supply, Installation, Testing and Comissioning of 2-Channel 2400 W power amplifier, delivering 2x 1200 W @ 4 Ohms, 2x 600 W @ 8 Ohms, THD at rated Power <0.1%,Signal-to-Noise ratio >103 dBA, Frequency Response 20Hz-20kHz, CMR: >50dB complete with standard accessories	2	Nos.				
10	Supply, Installation, Testing and Comissioning of 2-Channel 800W Class TD/ D Power Amplifier delivering 2 x 400W per channel, Impedence 8/16 ohms,THD 20 Hz - 20 kHz at 1W <0.1%,Signal to Noise Ratio >112 dBA,Frequency Response 2 Hz - 40 kHz,CMR 50 dB,Sensitivity 4 dBu complete with standard accessories.	3	Nos.				
11	Supply, Installation, Testing and Comissioning of 2-Channel Class TD/ D Power Amplifier delivering 60W or more output power into 8,4 Ohms, Signal-to-Noise Ratio >92 dBA,Frequency Respose 20Hz - 20 kHz, complete with standard accessories.	1	Nos.				

S No.	Description	TOTAL QTY	Unit	U rate	Total Price	Taxes	Amount
12	Supply, Installation, testing and commissioning of Class D / TD Dual Channel Power Amplifier with 2x 120W @ at 8 Ohms per channel or better having THD < 0.3%, S/N ratio: >90 dBA with complete standard accessories	5	Nos.				
13	Supply, Installation, testing and commissioning of 18-Channel,16 programable mic Preamps, 4 Stereo FX , 6 XLR aux output, 2 XLR main outputs, Bidirectional USB interface, 16x16 I/O MIDI Channels, remote operation via Ethernet , Wifi complete with standard accessories as per the tender specifications .	2	Nos.				
14	Supply, Installation, Testing and Comissioning of Audio DSP , 12 in or better, min 8 out or better networkable Digital Loudspeaker Processor; A/D and D/A Converter 24 bit or better; Sampling rate: 48 kHz or better; Signal to noise ratio: 100 dB or better; THD: <0.01% or better; DSP features like Feedback Supressor, InputCompressor, Limiter, EQ'S, Crossover,Delays, Routers, Matrix mixres, Duckers etc as per the site requirement complete with standard accessories as per the tender specifications , Controls: Ethernet (RJ45)	3	Nos.				
15	Supply, Installation, Testing and Comissioning of Audio DSP , 5 input 4 output , A/D and D/A Converter 24 bit or better; Sampling rate: 48 kHz or better; Signal to noise ratio: 100 dB or better; THD: <0.01% or better; DSP features like Feedback Supressor, EQ'S, Crossover,Delays, Routers, Matrix mixres, Duckers complete with standard accessories as per the tender specifications , Controls: Ethernet (RJ45)	5	Nos.				
16	Supply, Installation, testing and commissioning of handheld microphone with dynamic transducer; Polar pattern: supercardioid; Audio Bandwidth : 50Hz to 15kHz or better ; Sensitivity Min 1.85mV or better ; Nominal Impedance 600 ohms or better , Connection: 3 Pin XLR male	9	Nos.				
17	Supply, Installation, testing and commissioning of UHF wireless handheld microphone with True diversity receiver with Auto Scan function. Transducer Type: Dynamic. , Transmitter Transmission range: 100 mtrs or better , polar pattern: supercardioid ; Audio bandwidth: 80 Hz to 15kHz or better; THD: <0.9% or better; RF Power : Min 10mW or better ; S/N Ratio: >103 dB or better, Max SPL: 140 dB or better	6	Nos.				
18	Supply, Installation, testing and commissioning of UHF wireless Lapel microphone, True Diversity receiver with Auto Scan function . Microphone Transducer Type: Condenser, polar pattern: Omni Directional ; Audio bandwidth: 80 Hz to 15kHz or better; THD: <0.9% or better; RF Power : Min 10mW or better ; S/N Ratio: >103 dB or better, Transmitter Transmission range: 100m, Max SPL: 120 dB or better	4	Nos.				
19	Supply, Installation, testing and commissioning of gooseneck microphone with gooseneck length of 15" or better; Polar pattern: Cardioid / hypercardioid / supercardioid; RFI Shielding; S/N Ratio: 65 dB or better; Max SPL: 107 dB or better; Frequency Response: 50 Hz to 17kHz or better with LED indicator.	11	Nos.				
20	Supply, Installation, testing and commissioning of UHF Antena Distribution System to support upto 4 Wireless mics, Optimised for 470 Hz to 800 MHz Frequency Response, Gain : 1	2	Nos.				
21	Supply, Installation, testing and commissioning of UHF Antenas compatible to the antenna distribution system	4	Nos.				
22	Supply, Installation, testing and commissioning of VHF wireless handheld microphone with Diversity receiver 8 or more selectable channels/Preset per band, LCD display on Reciever, Audio output 3pin XLR / 1/4" Jack, Frequency Response: 110 Hz to 16kHz or better.	4	Nos.				
23	Supply, Installation, testing and commissioning of VHF wireless headworn microphone with Diversity Receiver, 8 or more selectable channels/Preset per band, LCD display on Reciever, Audio output 3pin XLR / 1/4" Jack, Frequency Response: 110 Hz to 16kHz or better. Transmitter range upto 100mtrs, Dynamic range: 110dB or better	4	Nos.				
24	Supply, installation,testing & comissioning of Chairman Gooseneck conference microphone, 15" or more length continuously flexible, flush/Table Top on table with mute on/off button & priority/ clear button, cardoid polar pattern,Frequency Response: 50 Hz to 17 kHz or better Daisy chaining on RJ45. Supplied with all microphone connecting cables and connectors required for complete installation.	1	Nos.				
25	Supply, installation,testing & comissioning of Delegate Gooseneck conference microphone, 15" or more length continuously flexible, flush/Table Top on table with mute on/off button, cardoid polar pattern,Frequency Response: 50 Hz to 17 kHz or better Daisy chaining on RJ45. Supplied with all microphone connecting cables and connectors required for complete installation.	39	Nos.				
26	Supply, Installation, Testing and Commissioning of Central Conference Controller with auomatic audio channel allocation. Min 50 microphones to be daisy chained, fixed audio channel per chairman unit, RS232 interface for control and configuration, Frequency Response: 25Hz to 15 kHz	1	Nos.				

S No.	Description	TOTAL QTY	Unit	U rate	Total Price	Taxes	Amount
27	Supply, Installation, testing and commissioning of 5 Point Junction Box with 3 Point XLR Inputs & 1 Point Speakon Connector complete with standard accessories .	8	Nos.				
28	Supply, Installation, testing and commissioning of 3 point Junction Box with 4 Point XLR Inputs Connector complete with standard accessories .	2	Nos.				
29	Supply, Installation, testing and commissioning of UL Listed Connectors complete with standard accessories .	3	Lot				
30	Supply, Installation, testing and commissioning of Microphone stand (Long): Light weight tripod alluminium Microphone stand with Long Arm, boom type & chrome plating complete with standard accessories .	12	Nos.				
31	Supply, Installation, testing and commissioning of Microphone stand (Short): Light weight tripod alluminium Microphone stand with short Arm, boom type & chrome plating complete with standard accessories .	6	Nos.				
32	Supply, Installation, testing and commissioning of Speaker Cable: 2 core 2.5 sq mm PVC insulated Cu conduction loudspeaker cable complete with standard accessories .	2900	Mtrs.				
33	Supply, Installation, testing and commissioning of Microphone Cable: 2 core PVC insulated Cu conduction sheilded microphone cable complete with standard accessories .	1300	Mtrs.				
<b>Total Amount SH - I</b>							
<b>SH - II</b>	<b>Video - Projection and Presentation System</b>						
34	Supply, Installation, testing and commissioning of DLP / 3 LCD Projector with 7000 ANSI Lumens or better ; Resolution : 1920 x 1200 WUXGA; Contrast: 3000:1 or better ; Inputs Min 2 X HDMI / DVI , 1 X HD-Base-T ; 1 X VGA ; HDCP & HD Base-T Complianace ; Control: RJ45 LAN control as communication port ; Lamp life : 3000 Hrs (Eco Mode) or more with appropriate lens required for projection below metioned projection screen of 297" diagonal from a standard distance (Approx 17ft) complete with accessories.	3	Nos.				
35	Supply, Installation, testing and commissioning of 3 LCD Projector or better with 4000 ANSI Lumens or better ; Resolution : 1920 x 1200 WUXGA; Contrast: 2500:1 or better ; Inputs Min 1 X HDMI , 1 x DVI /HDMI, 1 X HD-Base-T ; 1 X VGA ; RS232 & RJ45 LAN as Control port ; Lamp life : 3000 hrs Hrs or more with Standard lens complete with standard accessories	5	Nos.				
36	Supply, Installation, testing and commissioning of Projector Mounting Kit for mounting/Fixing for 7000-8000 ANSI lumens projector complete with standard accessories	3	Nos.				
37	Supply, Installation, testing and commissioning of Fixed Projector Mounting Kit for 4000 ANSI lumens complete with standard accessories	11	Nos.				
38	Supply and Installation of fixed screen with 297" diagonal screen or more, with 16:10 aspect ratio, Matte White fabric, Supplied with framing arrangement ; anchorage and instalation at site with standard accessories complete in all respects	3	Nos.				
39	Supply, Installation, testing and commissioning of Motorised Screen - 123 in 16: 10 aspect ratio with IR Remote , supplied with Low Voltage/ High Voltage relay controller complete with standard accessories	5	Nos.				
40	Supply, Installation, testing and commissioning of Wooden cabinet Podium as per room aesthetic with Facility to place Button based AV control panel / 10" Touch control Panel, Podium Gooseneck microphone, Laptop, PC, Passive wall plate, tablet 15.6" or more, supplied with 2 Universal AC Power ,PDUs as required for the equipments, Sliding/Foldable Tray for Laptop, Keyboard-Mouse, Sliding Enclosure for Visualiser, LED Lamp complete with all accessories, cable connectors , stage floor junction box with accessories and flip up top cover as per enclosed photographs.	8	Nos.				
41	Supply, Installation, testing and commissioning of Passive Wall Plate with HDMI & VGA & AUDIO ports a. This is to be placed on the top of the podium complete with all accessories	4	Nos.				
42	Supply, Installation, testing and commissioning of Full HD Gooseneck Visualizer with VGA, HDMI output, 16x or more Zoom,12x or more digital zoom, 30fps frame rate,output resolution: upto 1080p, Built in memory, image rotation: 0deg, 180deg, Flip,mirror complete with all accessories.	3	Nos.				
43	Supply, Installation, testing and commissioning of Presentation Switcher cum Scalar with 4 or more HDMI inputs ,2 or more VGA , 2 or more Audio inputs ; 1 or more HDMI output; 1 HD BaseT (inbuilt or through transmitter) , Deembedded analog audio output, HDCP compliant with EDID mangement, Auto Switching with seamless switching, Resolution: 1920 x1200 or better, Flexible control options viz Front Panel, with OSD, Ethernet with built-in webpages complete with all accessories	2	Nos.				

S No.	Description	TOTAL QTY	Unit	U rate	Total Price	Taxes	Amount
44	Supply, Installation, testing & commissioning of 7 or more input 4 or more output Digital Scaling Matrix Switcher Supporting resolution of 1920 x1200 with 2x Twisted Pair input, 5x HDMI input, 2 x Twisted pair output (HD baseT), 2 x HDMI output with inbuilt AV control system with 6 or more RS 232 (with additional module acceptable), Ethernet, 1 or more IR/Serial, 2 or more Digital I-O/contact closure ports, 2 or more Relay ports (Flexibility to Expand to more relay ports in future), Memory: SDRAM 512MB & Flash 4GB or more	2	Nos.				
45	Supply, Installation, testing & Commissioning of 10inch capacitive Podium mount Touch panel with PoE Adapter compatible and of same make of Digital Scaling Matrix Switcher.	2	Nos.				
46	Supply, Installation, testing & commissioning of Mommentary Contact button for camera preset recall	2	Nos.				
47	Supply, Installation, testing & commissioning of 8 or more button based controller system with volume control knob/ additional dual button for volume up/down with inbuilt or supplied with external controller having 2 or more RS 232 port, 1 or more IR/Serial port, 2 or more relay control, 1 or more digital input Ethernet control port, Controller Memory: 512 MB or better	6	Nos.				
48	Supply, Installation, testing and commissioning of iPad as secondary wireless Touch control Panel for all wireless connectivity / controlling, supplied with Control app for button based controller docking station to all complete with all accessories	2	Nos.				
49	Supply, Installation, testing & Commissioning of cable cubby with Tilt up lid, Black anodised or powder coated finish, pass through holes for HDMI & VGA, audio connectivity, Multiregion AC Power	2	Nos.				
50	Supply, Installation, testing and commissioning of Collaboration Wireless Presentation System with HDMI/ Display Port, VGA/DVI output, Wireless video frame rate of 1080p@30fps or better, showing four or more simultaneous feed via software app/ hardware dongle, Presentation sharing via ethernet, complete with all accessories	1	Nos.				
51	Supply, Installation, testing and commissioning of HDMI Twisted Pair Transmitter with RS232/IR transmitter complete with standard accessories for 70mtrs or more transmitting audio, video, control & power. Data Rate: 10.2 Gbps or more, Resolution: 1920x1200 or more	8	Nos.				
52	Supply, Installation, testing and commissioning of HDMI Twisted pair Receiver with RS232/IR reciever complete with standard accessories for 70mtrs or more receiving audio, video, control & power, Data Rate: 10.2 Gbps or more, Resolution: 1920x1200 or more compatible to the HDMI twisted pair transmitter	12	Nos.				
53	Supply, Installation, testing & Commissioning of Three input twisted pair transmitter with 1xVGA, 1x Audio, 1x HDMI, 1xHDMI/DVI ,6.75 Gbps or more data rate, resolution support of 1920x1200 or better, supporting distance upto minimum 70mtrs for audio, video, power. Compatible to Scaling switcher as well as Twisted pair HDMI receiver	7	Nos.				
54	Supply, Installation, testing & commissioning of Ceiling Mounted Full HD Auto tracking PTZ camera system which should be able to automatically track lecturer motion & capture video through motion detection/sensor technology. Having output of HDMI/DVI/ HD SDI (Supplied with HD SDI to HDMI convertor if offered HD recorder doesnot have HD SDI input) output, 20 X or more Zoom, 1/2.8" CMOS or more, Digital Zoom: 10x or more, Pan Angle: +/-170 deg or better, S/N ratio: 50 dB or more RS 232 /IP Control	1	Nos.				
55	Supply, Installation, testing & commissioning of Ceiling Mounted Full HD PTZ camera having output of HDMI/DVI/ HD SDI (Supplied with HD SDI to HDMI convertor if offered HD recorder doesnot have HD SDI input), 20 X or more Zoom, 1/2.8" CMOS or more, Digital Zoom: 10x or more, Pan Angle: +/-170 deg or better, S/N ratio: 50 dB or more RS 232 /IP Control	3	Nos.				
56	Supply, Installation, testing & commissioning of Joystick controller supporting upto 4 PTZ camera.	1	Nos.				
57	Supply, Installation, testing & commissioning of HD recorder, PIP/picture by picture processor for minimum two HD input & H.264 Streaming Encoder with Inbuilt scaler, having 1x HDMI/DVI Inputs for presentation, 2x HDMI/DVI/HD-SDI for camera, supporting dual feed separate recording & Streaming, Recording: inbuilt storage of 30GB or more, external storage device, Network storage. Audio input & mixing with video. Supporting RTP/RTSP/ RTMP streaming protocol. Capability of Record & stream at 1080p. Schedule streaming & recording through Microsoft exchange. Should be able to integrate with content mangement /LMS system	2	Nos.				
58	Supply and laying of 1.8 Mtrs. HDMI - HDMI Cable	40	Nos.				
59	Supply and laying of 2.5 Mtrs. HDMI - HDMI Cable	7	Nos.				
60	Supply and laying of 1.8 Mtrs. VGA - VGA with audio Cable	8	Nos.				
61	Supply and laying of Shielded twisted pair cable, 450 MHz bandwidth, 24 AWG	900	Mtrs.				
62	Supply and connectivity of Shielded RJ 45 Connectors for shielded twisted pair cable	50	Nos.				
63	Supply and laying of VGA cable with soldered VGA male connectors at both ends	100	Mtrs.				

S No.	Description	TOTAL QTY	Unit	U rate	Total Price	Taxes	Amount
64	Supply and laying of 19inch Equipment Rack required as per room equipments for housing all rack mountable equipments with internal wiring, front glass door; heat dessipation fans; movement wheels, power distribution units etc complete with standard accessories.	8	Nos.				
65	Supply and installation of other cables, connectors, convertors etc as required for complete installation & comissioning of the system	8	Lot				
<b>Total Amount SH - II</b>							

<b>Approved Make List</b>		
<b>S.no</b>	<b>Item</b>	<b>Approved Makes</b>
1	Audio Speaker	Bose/ Tannoy/Turbosound/ Bosch EV/ Renkus Heinz
2	Amplifiers	BOSE/LabGruppen/Bosch EV / QSC
3	Microphone	Beyerdynamics /Shure / Sennheiser / AKG
4	Mixers	Behringer/ Soundcraft / Mackie /Yamaha
5	DSP processor	Bose/Biamp/ Extron/ Clearone/Symetrix
6	Conference Systems	Beyerdynamic/DIS/Bosch/Brahler/ Televic
7	Projector 7000-8000 ANSI Lumens	Christie/NEC/ Barco/Digital Projection
8	Projector 4000 ANSI	Christie/ NEC / Sony / Panasonic
9	Screen	Liberty/Grandview or Equivalent
10	Wireless Presentation	Crestron/Extron/AMX / Barco
11	Switchers, Scalers , Transmitter , recievers, Cable Cubby	Extron/Crestron / AMX
12	AV Control Systems, Keypad	Crestron/Extron/AMX
13	Equipment Rack	Valrack / President / Comrack
14	Lecture Recorder & Streamer	Mediasite/ Extron/ Mediapointe / Crestron/ Vbrick
15	Visualizer	Lumens/Wolfvision/Qomo / Elmo
16	PTZ Camera, Joystick Controller, Autotracking camera	Lumens/Sony/Panasonic / Bosch / iSmart/ Vaddio
17	HDMI /VGA Cable / Shielded Twisted Pair	Kramer/Extron/Crestron/Belden
18	Audio Cable & Connectors	Belden/Kramer/Klotz/Sommer / AMP / Extron/ Neutrik/Switchcraft / Amphenol