

NOTICE INVITING TENDER FOR
SUPPLY, INSTALLATION, TESTING
AND COMMISSIONING (SITC) OF
AUDIO VISUAL SYSTEMS AT FIRST
FLOOR ABOVE PRINCIPAL OFFICE
AT SRI GURU GOBIND SINGH
COLLEGE OF COMMERCE,
PITAMPURA, NEW DELHI

(TWO BID SYSTEM)

Tender shall be submitted in 3 separate envelopes

Envelope One: Technical Bid

Envelope Two: Financial Bid

Envelope Three: Earnest Money Deposit

Start of Sale of Tender documents: 29 May 2019

Last Date of Sale of Tender documents: 07 June 2019

Date of Submission of Tender Document: 10 June 2019 by
3 pm

Prepared by:
Ranjit Singh and Associates
1206 Surya Kiran Building, 19 K.G. Marg,
New Delhi 110001

**Sri Guru Gobind Singh College of Commerce
(University of Delhi) Pitampura, New Delhi**

Sealed Item rate tenders in two bid system (Technical Bid and Financial Bid) are invited by the Principal, Sri Guru Gobind Singh College of Commerce for Supply, Installation, Testing And Commissioning Of Audio Visual System At First Floor Above Principal Office at Sri Guru Gobind Singh College of Commerce, New Delhi from reputed contractors who have executed similar works, having completed three similar works costing not less than 17.87 Lakhs or two similar works costing not less than 26.81 Lakhs or one similar work costing not less than 35.75 Lakhs in the last three years.

Tenderers shall furnish proof of satisfactory completion of such work issued by the client along with their full company profile including list of T&P, technical staff, PAN No., GSTN No., solvency certificate and 3-year ITR of company. **All these documents will be submitted in the technical bid for the tender.** Technical bid shall be opened first and after evaluation and finalization of technical bid, the list of eligible contractors shall be prepared and financial bid of the short-listed contractors shall be opened. The Principal, Sri Guru Gobind Singh College of Commerce or his authorised representatives may visit the work sites of the contractors to assess the quality of their works before opening of the financial bids

Tender documents can be obtained from the office of Principal Sri Guru Gobind Singh College of Commerce, Pitampura New Delhi 110034 from 29/05/2019 to 07/06/2019 during working hours on payment of Rs. 1000/- by DD in favor of Principal Sri Guru Gobind Singh College of Commerce

Estimated Cost of the work	Rs. 44,68,750/- (Including GST)
Earnest Money Deposit	Rs. 89,375 (Rupees Eighty-Nine Thousand Three Hundred Seventy-Five only) in a separate envelope
Start of Sale of Tenders	29 May 2019
Last date of Sale of Tenders	07 June 2019
Date of Submission of Tender	10 June 2019 by 3:00 pm
Date of Opening of Technical Bid	10 June 2019 at 3:30 pm

Note: Tender Document can also be downloaded from the college website www.sggsc.ac.in and Delhi University Website www.du.ac.in Downloaded tender shall accompany a DD of Rs. 1000/- drawn in favor of Principal Sri Guru Gobind Singh College of Commerce, as cost of tender (Non-refundable). **Downloaded tender documents shall be spiral bound before submission. Loose, Stapled or incomplete bid documents can be rejected.**

Issued:

Dated: _____

Principal,
Sri Guru Gobind Singh College of Commerce
Pitampura, New Delhi

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APPENDIX

Defects Liability period	24 Months
Date of Commencement	The Next day after the date on which The Architect /Engineer-in-charge issues written orders to commence the works or the date of handing over the site whichever is later
Date of Completion	35 Days from the date of commencement
Penalty for delay	5,000/-per day up-to maximum 10% of the cost of the works.
Value of work for Interim Certificate	Rs. 10,00,000/- (Rupees Ten Lakhs)
Earnest Money Deposit	Rs. 89,375 (Rupees Eighty-Nine Thousand Three Hundred Seventy-Five only) in a separate envelope
Retention Percentage	5% (As per the terms and conditions)
Performance Guarantee	Before issue of letter to start the work, Contractor shall furnish a performance guarantee in the form of a Bank Guarantee to the tune of Five percent (5%) of the cost of the accepted tender amount, which will be kept valid up to 24 months after completion of the works.

Contractor

Employer

**Sri Guru Gobind Singh College of Commerce,
(University of Delhi) Pitampura, New Delhi**

Dated 27 May 2019

NOTICE INVITING TENDER

- 1) Sealed Item rate tenders in two bid system (Technical Bid and Financial Bid) are invited by the Principal, Sri Guru Gobind Singh College of Commerce for Supply, Installation, Testing And Commissioning of Audio Visual System At First Floor Above Principal Office at Sri Guru Gobind Singh College of Commerce, New Delhi.
- 2) The Architects for this job are M/s Ranjit Singh & Associates, 1206 Surya Kiran Bldg, 19 Kasturba Gandhi Marg, New Delhi –110001. Ph. 011-23312688 , 011-43560879 Email: rsa1206@msn.com.
- 3) The Tender shall be submitted in the prescribed form only
- 4) The works are required to be completed within a period of 35 days from the date of commencement.
- 5) The date of commencement shall be from the next day after the date on which the Architect/Engineer-in-charge issues written orders to commence the work or from the date of handing over of the site whichever is later.
- 6) The work shall be carried out in accordance with the phasing plan approved by the college authorities to avoid disturbance to the normal working of the College. The site is expected to be handed over immediately. **The contractor will prepare and submit a Phasing Plan with Bar Chart of all construction activities with targeted dates of completion for all the construction activities and get it approved from the college authorities**
- 7) Tender documents consisting of terms and conditions and Tender schedule can be obtained from the office of the Principal, Sri Guru Gobind Singh College of Commerce, New Delhi on any working day from 29/05/2019 to 07/06/2019 on the payment of Rs.1,000/- by Demand Draft in favor of Principal Sri Guru Gobind Singh College of Commerce. This amount is non-refundable.
- 8) Completed Tender should accompany PAN number, GSTN Number, email address, phone number and registered address of the Contractor
- 9) Plans, specifications etc. pertaining to the works can be inspected in the office of M/s Ranjit Singh & Associates, 1206 Surya Kiran Bldg, 19 Kasturba Gandhi Marg, New Delhi 110001, during office hours on any working day OR in the office of the Principal, Sri Guru Gobind Singh College of Commerce, New Delhi with prior appointment.
- 10) CONTRACTORS are advised to inspect and examine the site and the surroundings and satisfy themselves before submitting their Tender as to the nature of the work place (so far as practicable), the form and the nature of the site, the means of access to the site, the

accommodation they may require and in general shall themselves obtain necessary information as to the risks, contingencies and other circumstances which may influence or affect their Tender. **CONTRACTORS shall be deemed to have full knowledge of the site, whether they inspect it or not and no extra charge consequent to any misunderstanding or otherwise shall be allowed.**

- 11) Submissions of the Tender by the CONTRACTOR implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and local conditions and other factors bearing on the execution of the works.
- 12) A CONTRACTOR should quote in figures as well as in words rate(s) quoted. The amount for each item should be worked out and the requisite totals given. Special care shall be taken to write rates in figures as well as in words and the amount in figures only in such a way that interpolation is not possible. The total amount shall be written both in figures and in words. In case of figures the words "Rs." should be written before the figure of rupees and the words "paise" should be written at the end. Unless the rate is in whole rupees and followed by the word "only" it should invariably be upto two places of decimals.
- 13) All rates shall be quoted on the Tender form only.
- 14) Tender shall be received by the office of the Principal, Sri Guru Gobind Singh College of Commerce, New Delhi up-to 1500 hours on 10 June 2019 and the technical bid shall be opened at 1530 hours on 10 June 2019 in the presence of the CONTRACTORS, who may be present or the earliest convenient time and day thereafter.
- 15) The Tender shall be accompanied by earnest money deposit of Rs. 89,375 (Rupees Eighty-Nine Thousand Three Hundred Seventy-Five only), in the form of a demand draft in favor of the Principal, Sri Guru Gobind Singh College of Commerce, New Delhi.
- 16) On acceptance of the Tender, earnest money will be treated as a part of the security. In addition, contractor shall furnish performance guarantee in the form of an F.D.R or bank guarantee of 5% of the accepted Tender cost in favor of Principal, Sri Guru Gobind Singh College of Commerce, New Delhi before issue of letter to start the work
- 17) The CONTRACTOR, whose Tender is accepted, shall permit of the Principal, Sri Guru Gobind Singh College of Commerce, New Delhi at the time of making any payments to him for works done under the contract to deduct towards security deposit such sum as will along with the amount of earnest money already deposited amount to the following % of the cost of the work: -
 - 5% of the bill amount.
 - 50% of the security money will be released along with the final bill and the balance after expiry of the successful performance of the Defects Liability Period of two year without any interest.
- 18) Sri Guru Gobind Singh College of Commerce, New Delhi will return the earnest money where applicable, to every unsuccessful CONTRACTOR on return of all the Tender

documents without any interest.

- 19) A CONTRACTOR shall submit the Tender which satisfies each and every condition laid down in this notice, failing which the Tender will be liable to be rejected.
- 20) Sri Guru Gobind Singh College of Commerce, New Delhi does not bind itself to accept the lowest or any tender or to give any reasons for their decision.
- 21) Sri Guru Gobind Singh College of Commerce, New Delhi reserves the right of accepting the whole or any part of the Tender and CONTRACTOR shall be bound to perform the same at his quoted rates.
- 22) All taxes other than GST applicable in respect of this contract shall be payable by the Contractor and Sri Guru Gobind Singh College of Commerce will not entertain any claim whatsoever in respect of the same. However, in respect of GST, same shall be paid by the contractor to the concerned department on demand and it will be reimbursed to him by Sri Guru Gobind Singh College of Commerce after satisfying that it has been actually and genuinely paid by the contractor
- 23) T.D.S. for VAT/WCT/GST/INCOME TAX etc. as applicable to union territory of Delhi shall be deducted from the payments to be made to the Contractor and tax deduction certificate shall be issued by Sri Guru Gobind Singh College of Commerce, New Delhi as per govt. guidelines
- 24) This notice of Tender shall form part of the contract documents.

Contractor:

Duly authorized to sign the
On Behalf of M/s

.....
.....
.....

Owner:

**For and on behalf of
Sri Guru Gobind Singh College of
Commerce**

Signature.....

Date.....

Email.....

Phone.....

Postal Address.....

.....
.....

Authorized Signatory

To,

The Principal
Sri Guru Gobind Singh College of Commerce,
Pitampura, New Delhi.

Dear Sir,

I/We have read and examined the following documents relating to Supply, Installation, Testing and Commissioning of Audio-Visual System at First Floor Above Principal Office at Sri Guru Gobind Singh College of Commerce, New Delhi

- 1) Notice Inviting Tender Specifications
- 2) Drawings
- 3) General Conditions of Contract
- 4) Special Conditions
- 5) Tender Schedule

I/We hereby Tender for execution of the works referred to in the aforesaid, documents upon the terms and conditions contained or referred to therein and in accordance in all respects with the specifications, designs, drawings and other relevant details at the rates quoted by us in the Tender schedule. We have visited and examined the site of works and are fully aware of the site conditions, having a bearing on the contract.

In consideration of I/We being invited to the Tender, I/We agree to keep the Tender open for acceptance for 90 Days from the due date of submission thereof and not make any modifications in the terms and conditions which are not acceptable to Principal, Sri Guru Gobind Singh College of Commerce, New Delhi.

A sum of Rs. 89,375/- (Bank Draft No..... Dated.....) is hereby forwarded in Bank Draft in the favor of Principal, Sri Guru Gobind Singh College of Commerce, New Delhi as earnest money. If I/we fail to keep the Tender open as aforesaid or make any modifications in the terms and conditions of the Tender which are not acceptable to Principal, Sri Guru Gobind Singh College of Commerce, New Delhi. I/We agree that Principal, Sri Guru Gobind Singh College of Commerce, New Delhi Shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Should this Tender be accepted, I/we hereby agree to abide by and fulfill all the terms, conditions and provisions of the aforesaid documents.

If after the Tender is accepted, I/we fail to commence the execution of the works as provided in the conditions, I/we agree that Principal, Sri Guru Gobind Singh College of Commerce, New Delhi shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely.

I/We agree that should Principal, Sri Guru Gobind Singh College of Commerce, New Delhi. decide to forfeit earnest money as aforesaid, unless a sum equal to the earnest money mentioned above is paid by us forth-with, the principal Sri Guru Gobind Singh College of Commerce, New Delhi may at its option recover it out of the deposit and in the event of deficiency, out of any other money due to me/us or otherwise.

Duly authorized to sign the Tender
On behalf of M/s

.....

Signature.....

Dated.....

Postal Address.....

BIDDERS' DETAILS

S.NO.	DESCRIPTION	DETAIL
1	Name of Company	
2	Address of Company	
3	PAN no.	
4	GSTN no.	
5	Telephone Number	
6	Email Address	
7	Name of Company Owner / Director / Partner	
8	Address of Company Owner / Director / Partner	
9	Telephone Number of Company Owner / Director/ Partner	

I/We hereby declare that the information furnished above is true and correct. In case the above information is found incorrect at any stage, the Principal SGGSCC Pitampura may take appropriate action as warranted

Name:

Signatures:

Stamp/ Seal:

Place:

Date:

ELIGIBILITY CRITERIA

- 1) Bidder should have executed similar works, having completed three similar works costing not less than 17.87 lakhs or two similar works costing not less than 26.81 lakhs or one similar work costing not less than 35.75 lakhs in the last three years.
- 2) The bidder should have had average annual financial turn over (gross) of Rs. 22,34,375/- on similar works during the immediate last three consecutive financial years. This should be duly audited by a Chartered Accountant. Year in which no turnover is shown would also be considered for working out the average.
- 3) The bidder should not have incurred any loss in more than two years during the immediate last five consecutive financial years, duly certified by the Chartered Accountant
- 4) The bidder should have a solvency of Rs. 18 lacs certified by his Bankers
- 5) The Proposal should be accompanied by Earnest Money Deposit (EMD) of Rs. 89,375/- drawn from any scheduled bank in favor of Principal, Sri Guru Gobind Singh College of Commerce, Pitampura, New Delhi in a separate sealed envelope
- 6) Tenderer should be the manufacturer/authorized dealer. Letter of authorization from original equipment manufacturer (OEM) specific to the tender should be enclosed
- 7) An undertaking from the OEM is required stating that they would facilitate the tenderer on a regular basis with technology/ product updates and extend support for the warranty as well. The OEM should be nationally/ Internationally reputed company

DOCUMENTS TO BE PLACED IN TECHNICAL BID:

- 1) Company Registration Certificate
- 2) Complete company profile
- 3) Valid GSTN copy.
- 4) PAN Card Copy
- 5) EMD Demand Draft of Rs. 89,375/- (Separate Envelope)
- 6) Tender Fee Demand Draft of Rs.1000/- (Separate Envelope)
- 7) Turnover certificate (Annexure-1)
- 8) Solvency Certificate issued by the bank
- 9) 3-year ITR of the company
- 10) Experience proof documents (Valid Completion Certificates)

ANNEXURE-1

ON THE LETTER PAD OF CHARTERED ACCOUNTANT

This is to certify that the total turnover in the case of M/s having PAN ----- is as under:

Financial Year/Period	Amount in Rupees (Figures)	Amount in Rupees(words)
2015-16		
2016-17		
2017-18		
Total		

Average= Total/3

It is further certified that the above-mentioned amounts have been derived from the books of accounts presented before us for the above-mentioned periods.

Chartered Accountants

SPECIAL CONDITIONS

1. The work shall be carried out as per specifications in the Tender schedule/latest C.P.W.D. Specifications, along with the correction slips; issued up to date of acceptance of Tender in case of doubt the decision of the Architect shall be final and binding on the Contractor.
2. The Contractor shall carryout the work in stages as to cause minimum disturbance to the working of Sri Guru Gobind Singh College of Commerce, New Delhi and other organizations. He shall be responsible for any damage to the equipment or structures, injury to the personnel during the progress of the work and he shall be liable to pay compensation as may be decided by the Principal or his authorized representative in respect of such damages /injuries.
3. The serviceable materials out of the dismantled materials if any will be the property of the college and properly stacked by the Contractor as directed by the Engineer-in-charge. Decision of principal or his authorized representative on the service-ability of the dismantled materials shall be final and binding on the Contractor.
4. All labour Employed by the Contractor shall be covered by the workman's compensation act. Any death, injury or mishap to the workmen of the Contractor will entirely be the Contractor's responsibility and the College, shall not be liable to pay any damages for the same.
5. Contractor shall take adequate safety precautions to avoid any accident etc. at site. Shall erect proper barricades, sign boards, lights, etc. shall provide safety belts, safety shoes, head gears (helmet I.S.I standard) and shall be fully responsible for any criminal & civil liabilities. All safety arrangements are to be made by contractor at his own cost.
6. No labor or material rate escalation claims will be entertained from the contractor as this work has to be completed within 35 days from the date of commencement of work at site.
7. Rates quoted shall be applicable equally to all floors and shall include all lifts and leads. No extras on this account shall be payable.
8. The contractor shall provide training for operation and maintenance for the Audio Video system to the college staff free of cost, where required
9. Rates quoted by the contractor shall be inclusive of all items of work listed below and Any work, supplies or services which might have not been specifically mentioned in the specifications, schedule of items or drawings but are necessary f o r entire completion of the work shall be executed / provided/ rendered by the CONTRACTOR without any Extra cost and within the time schedule specified. Rates quoted shall be deemed to include such elements of labour and materials necessary to complete the items of work in

all respects

10. Contractor shall submit only computerized Bills supported with computerized measurement sheets in A4 size hard copy prints and soft copy in Microsoft Excel Format. Manual Handwritten bills or measurement sheets will not be accepted.
11. Labor Camp will be arranged by the contractor outside the college premises. Sri Guru Gobind Singh College of Commerce does not have space for labour camps inside its premises.
12. Principal SGGSCC Pitampura reserves the right to decrease the items of work, change the specifications of works or remove the entire section of work as may be deemed necessary to finish the works within the available budget.
13. **Warranty/Guarantee and after sales service:** The Audio Video system should carry a comprehensive onsite warranty of 2 (two) years from the date of commissioning. The vendor/ Contractor should have service center in Delhi to ensure quick service support. Minimum 95% annualized uptime is to be maintained throughout the warranty period.

The lead-time for carrying out repairs of the equipment's and making it operational, should not exceed 4 hours (i.e 2.0 hours of travel and 2.0 hours of repair time), failing which penalty of Rs.200/- on each item per day (where resolutions of cause exceeded 4.0 hours) will be deducted from Retention Money / any other payment due to Vendor or by way of invocation of Performance Bank Guarantee given under the Tender. All repair and maintenance service described herein shall be performed by qualified maintenance engineers familiar with equipment's.

14. Training: The contractor shall provide operations training to the college staff and prompt trouble shooting in case of problems

GENERAL CONDITIONS OF CONTRACT

Definitions: the contract document consists of the agreement, the special and general conditions of the contract, specifications and bills of quantities including all modifications and the contract drawings prepared by the Architect from time to time

1. The site: shall mean the site of contract work at Sri Guru Gobind Singh College of Commerce, New Delhi.
2. Sub-Contractor: includes those who have a direct contract with the Contractor.
3. Notice: written notice shall be deemed to have been served if delivered in person to a member of the Contractors firm.
4. Owner: Principal, Sri Guru Gobind Singh College of Commerce, New Delhi.
5. Work: the term “work” includes both labour and material of the Contractor/Sub-Contractor.
6. Time limits: time limits or 35 days stated in the contract are essence of the contract.
7. Law: law of the place of work shall govern the construction under this contract.
8. Virtual completion: date of virtual completion is the date when the construction is sufficiently completed in accordance with the contract documents, including modifications, if any.
9. Contract documents: shall consist of the following
 - a) Articles of agreement
 - b) General and special conditions of contract
 - c) Technical specifications
 - d) Bills of quantities

TYPE OF CONTRACT

It is an item rate contract. The Contractor shall be paid for the actual quantity and quality of work done, as measured at site on the rates quoted by him, on the basis of a payment certificate issued by the Architect/ Engineer- In charge

SCHEDULE OF QUANTITIES

Schedules of quantities given in the contract bill are provisional and are meant to indicate the intent of the work and to provide a uniform basis for the contract. The Owner reserves the right to increase or decrease any of the quantities or to totally omit any of them. Contractor shall be bound to carry out the same without claiming any extras.

CONTRACT DRAWINGS

1. In general, drawings shall indicate dimension, position & type of construction.
2. Specifications shall indicate the qualities, methods, and bill of quantities shall indicate the quantum and rates. Any work indicated in drawings and not mentioned in the specifications or vice versa shall be furnished as fully set forth in both.
3. Contractor shall not deviate from the drawings and Architects interpretation of the drawings shall be final and without appeal.
4. Errors/inconsistencies discovered in the drawings shall be instantly brought to the notice of the Architect for interpretation and correction, if any.
5. All drawings are the property of the Architect and shall not be used on any other project.
6. Bar bending schedule, if requested by the Architect/Engineer in-charge shall be furnished to him prior to fabrication.

ARCHITECTS INSTRUCTIONS

If within seven days of receipt of written instructions from the Architect, requiring compliance with an instruction the Contractor does not comply hence-with, then the Owner may get the work executed through another agency at the risk and cost of the Contractor.

SCOPE OF WORK OF CONTRACTOR

The scope of work to be carried out by the CONTRACTOR shall also include the following:

- a) Setting out of the works in respect of position, level dimensions, alignments, etc. including establishment of bench marks, survey reference points, etc.
- b) Clearance of the site.
- c) Site leveling /terracing within the limits as shown in the drawings or as directed by the Engineer In charge.
- d) Disposal of debris, excavated materials, etc. as per the instructions of the Engineer In-Charge
- e) All scaffolding, shorting, centering, shuttering works, etc.
- f) Running and maintenance of all construction plants and equipment, tools and tackles, etc.
- g) All temporary /enabling works such as approach road to the site, water supply, drainage and sewerage, power supply including diesel generator set, temporary offices, stores, construction yard, canteens, toilet blocks, labour camp, fencing, etc.
- h) Protection and maintenance of trees, shrubs, green and other surfaces as instructed by the Engineer In charge.

- i) Any other work required in connection with the execution of the contract work.

The cost of all the above-mentioned works shall be deemed to be included in the rates for various items of work although such inclusion may not be specifically spelt out.

Whether specified elsewhere in the Agreement or not, the CONTRACTOR shall provide all materials (including cables , wires, connectors, hooks, pipes, conduits, switch and switchgear etc. unless specifically spelt out in the agreement otherwise), labors of every description, energy and water and all tools, tackles, plant and transport necessary for proper execution of the work to the entire satisfaction of the OWNER.

SAMPLES AND SHOP DRAWINGS

The Contractor shall submit samples of materials and shops drawings required by the Architect with promptness within a week.

PROGRESS CHART

In order to achieve the completion time as stated above, the CONTRACTOR shall submit to the OWNER within 2 (two) weeks from the effective date of Agreement a detailed Bar chart/PERT Network showing all the activities including mobilization, site clearance, procurement of materials etc. The list of activities for which the Bar chart/ PERT network has been worked out and their commencement, duration and completion shall be subject to the approval of the OWNER

ACCESS FOR ARCHITECT/ENGINEER TO THE WORKS

The Architect and his representative shall have access, at all reasonable times, to the work and workshops of the Contractor.

ARCHITECTS STATUS AND DECISIONS

The Architect shall be Owner's representative during the construction period. He shall periodically visit the site to familiarize himself generally with the progress and the quality of work and to determine, in general if the work is proceeding in accordance with the contract documents. The Architect shall not be required to make exhaustive or continuous on-site inspections to check the quality and quantity of the work, and shall not be responsible for the Contractors failure to carry out the construction work in accordance with the contract documents. During his site inspections the Architect shall inform the Owner about progress of work, defects and deficiencies if any.

The Architect may in his absolute discretion from time to time, issue further drawings, details, written instructions, written decisions and written explanations in regard to: -

1. Variation or modification of the design

2. Quality or quantity of work, addition/alteration/omissions and substitutions of any work
3. Any discrepancy and divergence between drawings and specifications.
4. Removal and re-erection of any works executed by the Contractor
5. Dismissal of any persons employed on the site, who in the opinion of the Architect is not fit for the job.
6. Opening up for inspection any work-covered up
7. Amending and making good any defects under defects liability period
8. Removal from site, any materials brought by the Contractor, which in the opinion of the Architect is not up to the desired standard.
9. Delay and extension of time
10. Postponement of any work

ENGINEER INCHARGE

Engineer In-Charge shall mean the person approved by the Architect and appointed and paid by the Owner and acting under the directions of the Architect.

CONTRACTORS FIELD ORGANIZATION AND EQUIPMENT

1. The Contractor shall employ qualified and competent licensed Electricians on the site.
2. Contractor shall provide and install all necessary hoists, ladders, scaffoldings, tools, tackles, plants and machinery necessary for execution of the works
3. Contractor shall provide and maintain simple water tight office accommodation at site
4. Contractor shall make his own security arrangements at site and keep a 24hours Watchman
5. Contractor shall provide sanitary convenience for site staff and labour to keep the site clean
6. A telephone line at site to be maintained and paid by the Contractor
7. Guardrails shall be provided by the Contractor for safety of labour and general public at the site of works.

TAXES

All taxes other than GST, applicable in respect of this contract shall be payable by the Contractor and Sri Guru Gobind Singh College of Commerce will not entertain any claim whatsoever in respect of the same. However, in respect of GST, same shall be paid by the contractor to the concerned department on demand and it will be reimbursed to contractor by Sri Guru Gobind Singh College of Commerce after satisfying that it has been actually and genuinely paid by the contractor

STATUTORY OBLIGATIONS

The Contractor shall comply with and give all notices required by any Govt. authority and instrument, rule or order made under an act of parliament or state assembly or any regulation or bye-law of the local body, relating to the work and indemnify the Owner against any such liability arising out of noncompliance of the law.

By way of illustration of various Acts/statutory compliances as stated above, the following Acts as amended from time to time shall be complied with by the CONTRACTOR:

- a) Employee's Provident Fund Act 1952
- b) Contract Labour Act (Regulations and Abolition 1970)
- c) Minimum Wages Act 1948
- d) Payment of Wages Act 1936
- e) Workmen Compensation Act 1923
- f) Factories Act 1948
- g) Apprenticeship Act 1961

SUB CONTRACTOR

Before awarding any sub contract, the Contractor shall notify the Architect in writing the names of the Sub-Contractors proposed. Contractor shall not employ the Sub-Contractor to whom Architect or Owner may have a reasonable objection.

MEASUREMENT OF WORK

Unless otherwise specified, measurement of work shall be carried from the works actually executed. The measurements for the purpose of preparing Bills will be taken jointly by the CONTRACTOR's representative and the Engineer In charge. In measurement of work as stated above, the CONTRACTOR shall certify that the work has been carried out strictly as per the drawings, specifications and item of work in terms of the agreement. Such certificate shall require Engineer In-Charge's endorsement for the purpose of payment.

In the event of any dispute with regard to the measurement of the work executed, the decision of the OWNER shall be final and binding on the CONTRACTOR

In the case of site measurements, should the CONTRACTOR not attend or neglect or fail to send his representative for taking joint measurements, the measurements taken by the Engineer In Charge shall be deemed to be the correct measurement of work and shall be binding on the CONTRACTOR

REJECTION

If the Contract work or any portion thereof, at any time, is found to be defective or fails to fulfill the requirements of the agreement, the Engineer In Charge shall give the CONTRACTOR notice in writing setting-forth particulars of such defects or failure and the CONTRACTOR shall forthwith make good the defects or replace or alter the same to make it comply with the requirements of the agreement.

Any materials, equipment, etc. brought to the site and found to be not in accordance with the agreement, shall be rejected by the Engineer In-Charge and the CONTRACTOR shall remove the materials from the site within the period specified by the Engineer In-Charge.

The CONTRACTOR shall not be entitled to any extension of time or extra cost for rejection as per above

CERTIFICATES OF PAYMENTS

Architect shall issue an interim certificate of payment stating the amount due to the Contractor from the Owner and the Contractor shall be entitled to payment thereof within a period of two week after issue of the certificate. From the total amount, certified deduction shall be made towards payments already made, security deposit, TDS etc.as applicable to Delhi or any other tax applicable at the time of making payment.

All running payments shall be regarded as payment by way of advance against final payment only and not as payment for the work completed till the date of final payment. The running payment made shall not preclude the liability of the CONTRACTOR to finally complete the work strictly in accordance with the specifications and drawings, if required by re-constructing faulty work

CLAIM FOR EXTRA

In the case of extra item(s) (items that are completely new, and are in addition to the items contained in the contract), the contractor will submit rates, supported by rate analysis, for the work and the engineer-in-charge shall within one month of the receipt of the rates supported by rate analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.

DEDUCTION FOR UNCORRECTED WORK

If the Architect deems it in-expedient to correct work damaged or not done in accordance with the contract, an equitable deduction from the contract price shall be made thereof.

FLUCTUATIONS

The Contractor shall not claim any extras for fluctuation of price and the contract price shall

not be subjected to any rise or fall in prices.

POSSESSION BEFORE VIRTUAL COMPLETION

If the Owner, with the consent of the Contractor takes possession of part of the building for handing over to the finishing Contractor, such part of the building shall not be deemed to be virtually completed. Virtual completion of such part would occur only on completion of the last part of the structure.

TIME EXTENSION

Upon it becoming reasonably apparent that the progress of the work is delayed, the Contractor shall forthwith give written notice of the cause of delay to the Architect, to enable the Architect and Owner to take a proper decision in the matter.

INSPECTION AND TEST

- i. The CONTRACTOR shall ensure inspection and test of all materials and work at his cost through his ENGINEER IN CHARGE and other technical staff either at site or through any approved laboratory.
- ii. The CONTRACTOR shall ensure proper supervision and inspection during the progress of work at site.
- iii. All materials and work, whether at the site or in the CONTRACTOR's /Sub-Contractor's premises shall be subject to inspection and test by the ENGINEER IN CHARGE. The CONTRACTOR/ his Sub-Contractor shall provide all facilities free of cost to the ENGINEER IN CHARGE including all labor, materials, tools, tackles, instruments, appliances, etc. to enable the ENGINEER IN CHARGE to carry out inspection and/or test.
- iv. All test certificates shall be subject to certification by the ENGINEER IN CHARGE.
- v. The CONTRACTOR shall submit to the ENGINEER IN CHARGE three copies of all inspection/ test certificates.
- vi. The CONTRACTOR shall not be entitled to any claim for extra time or cost due to any delay in carrying out inspection and testing or re-inspection and re-testing if so decided by the ENGINEER IN CHARGE.
- vii. The CONTRACTOR shall take adequate steps to rectify the defects or to replace such materials and work which have failed during inspection /testing

RESPONISBILITY OF COMPLETION

Any work, supplies or services which might have not been specifically mentioned in the

specifications, schedule of items or drawings but are necessary for entire completion of the contract work shall be executed / provided/ rendered by the CONTRACTOR without any Extra cost and within the time schedule specified. Rates quoted shall be deemed to include such elements of labor and materials necessary to complete the items of work in all respects.

DAMAGES FOR NON-COMPLETION

If the Contractor fails to complete the works by the date specified or within any extended time granted to him, the Contractor shall allow the Owner to deduct a sum calculated at the agreed liquidated damages, from the money due to him for the period the work remained incomplete, subject to a maximum amount of 10% of the Contract Value.

LIQUIDATED DAMAGES FOR DELAY

If the CONTRACTOR fails to complete the work/item (s) of work in all respects and hand over the same to the OWNER within the time stipulated the CONTRACTOR, without prejudice to any other right or remedy of the OWNER on account of such breach, be liable to pay the OWNER liquidated damages at the rate of 1% (one percent) of the total contract price for delay of every week or part thereof.

The total amount of liquidated damages shall be limited to 10% (Ten percent) of the total contract price.

The above provisions shall not apply in cases of delay for which the CONTRACTOR is entitled to extension of completion time

VIRTUAL COMPLETION CERTIFICATE AND DEFECTS LIABILITY PERIOD

When in opinion of the Architect the works are practically completed, he shall forthwith issue a certificate to that effect, that date will be taken as the date of virtual completion.

The Architect shall prepare a schedule of defects, not later than 14 days after the expiry of the defects liability period. The Contractor shall within a reasonable period of time after receipt of schedule of defects shall rectify the same, failing which the Architect will make suitable deductions from the contract sum.

MAINTENANCE GUARANTEE / DEFECTS LIABILITY PERIOD

Maintenance Guarantee period will be 24 months from the actual date of completion and handing over to the OWNER.

- a) The CONTRACTOR guarantees that within the maintenance guarantee period, the contract work shall not show any signs of defects, cracks, settlements, disfigurations, shrinkage, leakage, dampness or any other defects.

- b) The CONTRACTOR shall maintain and satisfactorily execute, at his own cost, all such works of repair, amendment, re-construction, rectification, replacement and any other work to make good the faulty work as stated in Article (a) during the maintenance guarantee period.
- c) The CONTRACTOR shall, if required by the ENGINEER IN CHARGE, search for the causes of any defects, imperfection or fault under the direction of the ENGINEER IN CHARGE. The cost of such search shall be borne by the CONTRACTOR.
- d) At intervals specified by the ENGINEER IN CHARGE the CONTRACTOR, along with the ENGINEER IN CHARGE, shall inspect the contract work to satisfy himself that no defects have cropped up in the contract work. Should there be any signs of defects, the CONTRACTOR shall take immediate steps to rectify the same, failing which; the ENGINEER IN CHARGE may get the defects rectified at the risk and cost of the CONTRACTOR.
- e) At the end of the maintenance guarantee period, the CONTRACTOR, along with the ENGINEER IN CHARGE, shall carry out final inspection of the contract work to prove that no defects had appeared in the contract work or that all defects which appeared in the contract work have been rectified to the entire satisfaction of the ENGINEER IN CHARGE. If during the final inspection it is found that the defects still remain in the contract work, the period of maintenance guarantee shall be extended at the discretion of the ENGINEER IN CHARGE and the CONTRACTOR shall be liable to make good the defects and be responsible for the maintenance of the work till the defects have been fully rectified.
- f) Upon successful completion of the maintenance guarantee period the OWNER shall issue final acceptance certificate to the CONTRACTOR

PAYMENT WITH HELD

The Architect may withhold or on account of subsequently discovered evidence nullify the whole or part of any certificate to such an extent as may be necessary in his reasonable opinion to protect the Owner from loss, for defective work, non- payment to Subcontractors, or other claims connected to this work.

INJURY TO PERSONS

The Contractor shall indemnify the Owner against any liability, loss, claim or proceedings whatsoever arising under any statutory or common law in respect of personal injury to or the death of any person, whomsoever arising out of or in the course of or caused by carrying out the work.

INSURANCE

Without prejudice to his ability to indemnify the Owner, the Contractor and his Subcontractors shall maintain such insurance as are necessary to cover the liability of the Contractor and the sub-Contractors.

INSURANCE AGAINST FIRE

The Contractor shall in the joint name of the Owner and the Contractor, insure the works against loss or damage due to fire, earthquakes and riots.

COORDINATION OF WORK

Contractor shall extend complete coordination to other agencies i.e. air-conditioning, firefighting and interiors working on the same site.

LABOUR

Contractor shall not employ child labour under 14 years of age and if female workers are employed, he should make provision for safeguarding the small children to keep them clear of the site. All labour shall wear safety helmets and shoes to protect them from injury.

SAFETY

In respect of all labour directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall at his own expense arrange for the safety provisions as per C.P.W.D. Safety Code framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the contractor fails to make arrangement and provide necessary facilities as aforesaid, he shall be liable to pay a penalty of Rs.200/- for each default and in addition, the Engineer-in- Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.

ANTIQUITIES

All fossils and other objects of interest or value, which may be found on the site or in excavating the same during progress of the work, shall become a property of the Owner. The Contractor shall carefully take out and preserve all such objects and hand them over to the Owner, through the Architect.

GUARANTEE

Besides guarantees required elsewhere, the Contractor shall guarantee the works in

general for one year after completion of defects liability period.

TREES AND SHRUBS

The Contractor shall protect trees and shrubs designated by the Owner/Architect/Engineer in Charge from damage during the course of work

PERFORMANCE GUARANTEE

In addition to the Security Deposit the Contractor shall furnish a performance guarantee in the form of a Bank Guarantee to the tune of Five percent (5%) of the cost of the tender amount, which will be kept valid up to 24 months after completion of the work.

WARRANTY

The Contractor shall give warranty that works to be done supplied shall be new and free from all defects and faults in material, workmanship, and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards for materials of the type ordered and shall perform in full conformity with the specifications and drawings. The Contractor shall be responsible for any defects that may develop under the conditions provided by the contractor and under proper use, arising from faulty materials, design or workmanship such as corrosion of the equipment, inadequate contact protection, deficiencies in circuit design and or otherwise and shall remedy such defects at his own cost when called upon to do so by the Institute who shall state in writing in what respect goods are faulty. This shall survive inspection or payment for, and acceptance of goods, after the goods have been taken over.

If it becomes necessary for the contractor to replace or renew any defective Portion / portions of the equipment under this clause, the provisions of the clause shall apply to the portion / portions of equipment's replaced or renewed or until the end of the warranty period of 24 months, whichever may be later. If any defect is not remedied within a reasonable time, the College may proceed to get the work done at the Contractor's risk and expenses, but without prejudice to any other rights which the College may have against the Contractor in respect of such defects. Replacement under warranty clause shall be made by the Contractor free of all charges at site including freight, insurance and other incidental charges

REPLACEMENT OF DEFECTIVE EQUIPMENT

If any equipment or any part thereof, is found defective or fails to meet the requirements of the contract before it is accepted College shall give the Contractor a notice setting forth details of such defects or failures and the Contractor shall forthwith arrange to set right the defective equipment or replace the same by the good one to make it comply with the requirements of the contract. This in any case shall be completed within a period not exceeding one month from the date of the initial report pointing out the defects. The replacement or rectification shall be made at site by the Contractor free of cost. Should the Contractor fail to do the needful within this stipulated time frame, the College reserves the right to reject the equipment in full or in part and get it replaced at the cost of

the Contractor. The cost of any such replacement made by the College shall be deducted from the amount payable to the Contractor against this purchase order.

If any equipment or part thereof is lost or rendered defective during transit, pending settlement of the insurance claim, fresh order shall be placed on the Contractor for such loss or defective equipment and the Contractor shall arrange to supply the same within three months of such order at the same prices and on the same general terms and conditions as mentioned in this purchase order.

ADD ON ORDER

SGGSCC Pitampura reserves the right to place Add-on-order for additional quantity up to 100% of the original quantity at the same rate and terms & conditions of the purchase order within six months from the date of issue of purchase order.

ARBITRATION

In case of dispute, the difference of opinion on any matter pertaining to the works, the decision of the Architect shall be final and binding on the contractors and the owners. If either party is not satisfied with the decision of the Architect, within 28 days a notice to this effect will be sent to the Architect in writing. The matter can then be referred to sole arbitrator or a panel of two arbitrators who should be fellows of Indian Institute of Architect, for a final award. Decision of Principal SGGSCC shall be final and binding in this regard.

LIQUIDATION

If the CONTRACTOR commences to be wound up, not being a member's voluntary winding up for the purpose of amalgamation or reconstruction, or carries on his business under a receiver for the benefits of his creditor the OWNER shall be at liberty to:

- i) Give such receiver the liquidator or other person the option of carrying out the performance under the Agreement, subject to the receiver, liquidator or other person providing a guarantee up to an amount to be agreed upon by the OWNER and such receiver liquidator or other person for the due and faithful performance of the CONTRACTOR's obligations under this Agreement, or
- ii) If the receiver, liquidator or other person fails within 30 (thirty) days to exercise the option to carry out performance of the Agreement then the OWNER may terminate the Agreement and give notice in writing to the CONTRACTOR or to the receiver, liquidator or to any person in whom the Agreement may have become vested.

TERMINATION OF CONTRACT

If the CONTRACTOR violates the Agreement or shall neglect to execute the work with due diligence or expedition or shall refuse or neglect to comply with any reasonable directions, instructions or orders given to him in writing by the Architect/Engineer In-Charge in connection with the work or shall contrivance or breach any provisions of the Agreement, the OWNER may give notice in writing to the CONTRACTOR to make good the failure, neglect or contravention complained of or cure that breach within a period of 30 (thirty) days of receiving such notice and in default of the compliance with the said notice, the OWNER without prejudice to his rights as below may rescind or terminate the Agreement stating therein the effective date of termination, holding the CONTRACTOR liable for the damages that the OWNER may sustain in this behalf.

Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the Owner shall have the option of terminating the contract without compensation to the CONTRACTOR.

BILL OF QUANTITIES

S.no.	Description	Unit	Qty.	Rate	Amount (Rs.)
	CONFERENCE ROOM				
	Quoted prices are to be inclusive of all Speaker cables, connectors, Microphone cables, HDMI cables and any other items required for functioning of the system.				
1	SITC System 2-Way wall mount Compact Speaker System with 6 inch Lf & 1 inch Hf compressor driver unit only with 120 watt rms power continuous and max SPL of minimum 121 db ; with paint finish (Approved Make: Martin Audio CDD 6 / EAW JF 8 / JBL AC Series / Celto Acoustique iFIXseries)	EACH	4		
2	SITC of class h or d power amplifier with 2 x 450 watt rms power at 4 ohms per channel for speakers (Approved Make: Crown XTI 1002 / VAL Audio GL1500 / Martin Audio MA2.0 / LAB gruppen E12.2)	EACH	1		
3	Control Unit:- Powers up to 100 discussion units, Cascade capability to handle up to 300 discussion units, Conference mode: Free talk, request to talk and full remote, 2 Mic/Line In + 1 Aux In + 2 Return In, Built-in feedback suppressor and digital audio processing (DSP), Gain sharing algorithm substantially reduces the risk of feedback while maintaining a natural sound. (Approved Make: Sennheiser ADN Series/ Beyerdynamic MCS Series/ Audio Technica ATUC - 50 Series	EACH	1		

S.no.	Description	Unit	Qty.	Rate	Amount (Rs.)
	CONFERENCE ROOM				
4	Delegate Unit:- Crystal-clear, 24-bit digital audio processing with 12-band feedback suppressor, Easy plug-and-play operation, discussion units, integration units, and interpretation units (max of six INTs) can be connected, in either daisy chain or ring topology, to each control unit with long gooseneck microphone (Approved Make: Sennheiser ADN Series/ Beyerdynamic MCS Series / Audio Technica ATUC - 50 Series	EACH	9		
5	Chairman Unit:- Crystal-clear, 24-bit digital audio processing with 12-band feedback suppressor, Easy plug-and-play operation, A total of 100 ATUC-50DU discussion units, ATUC-50IU integration units, and ATUC-50INT interpretation units (max of six INTs) can be connected, in either daisy chain or ring topology, to each ATUC-50CU control unit With long gooseneck Microphone (Approved Make: Sennheiser ADN Series/ Beyerdynamic MCS Series / Audio Technica ATUC - 50 Series	EACH	1		
6	Supply Installation testing & Commissioning of Gooseneck cardioid Microphone with minimum gooseneck length of 16 inch , polar pattern Cardioid, Frequency Range 70-16000 Hz, Sensitivity 18mV/Pa, Impedance >2000 ohms ; with on/off base along (Approved Make: AKG CGN 99C/L / Audio Technica pro49ql /Beyerdynamic Mts 67/3/ Shure mx418d/c)	EACH	1		
7	Supply installation testing & commissioning of Cordless Handheld Microphone with UHF frequency (8 Selectable Frequencies), as required (Approved Make: Shure blx series /AKG WMS 470 Series / Audio Technica AT 11 Series/ Beyerdynamic EW100 series)	EACH	1		

S.no.	Description	Unit	Qty.	Rate	Amount (Rs.)
	CONFERENCE ROOM				
8	SITC of DLP Laser Technology projector with minimum 5500 lumens brightness with WUXGA resolution o 1920 x 1200 with minimum contrast ratio of 5000: 1 (Approved Make : Panasonic / Vivitek (By DELTA) / NEC	EACH	1		
9	AV switcher with 2 outputs and 4 Inputs along all in outs with external cards of inputs along outputs as required for functioning (Approved make: Extron / Kramer / Milestone Pro)	EACH	1		
10	Wireless presentation system with 2 dongle along processor for wireless presentation in conference room Display Port, Single link DVI-I , VGA (via included convertor, highest resolutions only with reduced blanking) ,In "Dual screen" mode, connection can occur either through DVI and Display Port, or through VGA and Display Port. (Approved make: Barco / Wolfvision / Delta)	EACH	1		
11	Supply Installation testing & Commissioning of main SYSTEM RACK - M.S. Rack with Power indicator, power sockets and isolator fitted duly prewired to accommodate Control Room equipment's for in house equipment's with cooling fan at back gate e.g. Amplifiers, Controller, Equalizer etc as required (Approved make - Rackom / MTS / A - UNIKS)	EACH	1		
12	Supply Installation testing & Commissioning of PATCH CORDS (for SYSTEM INTERCONNECT) - High grade professional low-noise bable, 2-Core High conductivity PVC insulated in PVC jacket, shielded Copper Cable with di-electric insulator to prevent RF	Per Mtr.	50		

S.no.	Description	Unit	Qty.	Rate	Amount (Rs.)
	CONFERENCE ROOM				
	interference with necessary XLR male/female connectors EP Jacks / RCA Jacks etc as required (Make-Custom)				
13	Supply, laying & Fixing of Speaker Lines: 2-Core 1.5 sq mm , High definition Speaker Cable, PVC insulated in PVC jacket laid in existing conduits as required (Make - Belden / Krystal / Kramer / Bestnet)	Per Mtr.	100		
14	Cable Cubby /Patch Panel, surface access enclosure, openable with press down on the top the enclosure with one data input on HD 15 connector, one video input on RCA connector , two cat 6 RJ 45 connector for LAN (Approved make: kramer / elearn / extron / Bestnet)	EACH	2		
15	Supply laying & fixing of Cat 6 Shielded cables for the Video wall and panel (Approved Make: kramer / beldon / krystal / Bestnet)	Per Mtr.	150		
16	Supply & laying of HDMI cable with 20 meter length (Approved Make: kramer / beldon / krystal / Bestnet)	EACH	3		
17	SITC of 120" diagnol HD 3D Motorized Projector screen in 16:9 Ratio with remote control Screen Make (Starwayline / Red chief / Liberty / Elite)	EACH	1		
	TOTAL AMOUNT FOR CONFERENCE ROOM				
	GST				
	TOTAL AMOUNT WITH GST				

S.no.	Description	Unit	Qty.	Rate	Amount (Rs.)
	SEMINAR HALL				
	Quoted prices are to be inclusive of all Speaker cables, connectors, Microphone cables, HDMI cables, Patch Cords and any other items required for functioning of the system.				
1	Two-Way Wall Mount full range Speakers with 8" Lf and 1" Hf frequency response, Max SPL 122 dB long term power handling 200 W, 800 watt short term power handling with continuous SPL 1w 1m @ 98 db	Each	4		
	Preferred Make : JBL AC 18/95 / Celto acoustique IFIX Series / Martin Audio CDD8				
2	Single 12" or above Bass -reflex Subwoofer System 27 Hz - 160 Hz (± 3 dB) frequency response, Max SPL 132dB @ 1W / 1m, long term power handling 500 - 600 watt rms @ 8Ohms with sensitivity of 93 db ; with max SPL peak of minimum 128 db	Each	2		
	Preferred Make: JBL ASB 6112 / Celto acoustique IFIX 13s / Martin Audio CSX 112				
3	Class H Power amplifier with 1300 W @ 4 ohms per channel , THD<0.05%, damping factor > 450 @ 8ohms, Input CMRR(1khz) <60db, input sensitivity @ 8ohms 1V For Main Speakers & Subwoofers	Each	2		
	Preferred Make : Crown DC Series / Val Audio GL series / Martin Audio Ma series / Celto acoustique C series				
4	2 x 6 Loudspeaker Management System w/ Display, RTA mic phantom voltage 15v DC, Impedance 120 ohms, sample rate 48kHz, ,	Each	1		
	Approved make: DBX / Marani / Martin Audio / Celto Acoustique				

S.no.	Description	Unit	Qty.	Rate	Amount (Rs.)
	SEMINAR HALL				
5	Cordless Handheld Microphone with UHF frequency (Ten Selectable Frequencies), comprising of:	Each	2		
	Handheld Transmitter: Carrier Frequency 660 to 865 MHz, Audio Bandwidth 65Hz - 20 kHz, THD @ 1kHz 0.8% typ., RF output 10mW typ. (ERP), Soft touch finish, extremely rugged spring-steel wire-mesh cap, on-mute-off switch, interchangeable colour code label				
	Diversity Receiver: Carrier Frequency 660 to 865 MHz, Audio Bandwidth 35Hz - 20 kHz, THD @ 1kHz 0.8% typ., Swivelling Antenna, On/off switch, LED metering, Metal case, unbalanced TS output jack, Professional balanced XLR Audio output				
	Preferred Make: Audio-Technica (Japan) / Sennheiser / Beyerdynamic				
6	Wireless Lavalier Microphone with UHF frequency, comprising of: Lapel mic, bodypack transmitter and receiver (Ten selectable frequency)	Each	1		
	Bodypack Transmitter: Carrier Frequency 660 to 865 MHz, Audio Bandwidth 35Hz - 20 kHz, THD @ 1kHz 0.8% typ., RF output 10mW typ. (ERP), Detachable belt clip, interchangeable labels, Rugged mini XLR connector, Soft-touch Finish, On-Mute-Off switch				
	Diversity Receiver: Carrier Frequency 660 to 865 MHz, Audio Bandwidth 35Hz - 20 kHz, THD @ 1kHz 0.8% typ., Swivelling Antenna, On/off switch, LED metering, Metal case, unbalanced TS output jack, Professional balanced XLR Audio output				
	Lavalier Microphone: Polar pattern Cardioid, Frequency range 15Hz - 18kHz, THD 118dB, Equivalent Noise Level 34dB-A, 3-pin mini XLR				
	Preferred Make :Audio Technica (Japan)				

S.no.	Description	Unit	Qty.	Rate	Amount (Rs.)
	SEMINAR HALL				
7	16-Channel 3 Aux Send 4 sub group, 7 x 4 output Matrix, architecture Audio mixing console frequency response 20Hz-20kHz,+0/-1dB, THD XLR input to Direct output <0.006%@ 1kHz, Noise mic input <-128dBu, Mix <-82dBu, Crosstalk @ 1khz, input channel muting >97dB, mix routing isolation<-97dB, Aux send off <-84dB, Impedances Mic inputs 2k ohm, Line inputs > 10k ohms.	Each	1		
	Preferred Make : Allen & Heath / Mackie / Midas / Sound craft				
8	Dynamic Vocal Microphone, polar pattern Supercardioid, Frequency Range 70-20000 Hz, Sensitivity 2.5mV/Pa, Impedance <600 ohms	Each	2		
	Preferred Make : Audio technica (Japan) / Sennheiser / Beyerdynamic				
9	Dynamic Instrumental Microphone, polar pattern Cardioid, Frequency Range 60-20000 Hz, Sensitivity1.8mV/Pa, Impedance <600 ohms	Each	2		
	Preferred make Audio technica (Japan) / Sennheiser / Beyerdynamic				
10	Gooseneck cardioid Microphone, polar pattern Cardioid, Frequency Range 70-18000 Hz, Sensitivity18mV/Pa, Impedance >2000 ohms	Each	2		
11	SITC OF DLP Technology Laser projector with minimum 6000 ansi Lumens Brightness; with contrast ratio of 15000:1 ; with WUXGA resolution of 1920 x 1200	Each	1		
	Preferred Make : Panasonic / Vivitek (By Delta) / NEC				
12	SITC of 150" diagnol HD 3D Motorized Projector screen in 16:9 Ratio with remote control Screen Make (Starwayline / Red chief / Liberty / Elite)	Each	1		
13	SITC of 2 in 4 out HDMI switchers	Each	1		
	Preferred Make: Kramer / Milestone pro / Altona				

S.no.	Description	Unit	Qty.	Rate	Amount (Rs.)
	SEMINAR HALL				
14	Cable Cubby /Patch Panel, surface access enclosure, openable with press down on the top the enclosure with one data input on HD 15 connector, one video input on RCA connector , two cat 6 RJ 45 connector for LAN (Approved make: kramer / elearn / extron / Bestnet)	Each	3		
15	Supply Installation testing & Commissioning of main SYSTEM RACK - M.S. Rack with Power indicator, power sockets and isolator fitted duly prewired to accommodate Control Room equipment's for in house equipment's with cooling fan at back gate e.g. Amplifiers, Controller, Equalizer etc as required (Approved make - Rackom / MTS / A - UNIKS)	Each	1		
	TOTAL AMOUNT FOR SEMINAR HALL				
	GST				
	TOTAL AMOUNT WITH GST				

S.no.	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	MINI AUDITORIUM				
	Quoted prices are to be inclusive of all Speaker cables, connectors, Microphone cables, HDMI cables and any other items required for functioning of the system				
1	Two-Way Main FOH Speaker System with 10" Lf and 1" Hf ; with Max SPL 126 dB long term power handling 250W RMS , 1200 watt short term power handling with sensitivity of 95 DB Front Speaker Flyable left central & right of the stage	Each	4		
	Preferred Make: JBL Kp 610 / Celto Acoustique IFIX Series / Martin Audio CDD 10				
2	Two-Way STAGE Monitors System with 8" Lf and 1" Hf frequency response, Max SPL 122 dB long term power handling 200W, 800-watt short term power handling with continuous SPL 1w 1m @ 98 dB	Each	2		
	Preferred Make: JBL AC 18/95 / Celto acoustique IFIX Series / Martin Audio CDD 8				
3	Single 17" or above Bass -reflex Subwoofer System 27 Hz - 160 Hz (\pm 3 dB) frequency response, Max SPL 132dB @ 1W / 1m, long term power handling 600 - 800 watt rms @ 8Ohms with sensitivity of 96 dB ; with max SPL peak of minimum 132 dB	Each	2		
	Preferred Make: JBL Asb 6118 s / Celto acoustique IFIX 17s / Martin Audio wsx 118 s				
4	Class h Power amplifier with 1300 W @ 4 Ohms per channel , THD<0.05%, damping factor > 450 @ 8Ohms, Input CMRR(1khz) <60dB, input sensitivity @ 8Ohms 1V For Main Speakers & Subwoofers	Each	2		

S.no.	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	MINI AUDITORIUM				
	Preferred Make: Crown DC Series / Val Audio GL series / Martin Audio Ma series / Celto acoustique C series				
5	Class h Power amplifier with 450 W @ 4 Ohms per channel, THD<0.05%, damping factor > 350 @ 8Ohms, Input CMRR(1khz) <60dB, input sensitivity @ 8Ohms 1V ; For Stage Monitors	Each	1		
	Preferred Make: Crown DC series / Celto Acoustique C series / Martin Audio Ma series / Val Audio GL series				
6	2x6 Loudspeaker Management System w/ Display, RTA mic phantom voltage 15v DC, Impedance 120 Ohms, sample rate 48kHz	Each	1		
	Approved make: DBX / Marani / Martin Audio / Celto Acoustique				
7	Cordless Handheld Microphone with UHF frequency (Ten Selectable Frequencies), comprising of:	Each	2		
	Handheld Transmitter: Carrier Frequency 660 to 865 MHz, Audio Bandwidth 65Hz - 20 kHz, THD @ 1kHz 0.8% typ., RF output 10mW typ. (ERP), Soft touch finish, extremely rugged spring-steel wire-mesh cap, on-mute-off switch, interchangeable colour code label				
	Diversity Receiver: Carrier Frequency 660 to 865 MHz, Audio Bandwidth 35Hz - 20 kHz, THD @ 1kHz 0.8% typ., Swiveling Antenna, On/off switch, LED metering, Metal case, unbalanced TS output jack, Professional balanced XLR Audio output				
	Preferred Make: Audio Technica (Japan) / Sennheiser / Beyerdynamic				

S.no.	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	MINI AUDITORIUM				
8	Cordless Lavalier Microphone with UHF frequency, comprising of: Lapel mic, bodypack transmitter and receiver (Ten selectable frequency)	Each	1		
	Bodypack Transmitter: Carrier Frequency 660 to 865 MHz, Audio Bandwidth 35Hz - 20 kHz, THD @ 1kHz 0.8% typ., RF output 10mW typ. (ERP), Detachable belt clip, interchangeable labels, Rugged mini XLR connector, Soft-touch Finish, On-Mute-Off switch				
	Diversity Receiver: Carrier Frequency 660 to 865 MHz, Audio Bandwidth 35Hz - 20 kHz, THD @ 1kHz 0.8% typ., Swiveling Antenna, On/off switch, LED metering, Metal case, unbalanced TS output jack, Professional balanced XLR Audio output				
	Lavalier Microphone: Polar pattern Cardioid, Frequency range 15Hz - 18kHz, THD 118dB, Equivalent Noise Level 34dB-A, 3-pin mini XLR				
	Preferred Make: Audio Technica (Japan)				
9	22-Channel 3 Aux Send 4 sub group, 7 x 4 output Matrix, architecture Audio mixing console frequency response 20Hz- 20kHz,+0/-1dB, THD XLR input to Direct output <0.006%@ 1kHz, Noise mic input <-128dBu, Mix <-82dBu, Crosstalk @ 1khz, input channel muting >97dB, mix routing isolation<-97dB, Aux send off <-84dB, Impedances Mic inputs 2k ohm, Line inputs > 10k Ohms.	Each	1		
	Preferred Make : Allen & Heath / Mackie / Midas / Sound craft				

S.no.	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	MINI AUDITORIUM				
10	Dynamic Vocal Microphone, polar pattern Supercardioid, Frequency Range 70-20000 Hz, Sensitivity 2.5mV/Pa, Impedance <600 Ohms	Each	4		
	Preferred Make : Audio technica (Japan) / Sennheiser / Beyerdynamic				
11	Dynamic Instrumental Microphone, polar pattern Cardioid, Frequency Range 60-20000 Hz, Sensitivity 1.8m V/Pa, Impedance <600 Ohms	Each	4		
	Preferred make Audio technica (Japan) / Sennheiser / Beyerdynamic				
12	Gooseneck cardioid Microphone, polar pattern Cardioid, Frequency Range 70-18000 Hz, Sensitivity 18mV/Pa, Impedance >2000 Ohms	Each	2		
13	SITC OF DLP Technology Laser projector with minimum 6000 ansi Lumens Brightness; with contrast ratio of 15000:1 ; with WUXGA resolution of 1920 x 1200 ; etc extra as required	Each	1		
	Preferred Make : Panasonic / Vivitek (By Delta) / NEC				
14	SITC of 150" diagnol HD 3D Motorized Projector screen in 16:9 Ratio with remote control Screen Make (Starwayline / Red chief / Liberty / Elite)	Each	1		
15	SITC of 2 in 4 out HDMi switcher	Each	1		
	Make Kramer / Milestone pro / Altona				
16	Supply Installation testing & Commissioning of main SYSTEM RACK - M.S. Rack with Power indicator, power sockets and isolator fitted duly prewired to accommodate Control Room equipment's for in house equipment's with cooling fan at back gate e.g. Amplifiers, Controller, Equalizer etc as required (Approved make - Rackom / MTS / A - UNIKS)	Each	1		

S.no.	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	MINI AUDITORIUM				
	TOTAL FOR MINI AUDITORIUM				
	GST				
	TOTAL WITH GST				

SUMMARY

S.NO.	DESCRIPTION	AMOUNT	GST	TOTAL AMOUNT
1)	SEMINAR HALL			
2)	MINI AUDITORIUM			
3)	CONFERENCE ROOM			
	TOTAL AMOUNT			