



**Delhi  
Tenders**

**eTendering System Government of NCT of Delhi**

**Tender Details**

Date : 25-Nov-2024 02:04 PM



**Basic Details**

<b>Organisation Chain</b>	Delhi Technological University		
<b>Tender Reference Number</b>	DTU/EC/0095/Electrical		
<b>Tender ID</b>	2024_DTU_265266_1	<b>Withdrawal Allowed</b>	Yes
<b>Tender Type</b>	Open Tender	<b>Form of contract</b>	Works
<b>Tender Category</b>	Works	<b>No. of Covers</b>	2
<b>General Technical Evaluation Allowed</b>	No	<b>ItemWise Technical Evaluation Allowed</b>	No
<b>Payment Mode</b>	Offline	<b>Is Multi Currency Allowed For BOQ</b>	No
<b>Is Multi Currency Allowed For Fee</b>	No	<b>Allow Two Stage Bidding</b>	No

**Payment Instruments**

Offline	S.No	Instrument Type
	1	Demand Draft
	2	R-T-G-S
	3	FDR
	4	ECS
	5	NEFT
	6	Bank Guarantee

**Cover Details, No. Of Covers - 2**

Cover No	Cover	Document Type	Description
1	Fee/PreQual/Technical	.pdf	Enlistment of the contractors should be valid on the last date of submission of bids
		.pdf	Scanned copy of EMD
		.pdf	Scanned copy of registration Certificate of GSTIN
		.pdf	Scanned copy of Experience Certificate. 5 (A)
		.pdf	Scanned copy of letter of transmittal duly fill as indicated Page No. 14
2	Finance	.xls	BOQ

**Tender Fee Details, [Total Fee in ₹ \* - 0.00]**

<b>Tender Fee in ₹</b>	0.00		
<b>Fee Payable To</b>	Nil	<b>Fee Payable At</b>	Nil
<b>Tender Fee Exemption Allowed</b>	No		

**EMD Fee Details**

<b>EMD Amount in ₹</b>	97,791	<b>EMD Exemption Allowed</b>	No
<b>EMD Fee Type</b>	percentage	<b>EMD Percentage</b>	2.0%
<b>EMD Payable To</b>	REGISTRAR, DELHI TECHNOLOGICAL	<b>EMD Payable At</b>	DELHI



## Delhi Tenders

UNIVERSITY

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<b>Work /Item(s)</b>					
<b>Title</b>	Providing and fixing of professional a udio. system. in Dr. B R Auditorium DTU, Delhi.				
<b>Work Description</b>	AS per the NIT Schedule of work				
<b>Pre Qualification Details</b>	Please refer Tender documents.				
<b>Independent External Monitor/Remarks</b>	NA				
<b>Show Tender Value in Public Domain</b>	Yes				
<b>Tender Value in ₹</b>	48,89,530	<b>Product Category</b>	Audio-Visual Equipment	<b>Sub category</b>	NA
<b>Contract Type</b>	Tender	<b>Bid Validity(Days)</b>	60	<b>Period Of Work (Days)</b>	60
<b>Location</b>	DELHI TECHNOLOGICAL UNIVERSITY	<b>Pincode</b>	110042	<b>Pre Bid Meeting Place</b>	NA
<b>Pre Bid Meeting Address</b>	NA	<b>Pre Bid Meeting Date</b>	NA	<b>Bid Opening Place</b>	Engineering Cell, DTU
<b>Should Allow NDA Tender</b>	No	<b>Allow Preferential Bidder</b>	No		

<b>Critical Dates</b>			
<b>Publish Date</b>	25-Nov-2024 03:00 PM	<b>Bid Opening Date</b>	05-Dec-2024 03:35 PM
<b>Document Download / Sale Start Date</b>	25-Nov-2024 03:00 PM	<b>Document Download / Sale End Date</b>	05-Dec-2024 03:00 PM
<b>Clarification Start Date</b>	25-Nov-2024 03:00 PM	<b>Clarification End Date</b>	05-Dec-2024 03:00 PM
<b>Bid Submission Start Date</b>	25-Nov-2024 03:00 PM	<b>Bid Submission End Date</b>	05-Dec-2024 03:00 PM

<b>Tender Documents</b>					
<b>NIT Document</b>	<b>S.No</b>	<b>Document Name</b>	<b>Description</b>	<b>Document Size (in KB)</b>	
	1	Tendernotice_1.pdf	roviding and fixing of professional audio. system, in Dr. B R Auditorium DTU, Delhi.	859.33	
<b>Work Item Documents</b>	<b>S.No</b>	<b>Document Type</b>	<b>Document Name</b>	<b>Description</b>	<b>Document Size (in KB)</b>
	1	BOQ	BOQ_347769.xls	Providing and fixing of professional audio. system, in Dr. B R Auditorium DTU, Delhi.	304.00

<b>Bid Openers List</b>			
<b>S.No</b>	<b>Bid Opener Login Id</b>	<b>Bid Opener Name</b>	<b>Certificate Name</b>
1.	sampark2anil@gmail.com	ANIL KUMAR	ANIL KUMAR
2.	pradeepkteotia@yahoo.com	Pradeep Kumar Teotia	Pradeep Kumar Teotia
3.	aksrivastava@dce.ac.in	Amit Srivastava	AMIT SHRIVASTAVA

<b>Tender Properties</b>			
<b>Auto Tendering Process allowed</b>	No	<b>Show Technical bid status</b>	Yes

<b>Show Finance bid status</b>	Yes	<b>Stage to disclose Bid Details in Public Domain</b>	Technical Bid Opening
<b>BoQ Comparative Chart model</b>	Normal	<b>BoQ Comparative chart decimal places</b>	2
<b>BoQ Comparative Chart Rank Type</b>	L	<b>Form Based BoQ</b>	No

#### **Tender Inviting Authority**

<b>Name</b>	Chief Project Officer
<b>Address</b>	ELHI TECHNOLOGICAL UNIVERSITY

#### **Tender Creator Details**

<b>Created By</b>	Amit Srivastava
<b>Designation</b>	Project Officer
<b>Created Date</b>	25-Nov-2024 01:37 PM

**INDEX**

**Name of Work:** -Providing and fixing of Professional Audio System, in Dr. B R Auditorium DTU, Delhi.

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**NIT APPROVAL**

Name of Work :-	Providing and fixing of professional audio system, in Dr. B R Auditorium DTU, Delhi.
Head of Account	:- <b>1:3:03 fixture and furnishing of building Electrical</b>
Estimated Cost	:- <b>Rs. 48,89,530/-</b>
Earnest Money	:- <b>Rs.97,791/-</b>
Security Deposit	:- <b>2.5 % of Gross Value of the Bill</b>
Performance Guarantee	:- <b>3% of Accepted value of work</b>
Time allowed	:- <b>2 Months and 60 Months of CAMC</b>

NIT approved amounting to **Rs.48,89,530/- Only (Rupees Forty-Eight Lakhs Eight Nine Thousand Five Hundred Thirty Only)**

## INFORMATION AND INSTRUCTION FOR BIDDERS

1. **Bids documents:** - The collection of Bid documents is dispensed away with as there is no physical supply of bid documents and to have absolute anonymity of the bidders participating in e-procurement solution. The bidders can view / download the bid documents, from the <https://govtprocurement.delhi.gov.in>.
2. **Submission of Bids:** The bidders who are desirous of participating in 'e' procurement shall submit their price bids in the standard formats prescribed in the bid documents, displayed at <https://govtprocurement.delhi.gov.in>. The bidder should upload the scanned copies of all the relevant certificates, documents etc., in the <https://govtprocurement.delhi.gov.in> in support of their price bids. The bidder shall sign on all the statements, documents, certificates, uploaded by him, owning responsibility for their correctness / authenticity.
3. **Price Bid Opening:** The Price Bids will be opened online by the concerned officer / officers at the specified date & time and the result will be displayed on the <https://govtprocurement.delhi.gov.in>, which can be seen by all the bidders who participated in the bids.
4. **Processing of Bids:** The concerned officer/officers will evaluate and process the Bids as done in the conventional bids and will communicate the decision to the bidder online.
5. **Payment of Performance Guarantee:** The bidder whose bid is accepted will be required to furnish performance guarantee of 5% (Fi percent) of the tendered amount in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract. This guarantee shall be in the form of DD / Banker Cheque / pay order / FDR / guarantee bonds of any scheduled bank drawn in favour of **Registrar DTU, New Delhi-110085**.
6. **Participation of Bidders at the time of opening of bids:** Bidders have two options to participate in tendering process at the time of opening of Bids:
  - (i) Bidders can come at the place of opening of bids (electronically) as done in the conventional tender process.
  - (ii) Bidders can visualize processing online.
9. **Participation Financial Rules for e-procurement:** The e-procure system would be applicable for purchase of goods, outsourcing of services and execution of work as prescribed in GFRs / PWD manual.
10. **Signing of agreement:** After the award of the contract, an agreement may be signed as done in Conventional Bids.



**ENGINEERING CELL**  
**DELHI TECHNOLOGICAL UNIVERSITY**  
 Shahbad Daulatpur, Bawana Road, Delhi – 110042

**Tender Notice**

The **Chief Project Officer, Delhi Technological University, Shahbad Daulatpur, New Delhi** on behalf of the DTU, invites online Percentage rate in two bid system through e-tendering from the **OEM /Specialized Agency /Authorised Agencies** for providing audio system/conference system.

NIT. No.	Name of work	Estimated Cost	Earnest money	Time Allowed	Start date & time of submission of tender	Time and date of opening	Date of opening of Price Bid
1.	Providing and fixing of Professional Audio System, in Dr. B R Auditorium DTU, Delhi.	RS. 48,89,530/-	RS. 97,791/-	2 Months	3.00 PM On dt.	3.30 PM On dt.	After A/A.

2. Enlistment of the contractors should be valid on the last date of submission of bids. In case only the last date of submission of bids is extended, the enlistment of contractor should be valid on the original date of submission of bids. Bid documents shall be considered valid only of those contractors who will upload the scanned copies of the following documents along-with bid.
  - (1) Scanned copy of EMD
  - (2) Scanned copy of registration Certificate of GSTIN.
  - (3) Scanned copy of Experience Certificate.
  - (4) Scanned copy of technical particular of audio system along the PDF sheets to be uploaded.
  - (5) Scanned copy of letter of transmittal duly fill as indicated Page No. 14
    - (a) Should have satisfactorily completed the works as mentioned below  
 Three similar works each costing not less than Rs.19,55,812/- or two similar works each costing not less than Rs. 29,33,718/- one similar work costing not less than Rs/- .39,11,624/-  
 Similar work shall mean "Providing and fixing Audio System and Conference System."
3. Scanned copies of all required documents viz. Demand draft/Fixed deposit receipt of a schedule bank for EMD in favour of **Registrar, DTU, New Delhi**. Should be uploaded by the contractors for Above mention work. Original DD/PO/FDR for EMD (Bid security) as well as signed copies of uploaded documents shall be deposited in the tender box placed **in Admin. Block, Engineering Cell, DTU Delhi-42** for the same before 1500 hrs. on the last day fixed for uploading of bids failing which their bids shall not be evaluated opened. Price bid shall be uploaded on the website before the last date/time for receipt of the tender. The price bid of only those tenders will be opened whose application are found in order and approved by the competent authority.
4. This tender information may also be seen at website <https://govtprocurement.delhi.gov.in> Tender Detail No
5. The department reserves the right to reject or accept any or all application without assigning any reasons.

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Correction.....  
 Deletion.....  
 Insertion.....

**GOVERNMENT OF NCT OF DELHI  
DELHI TECHNOLOGICAL UNIVERSITY  
NOTICE INVITING TENDER**

1. Percentage rate e-tenders are invited on behalf of the Delhi Technological University from as per NIT for the work and following documents are to be uploaded: i.e. (i) Technical bid & (ii) Price bid, from the specialized agency for providing audio system for the following work through e-tendering only
- 1.1 Enlistment of the contractors should be valid on the last date of submission of bids. In case only the last date of submission of bids is extended, the enlistment of contractor should be valid on the original date of submission of bids. Bid documents shall be considered valid only of those contractors who will upload the scanned copies of the following documents along-with bid.
  - (1) Scanned copy of EMD
  - (2) Scanned copy of registration Certificate of GSTIN.
  - (3) Scanned copy of Experience Certificate.
  - (4) Scanned copy of technical particular filled by bidder at Page No. 22 along the PDF sheets to be uploaded.
  - (5) Scanned copy of letter of transmittal duly fill as indicated Page No. 14
    - (a) Should have satisfactorily completed the works as mentioned below  
Three similar works each costing not less than Rs.19,55,812/- or two similar works each costing ~~ml~~ less than Rs.29,33,718/- one similar work costing not less than Rs/-39,11,624/-  
Similar work shall mean "Providing and fixing Audio System and Conference System."
2. Agreement shall be drawn with the successful tenderer on prescribed Form No. CPWD 8, which is available as a Govt. of India Publication. Tenderer shall quote his rates as per various terms and conditions of the said form, which will form part of the agreement.
3. The time allowed for carrying out the work will be As per NIT from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
4. The site for the work is available.
5. Tenders forms can be down loaded upto .....(3.00 PM)  
Tender documents consisting of plans, specifications, the schedule of quantities of the various classes of work to be done and the set of terms & conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen in the office of the Chief Project Officer, Delhi Technological University, Shahbad Daulatpur, New Delhi between hours of 11.00 AM & 3.00 PM from ..... to.....every day except on Sundays and Public holidays. Tender documents, excluding standard form, can be downloaded from the website <https://delhi.govtprocurement.co.in> free of cost and deposited along the following: -
6. **Earnest money** in the form of fixed deposit receipt of a schedule bank/ Demand Draft of a scheduled bank issued in favour of **Registrar DTU, New Delhi**. Shall be scanned and uploaded to the e-tendering website within the period of bid submission.
7. Tenders will be received online by the Chief Project Officer , Delhi Technological University, Shahbad Daulatpur, New Delhi upto 03.00 PM on \_\_\_\_\_ and technical bids will be opened online by him or his authorized representative in his office on the same day and on \_\_\_\_\_ at 03.30 PM.

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8. The contractor whose tender is accepted, will be required to furnish performance guarantee of 5% (Five percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of Deposit at call receipt of any scheduled bank/ Bankers's Cheque of any scheduled bank/ Demand draft of any scheduled bank/ Pay order of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form.
9. The description of the work as follows: **As per Schedule of work.**  
Copies of other drawings and documents pertaining to the works will be open for inspection by the tenderers at the office of the above-mentioned officer.  
Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own 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 the contract documents. Submission of tender by a tenderer 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 of conditions and rates at which stores, tools and plant etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
10. The competent authority on behalf of the Delhi Technological University does not bind himself to accept the lowest or any other tender, and reserves to himself the authority to reject any or all of the tenders received without the assignment of any reason. All tenders, in which any of the prescribed conditions is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer, shall be summarily rejected. The public enterprises who avails benefits of the purchase preference should be subjected to adequate penalties for cost overruns etc.
11. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
12. The competent authority on behalf of the Delhi Technological University reserves to himself the right to accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
13. The contractor shall not be permitted to tender for works in the CPWD Circle (responsible for award and execution of contracts) in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
14. No Engineer of gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of two years after his retirement from Govt. Service without previous permission of the Govt. of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Govt. of India as aforesaid before submission of the tender or engagement in the contractor's service.
15. The tender for the work shall remain open for acceptance for a period of Ninety (90) days from the date of opening of tenders. If any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier or makes any modifications in the terms and conditions of the tender which are not acceptable to the department, then the Govt. shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid.
16. The Notice Inviting Tender shall form a part of the contract document. The successful Tenderer / Contractor, on acceptance of his tender by the Accepting Authority, shall within 15 days from the stipulated date of start of the work sign the contract consisting of: -
- a) The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any

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- correspondence leading thereto.
- b) Standard C.P.W.D. Form 8.
17. For composite tenders
- 17.1.1 The tenderer must associate with himself agencies of the appropriate class eligible to tender for the other components individually.
- 17.1.2. It will be obligatory on the part of the tenderer to sign the tender documents for all the components. (The Schedule of quantities, conditions and special conditions etc.)
- 17.1.3. After the work is awarded, the contractor will have to enter into separate agreements for each component with the officer concerned.
- 17.1.4 Chief Project Officer in charge of minor component shall make interim payments in respect of minor component of work. Chief Project Officer in charge of the major component shall make the payment against final bill of the composite contract.
- 17.2 The Chief Project Officer in charge of the major component will call tenders for the composite work. The cost oftender document and Earnest money will be fixed with respect to the combined estimated cost put to tender for the composite tender. Security deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works. The earnest money will become part of the security deposit of the major component of work.
- 17.3 On acceptance of the composite tender by the competent authority the letter of award will be issued by the Chief Project Officer in charge of the major competent on behalf of the Delhi Technological University, making it clear of award that the contractor will have to execute separate agreements for different components of work with the concerned officers of the respective discipline (Designation to be given).

**GOVERNMENT OF NCT OF DELHI  
DELHI TECHNOLOGICAL UNIVERSITY**

STATE DELHI  
BRANCH E & M

Engineering Cell  
DIVISION - Electrical

**Item Rate/ Percentage Rate Tender & Contract for Works**

Tender for the work of: - Providing and fixing of professional audio system, in Dr. B R Auditorium DTU, Delhi.

- (i) To be submitted by 3.00 **P.M.** hours on \_\_\_\_\_ to Chief Project Officer, Delhi Technological University, Shahbad Daulatpur, New Delhi (time) (date)
- (ii) Eligibility criteria to be opened at 3:30 PM on \_\_\_\_\_ in the office of Chief Project Officer, Delhi Technological University, Shahbad Daulatpur, New Delhi. Price Bid shall be opened at **03:30** PM on \_\_\_\_\_ in the office of Chief Project Officer, Delhi Technological University, Shahbad Daulatpur, New Delhi.

**TENDER**

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F. Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & 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 for the execution of the work specified for the Delhi Technological University within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

We agree to keep the tender open for ninety (90) days from the due date of submission thereof and not to make any modifications in its terms and conditions.

A sum of Rs. as per NIT is hereby forwarded in DD/FDR at call receipt of a Scheduled Bank/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank as earnest money. If I/we fail to furnish the prescribed performance guarantee within prescribed period, I/we agree that the said Delhi Technological University or his successors in office 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 Delhi Technological University or his successors in office 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 him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, upto maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in Clauses 12.2 and 12.3 of the tender form. Further I/We agree that in case of forfeiture of earnest money or both Earnest Money & Performance guarantee as aforesaid. I/We shall be debarred for participation in the re-tendering process of the work.

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I/We hereby declare that I/We shall treat documents drawings and other records connected with the work as secret/ confidential documents and shall not communicate information /derived there from to any person 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 safety of the State.

Dated .....

Signature of Contractor  
Postal Address

Witness:

Address:

Occupation:

**ACCEPTANCE**

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the Delhi Technological University for a sum of Rs. \_\_\_\_\_ (Rupees

\_\_\_\_\_) The letters referred to below shall form part of this contract Agreement: -

- a)
- b)
- c)

For & on behalf of the Delhi Technological University.

Signature \_\_\_\_\_

**Dated .....Designation \_\_\_\_\_**

**SCHEDULE 'A'**

Schedule of quantities (Enclosed.)

As per Schedule attached (Page 14)

**SCHEDULE 'B'**

Schedule of materials to be issued to the contractor free of cost.

S. No.	Description of Item	Quantity	Recovery rates in figures & words at which the material will be charged to the contractor.	Place of Issue
1	2	3	4	5

-N/A- SCHEDULES

**SCHEDULE 'C'**

Tools and plants to be hired to the contractor.

S.No.	Description	Hire charges per day.	Place of Issue
1	2	3	4

NOT APPLICABLE

**SCHEDULE 'D'**

Extra schedules for specific requirements / documents for the work, if any.

- Enclosed -

**SCHEDULE 'E'**

Schedule of component of Cement, Steel, Other Materials, Labour etc. for price escalation.

**SCHEDULE 10 'C'**

Schedule of labour rates etc for price escalation

- Not Applicable.

**CLAUSE 10 CC**

Component of Cement expressed as per cent of total value of work	Xc	<b>Not Applicable</b>
Component of Steel expressed as per cent of total value of work	Xs	<b>Not Applicable</b>
Component of Materials expressed as per cent of total value of work	Xn	<b>Not Applicable</b>
Component of Labour expressed as per cent of total value of work	Y	<b>Not Applicable</b>
Component of POL expressed as per cent of total value of work	Z	<b>Not Applicable</b>

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**SCHEDULE 'F'**

Reference to General Conditions of contract.

Name of Work:-Providing and fixing of professional audio system, in Dr. B R Auditorium DTU, Delhi.

Estimated cost of work. : Rs. 48,89,530/-

(i) Earnest Money : Rs. 97,791/-

(ii) \_\_\_ Performance Guarantee: 5% (Five Percent) of accepted value of Tender.

(iii) \_\_\_ Security Deposit: 2.5% (Two and Half percent) of Gross Value of the Bill.

**GENERAL RULES & DIRECTIONS:**

Officer inviting tender	Chief Project Officer
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3	DTU campus, Delhi
	See below.

**Definitions:**

2 (v)Engineer –in – charge	Chief Project Officer DTU campus, Delhi
2 (viii) Accepting Authority	Vice Chancellor, DTU campus, Delhi
2 (x)Percentage on cost of materials and labour to cover all overheads and profits.	15 %
2 (xi)Standard Schedule of Rates.	DSR 2016/Market Rates
2 (xii)Department	Autonomous (Delhi Govt.)

**9 (ii)Standard CPWD Form**

**CPWD form 8 as modified & corrected upto date.  
Clause 1**

i) Time allowed for submission of Performance Guarantee From the date of issue of letter of acceptance, in days	<u>15 Days</u>
ii) Maximum allowable extension beyond the period provided in i) above in days	<u>7 Days</u>

**Clause 2**

Authority for fixing  
Compensation under Clause 2.

Vice Chancellor  
Delhi Technological University  
New Delhi

**Clause 2 A**

Whether Clause 2 A shall be applicable

Not applicable

**Clause 5**

Number of days from the date of issue of letter  
Of acceptance for reckoning date of start

10 days

**Miles Stone(s) as per table given below:-**

**TABLE OF MILE STONES (S)**

S.No.	Description of Milestone(Physical)	Time Allowed in days (from date of start)	Amount to be with - held in case of non-achievement of milestone.
<b>AS PER TERMS AND CONDITION</b>			

**OR**

S.No.	Financial Progress	Time Allowed (from date of start)	Amount to be with - held in case of non-achievement of milestone.
<b>AS PER TERMS AND CONDITION</b>			

Time allowed for execution of work

**2 Months**

**Clause 6**

Clause applicable (6, 6A)

The Clause 6A applicable for the work whose Estimated Cost put to tender is Rs. 15 Lakh & above

**Clause 7**

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.

**Clause 10 A**

List of testing equipment to be provided by the contractor at site lab.

Not applicable.

J.E(E)

Correction.....  
Deletion.....  
Insertion.....

**Clause 10 B (ii)**

Whether Clause 10 B (ii) shall be applicable

Not applicable

**Clause 10 CA**

Material covered under the Clause

Not Applicable

**Clause 10 CC**

Clause 10 CC to be applicable in contracts  
With stipulated period of completion exceeding  
The period shown in next columns.

\_\_\_\_N/A\_\_\_\_\_

**Clause 11**Specifications to be followed  
execution of work

As per CPWD General Specification for Elect.  
Works. As per Gen. electrical specifications 2013 amended upto  
date

**Clause 12**

12.2 & 12.3 Deviation limit beyond which  
Clause 12.2. & 12.3 shall apply  
for building work

No limit

12.5 Deviation limit beyond which  
clauses 12.2 & 12.3 shall apply  
for foundation work.

No limit

**Clause 16**

Competent Authority for  
Deciding reduced rates.  
upto 5% of Contract value

Vice Chancellor  
New Delhi

**Clause 36 (i)**

Requirement of technical representative (s) and recovery rate(s)..

S. No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/ Technical representative)	Minimum Experience	Number	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 or Diploma Holder	Electrical	Principal Technical representative	2 Years 5 Years	1 1	Rs. 15000/- Per Month	Rs. Fifteen Thousand Per Month

**Clause 42**

- i) (a) Schedule/ statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2016 printed by C.P.W.D.

Not Applicable.

J.E(E)

Correction.....  
Deletion.....  
Insertion.....

- ii) Variations permissible on theoretical quantities : Not applicable
- (a) Cement for works with estimated : Not applicable  
Cost put to tender not more than Rs. 5 Lakhs.  
For works with estimated cost put to : Not applicable  
Tender more than Rs. 5 lakhs.
- b) Bitumen All works. : Not applicable
- c) Steel Reinforcement and structural steel : Not applicable  
Sections for each diameter, section and category
- d) All other materials : Not applicable

*RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION*

SI. No.	Description of Item	Rates in figures and words at which recovery shall be made from the Contractor. Rates in schedule 'B' plus 10% in case materials issued by the Department.		
		Excess beyond permissible variation.	Less use beyond the Permissible variation.	
1.	Cement			
2.	Steel reinforcement			
3.	Structural sections			
4.	Bitumen issued free			NOT APPLICABLE
5.	Bitumen issued at stipulated fixed price.			

**LETTER OF TRANSMITTAL**

[On the Letterhead paper of the Tenderer, or partner Responsible Including full Postal address, telephone no., fax no. and E-Mail and address]

No.....

Date.....

To,

Chief Project Officer  
Delhi Technological University  
Shahbad Daulatpur Delhi- 42

Name of Work: - Providing and fixing of professional audio system, in Dr. B R Auditorium DTU, Delhi.

Sir,

Having examined the details given in press Notice and bid document for the above work, I/We hereby submit the relevant information.

I/We hereby certify that all the statements made and information supplied in the enclosed forms A to D and accompanying statement are true and correct.

I/We have furnished all information and details necessary for eligibility and have no further pertinent information to supply.

I/We submit the requisite certified solvency certificate and authorize Chief Project Officer , Delhi Technological University, Shahbad Daulatpur, New Delhi to approach the Bank issuing the solvency certificate to confirm the correctness thereof. I/We also authorize Chief Project Officer , Delhi Technological University, Shahbad Daulatpur, New Delhi.

To approach individuals, employers, firms and corporation to verify our competence and general reputation.

I/We submit the following certificates in support of our suitability, technical knowledge and capability for having successfully completed the following works:

S.No.	Name of Work	Certificate from

The firm should upload letter of transmittal on separate sheet duly stamped and signed. Incase above space is in sufficient.

Enclosures:

Seal of bidder

Date of submission

SIGNATURE(S) OF BIDDERS (S)

J.E(E)

Correction.....  
Deletion.....  
Insertion.....

**FORM OF EARNEST MONEY (BANK GUARANTEE)**

WHEREAS, contractor, M/s.....(Name of contractor) (here in after called "the contractor") has submitted his tender dated ..... (date) for the work of ..... (name of work) (here in after called "the Tender")

KNOW ALL PEOPLE by these presents that we ..... (name of bank) having our registered office at ..... (hereinafter called "the Bank") are bound unto **Registrar Delhi Technological University, Delhi.** (here in after called "the Engineer-in-Charge") in the sum of Rs ..... /- (Rs. in words .....) for which payment well and truly to be made to the said Engineer-in-Charge 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 CONDITIONS of this obligation are:

- (1) If after tender opening, the Contractor withdraws his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;
- (2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:
  - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required;  
OR
  - (b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor,  
OR
  - (c) fails or refuses to start the work, in accordance with the provisions of the contract and Instructions to contractor,  
OR
  - (d) fails or refuses to submit fresh Bank Guarantee of an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

We undertake to pay to the Engineer-in-Charge **either** up to the above amount **or part thereof** upon receipt of his first written demand, without the Engineer-in-Charge having to substantiates his demand, provided that in his demand the Engineer-in-Charge will note that the amount claimed by him is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date\* .....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 Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not laterthan the above date.

DATE .....

SIGNATURE OF THE BANK WITH SEAL

WITNESS .....

(SIGNATURE, NAME AND ADDRESS)

\* Date to be worked out on the basis of validity period of 6 months from last date of submission of tender.

**Form of Performance Security (Guarantee)  
Bank Guarantee Bond**

1. In consideration of the Registrar, Delhi Technological University (hereinafter called "The Government") having offered to accept the terms and conditions of the proposed agreement between \_\_\_\_\_ and (hereinafter called "the said contractor(s) for the work "as per NIT" (hereinafter 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.

We, \_\_\_\_\_ (hereinafter referred to as "the Bank") hereby undertake (indicate the name of the Bank) to pay to the Government an amount not exceeding Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) on demand by the Government.

2. We, \_\_\_\_\_ do hereby undertake to pay the amounts due and payable

Under this guarantee without any demure, merely on a demand from the Government stating that the amount claimed as required to meet the recoveries due or likely to be 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 undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractors) 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, \_\_\_\_\_ further agree that the guarantee herein contained shall (indicate the name of the Bank) 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 Government 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 Government 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, \_\_\_\_\_ further agree with the Government that the Government (indicate the name of the Bank) shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms & conditions of the said agreement or to extend time of performance by the said Contractor (s) from time or the postpone for any time or from time any of the powers exercisable by the Government against the said contractor(s) and to forbear or enforce any of the terms & 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 Government or any indulgence by the Government 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.

J.E(E)

Correction.....  
Deletion.....  
Insertion.....

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
7. We \_\_\_\_\_ lastly undertake not to revoke this guarantee except (indicate the name of the Bank)with the previous consent of the Government in writing.
8. This guarantee shall be valid upto\_\_\_\_\_unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs\_\_\_\_\_ (Rs\_\_\_\_\_only) 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)

### **PERFORMANCE GUARANTEE**

- 1) The contractor shall submit an irrevocable PERFORMANCE GUARANTEE of 5% (Five percent of the accepted value tendered amount) in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (notwithstanding and/ or without prejudice to any other provisions in the contract) within 15 days of issue of letter of acceptance. This period can be further extended by the Engineer-in-Charge upto a maximum period of 7 days on written request of the contractor stating the reason for delays in procuring the Bank Guarantee to the satisfaction of the Engineer-in-Charge.

This guarantee shall be in the form of Govt. securities or fixed deposit receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the form annexed hereto. In case a fixed deposit receipt of any Scheduled Bank is furnished by the contractor the Govt. as part of the performance guarantee & the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forth with on demand furnish additional security to the Govt. to make good the deficit.

- 2) A letter of acceptance shall be issued informing the successful tenderer of the decision of the competent authority to accept his tender and to submit the Performance Guarantee within 15 days in any of the prescribed form. On receipt of prescribed performance guarantee, necessary letter to commence the work shall be issued and site of work shall be handed over thereafter. In case of failure by the contractor to furnish the performance guarantee within the specified period, Government shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the earnest money absolutely.
- 3) The Performance Guarantee shall be initially valid upto the stipulated date of completion plus 30 Days beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor, without any interest.
- 4) The Engineer-in-Charge shall not make a claim under the performance guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/ or without prejudice to any other provisions in the contract agreement) in the event of :-
- a) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee.
- (b) Failure by the contractor to pay President of India any amount due, either as agreed by the contractor or determined under any of the clauses/ conditions of the agreement, within 30 Days of the service of notice to this effect by Engineer-in- Charge.

In the event of the contract being determined or rescinded under provision of any of the clause/ condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the President of India.

**GENERAL TERMS AND CONDITION**

**Name of Work:-** Providing and fixing of professional audio system, in Dr. B R Auditorium DTU, Delhi.

1. The work shall be executed as per relevant CPWD general specifications amended upto date and as per the directions of Engineer-in-Charge. All the material shall be got approved from Engineer-in- Charge before delivery at site.
2. No extra payment payable for cartage etc. Estimated cost includes cartage; packaging charges etc. firms shall quote their rates accordingly inclusive of all taxes etc.
3. The full and final payment will be made after successful completion, execution and commissioning of work upto entire satisfaction of the E-in-C as well as the client department.
4. There will be no deviation regarding makes & specifications of the equipments taken in the tender.
5. However deptt. may consider higher specifications if it meets our requirement.
6. All equipments shall be delivered with technical catalogues, instructions manual, schematic diagram etc.

**7. GUARANTEE/WARRANTY**

The Lowest bidder should give an undertaking from the OEM regarding the authorization certificate to provide the service spare parts for minimum period of 3 years after the warranty period gets over; The authorization should be for the main items Speakers; Amplifiers & Audio system. The Authorization lowest bidder have to give first only after that the PG letter should be issued.

- a) The authorization letter will be in favour of Engineer-In-Charge, New Delhi-110042.
- b) The equipment supplied by the firm shall be guaranteed against failure due to quality of material, workmanship, circuit design of any other failure, for a period of at least Sixty Months (60) months from the date of commissioning and acceptance of the equipment.
- c) Contractor shall warranty that all the equipment and material to be supplied under the contract are new and free from any defects and faults in material, workmanship and manufactured and are of highest grade and consistent with the established and generally excepted standards for the same type of equipments and material and shall performing full conformity with the specifications and drawing. The contractor shall be responsible for any defect that may develop under the contract conditions and under proper use, arising from faulty material, design or workmanship such as corrosion, in adequate quantity of material to meet equipment requirement, in adequate contact protection, deficiency in circuit design and / or otherwise and shall remedy such defects at its own cost when called upon to do so by the purchaser, who shall state in writing in what respect stores is faulty. The contractor shall warrant that if system deficiency are noticed in operation of the system for which software function are involved then the software update for correcting the deficiency shall be supplied free of cost for the purchaser. The warranty shall survive inspection or payment of complaints notified prior to such

date twelve months after the stores have been taken over after successful commissioning of the entire equipment.

- d) If it becomes necessary for the contractor to replace or renew any defective portion/ portions of the equipment, the provision of paragraph 7 above shall apply to the portion/ portions of the equipment so replaced or renewed or until the end of the above mentioned period of twelve months. If any defect is not remedied within a reasonable time the purchaser may proceed to the work at the contractor's risk and expenses, after the contractor was informed by registered letter, without prejudice to any other right which the purchaser may have against the contractor in respect to such defect.
- e) Replacement under warranty shall be made by the contractor free of all charges at site including freight, insurance and incidental charges.

#### **8. DOCUMENTS TO BE FURNISHED ON COMPLETION OF INSTALLATION**

Three sets of the following documents shall be furnished to the department by the contractor on completion of work:

- (a) 03 Sets Completion drawings.
- (b) 02 Sets of manufacturer's technical catalogues of all equipments and accessories.
- (c) Operation and maintenance manual of all major equipments detailing all adjustments, operation and maintenance procedures.
- (d) The contractor shall submit bill /original invoice / challan / import certificate in evidence of genuineness of material as desired by Engineer-in-Charge.

## **SALIENT HIGHLIGHTS OF THE TENDER AND OBLIGATION OF THE CONTRACTOR**

1. The Contractor shall take full responsibility for the adequacy, stability and safety of all site operations, of all methods of construction, manufacture, and of all the Works, irrespective of any approval or consent by the Employer.
2. The Contractor shall comply with all Applicable Laws and Applicable Permits of Central Govt. and Delhi Govt. (including renewals as required) in the performance of its obligations under this Contract. Nothing extra will be paid to Contractor on these accounts.
3. Contractor's care of the Works:- The Contractor shall bear full risk in and take full responsibility for the care of the Works and of the Materials, goods and equipment for incorporation therein from the Commencement Date until the Completion Certificate is issued, except to the extent that any loss of or damage to the same shall have arisen from any default or neglect of the Employer. The Contractor shall throughout the execution of the Works including the carrying out of any testing, commissioning (including Integrated Testing and Commissioning), or remedying of any defect:
  - a) Take full responsibility for the adequacy, stability, safety and security of the Works, Plant, Goods, Contractor's Equipment, Temporary Works, operations on Site and methods of manufacture, installation, construction and transportation;
  - b) Have full regard for the safety of all persons on or in the vicinity of the Site (including without limitation persons to whom access to the Site has been allowed by the Contractor), comply with all relevant safety regulations, including provision of safety gear, and insofar as the Contractor is in occupation or otherwise is using areas of the Site, keep the Site and the Works (so far as the same are not completed and occupied by the Employer) in an orderly state appropriate to the avoidance of injury to all persons and shall keep the Employer indemnified against all injuries to such persons.
  - c) Where any work would otherwise be carried out in darkness, ensure that all parts of the Site where work is being carried out are so lighted as to ensure the safety of all persons on or in the vicinity of the Site and of such work
4. **Housing, Electricity, water and other services**  
 No accommodation is available at the site of work and no labour huts shall be allowed within the Site. The contractor has to make his own arrangements for housing, stores and accommodations for his labour and other employees etc. Contractor should visit the site and see in what manner he is able to arrange the above. He shall submit a site layout plan indicating the locations of various site facilities like Contractor's site office, Stores etc. to be created by him at his cost for the execution of work. The Contractor shall be responsible for procuring of all power, water and other services that it may require at his own cost and expense.
5. **Particular condition for Maintaining by Laws of NGT and Housekeeping work.**
  - a) General Housekeeping shall be carried out by the contractor and ensured at all times at Work Site, Fabrication Yard, Workshop, Labour Camp, Stores, Offices and toilets/urinals etc.
  - b) The contractor shall be responsible to provide segregated containers for disposal of debris at required places and regular cleaning of the same.
  - c) Proper and safe stacking of material are of paramount importance at yards, stores and such locations where material would be unloaded for future use.
  - d) The storage area shall be well laid out with easy access and material stored / stacked in an orderly and safe manner.
  - e) The contractor shall arrange all necessary measures to prevent dust pollution in and around the working site/labour camp etc. and strictly follow the guidelines of Hon'ble NGT. In case of any notice/penal action by NGT for any violation the cost of penalty shall be borne by the contractor. In case of any violation of NGT directions, the contractor shall be penalized at Rs.5,000/-per single violation/ non-compliance compounded to a maximum of Rs.1,00,000/- at any single instance of above mentioned provisions except of Traffic management. The decision of Employer, regarding violation and the number of instances, shall be final and binding on the contractor. The compliance of above provisions is deemed to be included in the quoted amount of the contractor and no claim / payment whatsoever shall be entertained on this account.

### **SPECIFIC CONDITIONS OF CONTRACT TO GREEN BUILDING PRACTICE**

The contractor shall strictly adhere to the following conditions as part of his contractual obligations:-

- a) The Contractor should follow the construction plan as proposed by the Architect / Engineer-in-Charge to minimize the site disturbance.
  - b) The contractor shall provide potable water for all workers at his own cost.
  - c) The contractor shall comply with the safety procedures, norms and guidelines (as applicable) as outlined in the document Part 7 Constructional practices and safety, 2005, National Building code of India-2016, Bureau of Indian Standards. A copy of all pertinent regulations and notices concerning accidents, injury and first-aid shall be prominently exhibited at the work site. Depending upon the scope & nature of work, a person qualified in first-aid shall be available at work site to render and direct first-aid to casualties. A telephone may be provided to first-aid assistant with telephone numbers of the hospitals displayed. Complete reports of all accidents and action taken thereon shall be forwarded to the competent authorities.
  - d) The contractor shall provide O & M Manuals wherever applicable.
6. The contractor (s) shall make his own arrangement for electricity and water required for the execution of work and nothing extra shall be paid for the same. However, the Engineer-in-Charge shall recommend the application to the NDPL for electric connection, if desired. Necessary payment shall be made by the contractor directly to the department concerned. In case NDPL fails to sanction the electric connection or delays the sanction for electric connection, the contractor shall make his own arrangement by providing diesel generators of adequate capacity at his own cost.
  7. For water supply, contractor shall make his own arrangements including boring of tube well with necessary clearance from DJB and all local authorities as per rules and nothing extra shall be paid by the Department for arrangement of water or on its treatment as per IS : 456- 2000/ CPWD Specification 2019 volume-I to II.

## **GENERAL TERMS AND CONDITIONS**

1. The work shall be executed as per CPWD General Specifications for electrical works Part-I 2013 Internal, Part-II -1994 and amended up to date relevant IE rules, relevant IS and as per directions of Engineer-in-charge. These additional specifications and conditions are to be read in the Additional specifications and conditions shall apply. However, nothing extra shall be paid on account of these as the same are to be read along with schedule of quantities for the work.

2. **RATES**

The work shall be treated as on works contract basis and the rates tendered shall be for complete items of work inclusive of all taxes (including works contract tax, GST if any), duties, and levies etc. and all charges for items contingent to the work, such as, packing, forwarding, insurance, freight and delivery at site for the materials to be supplied by the contractor, watch and ward of all materials for the work at site etc.

3. **TAXES AND DUTIES**

The rates shall be inclusive of all taxes & duties etc.

4. **TOOLS FOR HANDLING AND ERECTION**

All tools and tackles required for handling of equipment's and materials at site of work as well as for their assembly and erection and also necessary test instruments shall be the responsibility of the contractor. No T&P shall be issued by the department.

5. **CO-ORDINATION WITH OTHER AGENCIES**

The contractor shall co-ordinate with all other agencies involved in the building works so that the building work is not hampered due to delay in his work.

6. **STRUCTURAL ALTERATIONS TO BUILDINGS**

- (a) No structural member in the building shall be damaged/ altered, without prior approval from the competent authority through the Engineer-in-charge.
- (b) Structural provisions like openings, cut outs, if any, provided by the Department for the work, shall be used. Where these require modifications, or where fresh provisions are required to be made, such contingent works shall be carried out by the contractor at his cost.
- (c) All such openings in floors provided by the Department shall be closed by the contractor after installation etc. as the case may be, by any suitable means as approved by the Engineer-in-charge without any extra payment.

7. **STORAGE AND CUSTODY OF MATERIALS**

The Room inside the building may be used for storage of materials. No separate storage accommodation shall be provided by the department. Watch and ward of the stores and their safe custody shall be the responsibility of the contractor till the final taking over the installation by the department.

8. **CARE OF THE BUILDING**

Care shall be taken by the contractor while handling and installing the various equipment's and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste material arising out of the installation from the site of work.

**9. Inspection and Testing**

The Engineer-in-charge reserves the right to independently test the materials / components /equipment as he deems fit. The cost of such testing shall be initially borne by the contractor. The cost of the tests shall be reimbursed on production of receipts in case the materials / components/equipment have passed the test. In case of materials / components /equipment failing in testing no charges shall be reimbursed and such materials / components / equipment shall be replaced.

**10. WORKS TO BE ARRANGED BY THE DEPARTMENT**

Following works shall be arranged by the Department: Power Supply for final testing and installation:- 230 Volts, Single Phase, 50 Hz, one point supply for testing & commissioning at Site. Termination switchgear however, shall be provided by the contractor.

**11. Data manual and Drawings to be furnished by the tenderers:-**

Contractor shall preserve the copies of invoices, test certificates; gate passes etc. to prove the Genuineness of material / purchases.

**12. After Award of work**

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 components & materials, man power and equipment 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 Programme and progress reports and update / re-schedule the same every month. These shall be submitted by the contractor in soft copy also besides forwarding hard copy of the same.

Indemnity:-The successful tenderer shall at all times indemnify the department, 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 equipment's and ancillary equipment under the supervision of the successful tenderer in so far as the latter is responsible.

**13. 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:**

- a. Schedule of quantities
- b. Additional and Commercial Conditions
- c. Technical specifications of the tender
- d. General Conditions of Contract for CPWD Works
- e. Drawings
- f. CPWD General Specifications

Relevant IS or any other International code in case IS code is not available

**14. Cooperation with other agencies:**

The successful tender shall co-ordinate with other contractors and agencies engaged in the construction of 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 completed portion of the work 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.

**15. Compliance with Regulations and Indian standards**

(a) 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:

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

(b) Successful tenderer shall arrange for compliance with statutory provisions of safety regulations and departmental requirements of safety codes in respect of labour employed on the work by the tenderer. Failure to provide such safety requirement would make the tenderer liable for penalty of Rs.50/- for each default. In addition, the department will be at liberty to make arrangement for the safety requirements at the cost of tenderer and recover the cost thereof from him.

**16.** The lowest tenderer after award of work should submit the following documents from OEM:-

- a. The OEM shall unconditionally support the lowest tenderer technically throughout the execution of contract as well as for Maintenance/Comprehensive maintenance for the useful life of the Audio Video system.
- b. OEM shall provide all the spares required for healthy functioning of the equipment for at least seven years from the date of supply of the Audio Video equipment.
- c. Catalogue for all equipment's. All the technical specifications of items will be submitted by the associate contractor, which must be duly signed and stamped by the OEM for approval from the competent authority.

**17. TRAINING:**

The scope of works includes the technical training to department/ client on operation & attending minor troubleshooting of the equipment at site. Nothing extra shall be payable on this account.

**18.** Payment terms and conditions: -

The following percentage of contract for head shall be payable against the stage of work shown herein 70% against supply, as per items of the schedule of work, after delivery at site in good condition against guarantee bond. 20% after completion of the installation, testing, commissioning trial running, training & handing over of the sub-head to client department for beneficial use, as per items of the schedule of work. Balance 10% will be paid only after successful completion five year CAMC and its operation .

**TERMS & CONDITION DURING WARRANTY PERIOD**

1. Conducting a thorough check of the system and following preventive maintenance schedule for all the equipment installed during the warranty period.
2. Providing on call services for any breakdown and rectification of fault within 24 hours of thereporting of the problem.
3. Any delay in attending the complaints after 48 hours of lodging will attract a penalty of Rs.1,000/- per day.
4. Repair / replacement of any part found defective during such diagnosis.
5. Travel, boarding, lodging and other incidental expenses that the successful bidder may need to incur during the course of such repair.

## LIST OF ACCEPTABLE MAKES

S No	Items	Makes
1	Line Array Speaker	JBL (By Harman) / Bose / Val Audio/Martin Audio/Celto Acoustique/Beta Three
2	Speaker Frame	Custom
3	Subwoofer	JBL (By Harman) / Bose / Val Audio/Martin Audio/Celto Acoustique/Beta Three
4	12" Stage Monitor Speaker	JBL (By Harman) / Bose / Val Audio/Martin Audio/Celto Acoustique/Beta Three
5	8" Front fills & Delay Speaker	JBL (By Harman) / Bose / Val Audio/Martin Audio/Celto Acoustique/Beta Three
6	Four channel amplifier	Electro Voice (By Bosch) / Crown (Harman) / Val Audio/Martin Audio/Celto Acoustique/ Bose / Beta Three
7	All type of Dual Channel Power Amplifier	Electro Voice (By Bosch) / Crown (Harman) / Val Audio/Martin Audio/Celto Acoustique/ Bose / Beta Three
8	Dual Channel Power Amplifier	Electro Voice (By Bosch) / Crown (Harman) / Val Audio/Martin Audio/Celto Acoustique/ Bose / Beta Three
9	Networkable Loudspeaker Management System	BSS by Val Audio/ Martin Audio / Celto Acoustique/ Bose / Beta Three
10	Audio Mixing Console	Yamaha MG series / Allen & Heath ZED series / Soundcraft Signature Series LX7
11	Wireless Handheld Microphone System	Senneheiser /Shure / Audio Technica
12	Wireless Lapel Microphone System	Senneheiser /Shure / Audio Technica
13	Gooseneck cardioid Microphone	Senneheiser /Shure / Audio Technica
14	Wired Vocal & Instrumental Microphone	Senneheiser /Shure / Audio Technica
15	Mic stand	Custom
16	CAT-6 Cable	D-Link / Lindy / Bestnet / TP-Link
17	Recorder and streaming device	ATDSC / Lumens / Datavideo
18	Microphone Cable	Krystals / Kramer / Bestnet
19	Speaker Cable	Krystals / Kramer / Bestnet
20	System Rack	MTS / A- Uniks / Rittal / SKOM
21	HDMI Cable	Kramer / D-Link / Bestnet

The product shall be specification compatible. The lowest bidder shall give the speakers and power amplifier of the same make or group of company. No alternate make shall be accepted

## Schedule of Work

**Name of work :-** Providing and fixing of professional audio system, in Dr. B R Auditorium DTU, Delhi.

S.N.	Description of item	Qty.	Rate	Unit	Amount
1	SITC of Two-Way full range Speakers for Main Speaker with 15" LF and 3" Voice coil or above + 1" exit HF, Power Handling (AES standard) 500W - 700 RMS / 2000W - 2800 Peak, Frequency Response 45/55Hz - 21kHz or better, Average Sensitivity - 95dB/W/m or above, Max SPL 130db peak or above , Nominal Directivity - 80° x 50° or better, Cabinet - 18mm birch plywood	4	1,15,457	Each	461828
2	SITC of Two-Way full range Speakers for Filler Speaker with 8" LF and 2" Voice coil or above + 1" exit HF, Power Handling (AES standard) 200W - 300 RMS / 800W - 1200 Peak, Frequency Response 62Hz-21kHz or better, Average Sensitivity - 93dB/W/m or above, Max SPL 125db peak or above , Nominal Directivity - 80° x 50° or better, Cabinet - 12mm birch plywood	8	44,900	Each	359200
3	SITC of Two-Way full range Speakers for Stage Monitor with 12" LF and 3" Voice coil or above + 1" exit HF, Power Handling (AES standard) 400W - 600 RMS / 1600W - 2400 Peak, Frequency Response 55Hz-21kHz or better, Average Sensitivity - 95dB/W/m or above, Max SPL 130db peak or above , Nominal Directivity - 80° x 50° or better, Cabinet - 18mm birch plywood	4	94,931	Each	379724
4	Supply, installation, testing & commissioning of Professional Four channel Power amplifier, 4 x 400W @ 8 ohms, 4 x 600W @ 4 ohms, Frequency Responce - 20- 20000Hz or better, Sensitivity - 0.775Vrms Input Impedence - 20K, S/ N ratio - > 110dB or better, Damping Factor - 500 -800, THD - < 0.05% or better , etc complete as required.	1	1,21,871	No.	121871
5	Supply installation testing & commissioning of Professional Class H or Class D Dual Channel channel Power amplifier for Subwoofer 2 x 750W @ 8 ohms, 2 x 1100W @ 4 ohms, Frequency Responce - 20- 20000Hz, Sensitivity - 0.775Vrms Input Impedence - 20K, Crosstalk - >70dB, S/ N ratio - > 108dB, Damping Factor - 500, THD - < 0.1% etc complete as reqd.	2	1,05,194	Nos.	210388

6	SITC of 2000W - 2400W RMS, Nominal impedance 4 ohms, Frequency response- 35-1500Hz or better, Average Sensitivit- 100dB/W/m or above , Maximum Calculated SPL @ 1 m 140dB Peak or above, Nominal Directivity Omidirectional in usable range, Low Frequency driver- Custom made Dual 18" European driver ferrite magnet, 4.5" In or above Voice coil, Connectors- 2x NEUTRIK SpeakonA® NL4MP (1+/1-Input)	2	1,18,023	Nos.	236046
7	Supply installation testing & commissioning of Professional Class H or Class D Dual Channel channel Power amplifier for Subwoofer 2x 1200W @ 8 ohms, 2 x 2000W @ 4 ohms, Frequency Responce - 20- 20000Hz, Sensitivity - 0.775Vrms Input Impedence - 20K, S/ N ratio - > 101dB, Damping Factor - 500, THD - < 0.1% etc complete as reqd.	1	1,41,114	Nos.	141114
8	Supply, installation, Testing and Commissioning of ANALOG MIXER:- 32 Channel Digital Mixer with fader configuration 32+1 , Mixing Capacity - 48 (40 mono + 2 stereo + 2 return), Aux Buses - 20 (8 mono + 6 stereo), Input channel functions - 8 DCA Groups, Inputs - 32 mic/line (XLR/TRS combo) + 2 stereo line (RCA pin) , Output - 16 (XLR), On-board processors - 8 Effects + 10 GEQ, Fader -100 mm motorized, Resolution = 10-bit, +10 dB to -138 dB, -∞ dB all faders , Frequency response - +0.5, -1.5 dB 20 Hz-20 kHz, refer to +4 dBu output @1kHz, INPUT to OMNI OUT, Dynamic range - 110 dB typ., DA Converter, 107 dB typ., INPUT to OMNI OUT, Input Gain=Min. complete etc as reqd.	1	1,73,185	Each	173185
9	Supply, installation, Testing and Commissioning of Digital Controller 4 in x 8 Out Networkable Loudspeaker Management System, High precision 32-bit floating point TEXAS INSTRUMENT DSP (96kHz sampling rate)32-bit D/A converters with 118B dynamic range and audiophile grade preamps, On each output: Routing, Delay, Gain, HPF and LPF filters (up to 48dB/oct), 8 filters (PEQ and Shelving), Compressor / Limiter (Threshold, Attack, Release, Ratio), etc complete as required.	1	1,66,772	Each	166772

10	Supply installation testing & commissioning of High Performance Digital Wireless dual handheld combo microphone system, 200 selectable frequencies, RF Carrier Frequency Range - CH1: 612.000 - 651.600 MHz (100 Selectable Frequencies) CH2: 652.000 - 691.600 MHz (100 Selectable Frequencies), Audio Frequency Range - 30Hz ~ 20 kHz, Signal-to-noise (A-weighted) - 120dB(A) , RF output - 50 mW max, Oscillation Mode - Inside the chip VCO oscillation True Diversity dual receiver, Two receivers in 1U rack mount frame, Two Dynamic wireless handheld transmitter microphones, Long range low power consumption, etc complete as required.	2	44,900	Each	89800
11	Supply installation testing & commissioning of High Performance Digital Wireless dual Lapel combo microphone system, 200 selectable frequencies, RF Carrier Frequency Range - CH1: 612.000 - 651.600 MHz (100 Selectable Frequencies) CH2: 652.000 - 691.600 MHz (100 Selectable Frequencies), Audio Frequency Range - 30Hz ~ 20 kHz, Signal-to-noise (A-weighted) - 120dB(A) , RF output - 50 mW max, Oscillation Mode - Inside the chip VCO oscillation True Diversity dual receiver, Two receivers in 1U rack mount frame, Two Dynamic wireless handheld transmitter microphones, Long range low power consumption, etc complete as required.	2	44,900	Each	89800
12	Supply, installation, Testing and Commissioning of Podium Mic:- 16 - 21" Gooseneck cardioid Microphone, polar pattern cardioid, Frequency Range 70 -18000 Hz, Sensitivity 14mV/Pa, Impedance >600 ohms. complete etc as reqd.	2	24,524	Each	49048
13	Supply, installation, Testing and Commissioning of Wired Vocal Mic:- Dynamic Vocal Microphone, polar pattern cardioid, Frequency Range 60-20000 Hz, Sensitivity 2.3mV/Pa ( -52dBv), MAX SPL - -155dB, Impedance <600 ohms complete etc as reqd.	4	10,994	Each	43976
14	Supply, installation, Testing and Commissioning of Wired Instrument Mic:- Dynamic Instrumental Microphone, polar pattern cardioid, Frequency Range 60-20000 Hz, Sensitivity 2.5mV/Pa ( -54dBv), MAX SPL - -160dB, Impedance <600 ohms complete etc as reqd.	4	11,839	Each	47356
15	Supply, installation, Testing and Commissioning of MX snake cable multi audio balanced OFC 8 pair cable laid in existing conduits.	540	425	Mtr	229500

16	Supply of Mic Stand:- Floor Mic Stand, Base Dia: 230 mm	4	5,074	Each	20296
17	Supply of Mic Stand:- Table top Mic Stand, Base Dia: 150 mm	4	3,392	Each	13568
18	Supplying and laying of one number double PVC insulated and PVC sheathed / XLPE copper conductor armoured power cable of 1.1 KV grade of 4x16 sqmm size i/c laying on existing surface / in pipe as required.	150	1,497	Mtr	224550
			<b>TOTAL</b>		<b>3058022</b>
<b>Sub Head-II:- Credit back of dismantled material</b>					
20	Credit back of the existing dismantled AV system is as where and taking out from the campus after getting gate pass from the Engineer-In-Charge	1	-4,50,000	Job	-450000
<b>Total</b>					<b>-4,50,000</b>
<b>Sub Head-III:- Comprehensive maintenance of Audio</b>					
21	Comprehensive maintenance of audio system which include maintenance for under mentioned period i/c replacement/repair of worn- out items with minimum downtime, warranty and guarantee of repaired/ replacement after completion of three liability period- One Job. year guarantee defect				
21.01	For 1st Year	1	Free of cost		0
21.02	For 2nd Year 1.0% of E.C	1	30580.00	Per Year	30580
21.03	For 3rd Year 2.0% of E.C	1	61160.00	Per Year	61160
21.04	For 4th Year 3.0% of E.C	1	91741.00	Per Year	91741
21.05	For 5th Year 4.5% of E.C	1	137611.00	Per Year	137611
21.06	For 6th Year 5.5 % of E.C	1	170026.00	Per Year	170026
<b>Total</b>					<b>4,91,118</b>
<b>Sub Head-IV:-Operation of Audio &amp; Video</b>					
21	Providing services for operation of the AV systems in, six days a week The timing can be changed as per the requirement of the department or direction of engineer in charge. Job is not limited to operation of AV only, it also include the following work: Operators will prepare the system on & ready for use by the teachers and students also includes to keep all AV equipments up & running, regular maintenance, software/firmware upgrade etc.				
22.01	For AV operator	5	358078	Years	1790390
<b>Grand Total</b>					<b>48,89,530</b>

