



National Power Training Institute

An ISO 9001: 2000 & ISO 14001: 2004 Organization
(Ministry of Power, Govt. of India)

TENDER DOCUMENT

UPGRADATION OF PUBLIC ADDRESS SYSTEM IN AUDITORIUM
AT NPTI (CO), FARIDABAD

Tender Enquiry No. : NPTI/CO/Purch/TE-34/Audio System/2015

Dated:-

NPTI Complex, Sector-33, Faridabad – 121 003
Phone No. 0129-2275448
Fax No. 0129-2277412
Website: www.npti.in

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**SECTION-1
LETTER OF INVITATION**

LETTER OF INVITATION

Tender Enquiry No. : NPTI/CO/Purch/TE-34/Sound System/2015

Dated:-

To

**Subject: - Upgradation of Public Address System in Auditorium at NPTI (CO),
Faridabad –reg.**

Dear Sir,

1. National Power Training Institute, (hereinafter called "NPTI"), is a National Apex Body of the Govt. of India, Ministry of Power. NPTI invites Bid for Upgradation of Public Address System in Auditorium at NPTI (CO), Faridabad (Haryana).
2. The Tender Documents include the following:
 1. Section 1 - Letter of Invitation
 2. Section 2 - Notice Inviting Tender
 3. Section 3 - Instruction to Bidders
 4. Section 4 - Conditions of Contract
 5. Section 5 - Scope of Work
 6. Section 6 - Pre-qualification Bid
 7. Section 7 - Financial Bid
3. The Bid shall be received in NPTI (Corporate Office), Faridabad, up to 2.30 PM on 24.07.2015 and shall be opened on the same day at 3.00 PM in the presence of bidders, who choose to be present.

Thanking You

Yours faithfully

(S.N. Pandey)
A.P. (Purchase)
Tele Fax No: 0129-2275448
E-mail: snpandey@npti.in

SECTION-2
NOTICE INVITING TENDER

NATIONAL POWER TRAINING INSTITUTE
(Ministry of Power, Govt. of India)
NPTI Complex, Sector-33, Faridabad – 121 003
Tele Fax No. 0129-2275448
Website: www.npti.in

DOMESTIC COMPETITIVE BIDDING
(Through call of open Tenders)

TENDER ENQUIRY NO. NPTI/CO/Purch/TE-34/Audio System/2015

Dated:

Name of Work	Upgradation of Public Address System in Auditorium at NPTI (CO), Faridabad
Estimated Value of Work	₹ 15 Lakhs
EMD	₹ 30000/-
Date of Issue of Tender Document	30.06.2015
Last Date & Time for receipt of Bid	24.07.2015 up to 2.30 PM
Time and Date of Opening of Bid	24.07.2015 at 3.00 PM
Place of Opening of Bid	NPTI (CO), Faridabad
Officers from whom the tender documents can be obtained	A.P. (Purchase), NPTI, Faridabad
To whom the tender documents can be submitted.	Bids shall be sent to A.P. (Purchase) NPTI (CO), Faridabad or to be dropped in Tender Box kept in the office of Dy. Director (Admn) of NPTI (CO), Sector-33, Faridabad within due date and time
Cost of Bid Document	Rs. 500/- (non refundable)
Tenders addressed to	A.P. (Purchase), NPTI, Sector – 33, Faridabad.

Note:

- 1(a) The bid documents can be obtained from A.P. (Purchase), NPTI (Corporate Office), Faridabad from 30.06.2015 to 24.07.2015 on working days on payment of Rs. 500/- towards the cost of bid documents, payable through Demand Draft/Bankers Cheque or by Cash deposited to Accounts Section.
- 1(b) The bid documents can be downloaded from NPTI's website www.npti.in and www.tenders.gov.in / www.eprocure.gov.in and in such case, the bidder should enclose Demand Draft / Bankers cheque amounting to ₹ 500/- (Five hundred only) towards cost of bid documents and submit the same along with EMD in the envelope superscribed as "Pre-Qualification Bid".

1(c) The Demand Draft / Bankers Cheque is to be drawn in favour of National Power Training Institute, payable at Faridabad

(S.N. Pandey)
A.P. (Purchase)
National Power Training Institute (CO)
Sector- 33, Faridabad
Haryana-121003

**SECTION-3
INSTRUCTION TO BIDDERS**

INSTRUCTION TO BIDDERS

- 1.0** National Power Training Institute (NPTI) is an autonomous institute under Ministry of Power, Govt. of India, and is National Apex Body for Human Resource Development in Power Sector. NPTI invites 'Sealed Bids' for Upgradation of Public Address System in Auditorium at NPTI (CO), Faridabad.
- 2.0** The bids are to be submitted in two parts - one sealed envelope superscribed as '**Pre-qualification bid**' giving details in the format given as per **Section – 6** and the second sealed envelope superscribed as '**Financial Bid**' in the format given at **Section - 7**. The two sealed envelopes as above will be placed in another sealed envelope superscribed as '**Bid for Upgradation of Public Address System in Auditorium at NPTI (CO), Faridabad**' and **not to be opened before 3.00 PM on 24.07.2015**. The bid shall be signed by a person duly authorized on behalf of the Contract Agencies and shall be dropped in the Tender Box placed at NPTI Office premises at NPTI Complex, Sector-33, Faridabad-121003, Haryana.
- 3.0** The sealed proposal shall be received by NPTI up to the due date given and any proposal received after the prescribed deadline shall not be considered. The Pre-qualification proposal will be opened on the same date in the presence of the representatives of the firms present. **Date of opening of financial proposal of such firms who meets the prescribed Pre-qualification criteria will be notified separately.**
- 4.0** ₹30000/- (**Rupees Thirty Thousand Only**) as earnest money should accompany in the form of bank draft / banker's cheque in favour of NPTI payable on any scheduled bank payable at Faridabad along with Pre-qualification bid.
- 5.0** Bids not accompanied with the requisite amount of EMD shall not be considered and price bid of such bidders shall not be opened.
- 6.0** No interest shall be payable by NPTI on EMD.
- 6.1** The EMD shall be forfeited:
- 6.2** If the bidder withdraws his bid during the period of bid validity.
- 6.3** In the case of successful bidder, if he fails to furnish the required Performance Guarantee within the specified time limit.
- 7.0** EMDs of all the bidders shall be returned after finalization of contract. NPTI reserves the right, without prejudice to any other remedies, to reject the bid forthwith if the bidder has engaged in corrupt or fraudulent practices or is found to have misrepresented the facts or has provided false information/documentation.

- 8.0** Bidders are requested to carefully study the requirements and visit the site before submitting the bids.
- 9.0** The complete supply and installation shall be executed within one month from the date of Letter of Award from NPTI.
- 10.0** Postal delay or loss of bid in transit will not be responsibility of this office.
- 11.0** The lowest bidder shall not have any right for award of the order. NPTI reserves the right of awarding the order to any of the firm keeping their merits/demerits in mind.

12.0 Warranty

- 12.0.1** The warranty of the Item supplied shall be indicated as per manufactures warranty norms and warranty card should be provided along with the item supplied.
- 12.0.2** Comprehensive Annual Maintenance Contract upto 02 years excluding warranty period.
- 13.0** NPTI reserves the right to accept/reject any or all the offers/bids without assigning any reason thereof.
- 14.0** Bids shall be valid for acceptance for a period of 180 days from the date of opening.
- 15.0** NPTI is not responsible for any postal delay in receipt of the application. Receipt of tender documents etc. It is the responsibility of tenderer to make sure that the tender is received in time.

16.0 CONCILIATION/ ARBITRATION

- 16.1** If any dispute (s) or difference (s) of any kind whatsoever arise between the Parties, the parties hereto shall negotiate with a view to its amicable resolution and settlement through a committee appointed by Director General, NPTI.
- 16.2** In the event no amicable resolution or settlement is reached between the parties within 30 days after receipt of notice by one party, then the disputes or differences are detailed above shall be referred to and settled as per Arbitration and Conciliation Act, 1996 and Laws of India as amended or enacted from time to time.
- 16.3** The venue of the arbitration shall be Faridabad, India. The fee & other charges of Arbitrator shall be determined by the arbitrator in terms of the Act and shall be shared equally between the parties.
- 16.4** The arbitrator will give the speaking and the reasoned Award.

17.0 FORCE MAJEURE

The terms and conditions mentioned in this inquiry letter shall be subject to Force Majeure which mean and shall include the following –

- i) Any war or hostilities
- ii) Any riot or civil commotion
- iii) Any earthquake, flood, tempest, lighting or other natural physical disaster impossibility of the use of any Railway, Post, Airport, Shipping services or other means of transport.
- iv) Any strike or lockout (only those exceeding 10 continuous days in duration) affecting the performance of contractor's / NPTI obligation.

18.0 TERMS OF PAYMENT

Bill in duplicate may be submitted to Director (Projects) for payment and 95% payment will be made within one month after supply and installation of the item satisfactorily. Balance 5% payment will be released on successful completion of 2 years of AMC period after warranty period.

19.0 AWARD OF CONTRACT

The bids will be first evaluated on the parameters indicated in QR as per details given at **Section-6**. Financial bids of such bidders who meet the qualifying requirements shall be opened. The Letter of Award shall be issued to technically and commercially responsive lowest evaluated bidder.

20.0 QUALIFYING REQUIREMENTS FOR BIDDERS

Sr. No	Description	Documents to be attached
1.	The Agency should have Income Tax PAN No.	Attach copy of PAN card
2.	The firm/agency should be registered with Service Tax Department	Attach copy of Registration certificate
3.	The firm/agency must have TIN No. in their name	Attach copy of Registration certificate
4.	<p>The bidder must have successfully completed similar works/services during last three years ending 31st May 2015 with either of the following:</p> <p>a. Three similar completed works costing not less than the amount equal to 40% of the Annual estimated cost.</p> <p style="text-align: center;">or</p> <p>b. Two similar completed works costing not less than the amount equal to 50% of the Annual</p>	Attach copy of Work Order and Bill / Completion Certificate

	<p>estimated cost.</p> <p style="text-align: center;">or</p> <p>c. One similar completed work costing not less than the amount equal to 80% of the Annual estimated cost.</p>	
5.	<p>The Average Annual Financial turnover during the last 3 years, ending 31st March, 2015 should be at least 30% of the estimated cost.</p> <p>(Please enclosed copies of audited balance sheet)</p>	<p>(Attach Copy of Audited Balance Sheet)</p>

ADDRESS FOR SUBMISSION OF BID;

(S.N. Pandey)

A.P. (Purchase)

NATIONAL POWER TRAINING INSTITUTE

NPTI Complex, Sector –33, Faridabad – 121 003

INDIA Telefax: 0129-2275448

SECTION-4
CONDITIONS OF CONTRACT

CONDITIONS OF CONTRACT

1.0 EVALUATION OF BIDS

- 1.1** National Power Training Institute will determine the substantial responsiveness of each bid with reference to bid terms and conditions. For this purpose a substantially responsive bid is one, which conforms to all the terms and conditions of the bid documents without material deviations.
- 1.2** NPTI's determination of bidder's responsiveness will be on the basis of contents of the bid itself without recourse to extrinsic evidence. If a bid is not substantially responsive, it would be liable to be rejected and may not substantially be made responsive by the bidder by correction of the non-conformity. All decisions by NPTI on the evaluation of bids will be final and binding on the Bidders and is not subject to any scrutiny.

2.0 TERMINATION OF CONTRACT

NPTI reserves the right for termination of the contract if the contractor fails to supply and install the material as per schedule and NPTI also has the right to award the contract to any other agency.

3.0 RATES AND PRICES

- 3.1** Bidders should quote the rates in the format given at Section-7. Incomplete bids will summarily be rejected. All corrections and alterations in the entries of tender papers will be signed in full by the Bidder with date. No erasing or over-writings are permissible.
- 3.2** The rates have to be quoted both in figure and in words, in case if there is any ambiguity the rate in words will be considered.
- 3.3** No additional freight or any other charges, etc. would be payable.
- 3.4** In case of variation in quoted rate per unit & total cost of any item, the figure indicated in rate/unit column will be considered.
- 3.5** Service tax as applicable will be paid extra as per on actual basis.
- 3.6** All statutory duties and taxes (including excise and customs) VAT and other may be clearly specified. Price quoted shall be firm and any variation in rates, prices or terms during validity of the offer shall require forfeiture of the EMD.

4.0 APPLICABLE LAW AND JURISDICTION

- 4.1** All matters connected with this shall be governed by the Indian law both substantive and procedural, for the time being in force and shall be subject to the exclusive jurisdiction of Indian Courts at Faridabad (Haryana).

- 4.2** No alternative offer shall be considered.
- 4.3** NPTI reserves the right to annul the bidding process at any time prior to award of contract including rejection of any or all bids after the same have been received, without thereby incurring any liability to the affected bidder or any obligation to inform the affected bidder/s on the ground of NPTI's action.
- 4.4** NPTI reserves the right to accept/reject any bid and to cancel the bidding process at any time and reject all bids, at any time prior to placement of order, without thereby incurring any liability.

**SECTION-5
SCOPE OF WORK**

JOB SPECIFICATION AND SCOPE OF WORK

The existing Public Address System in the auditorium consists of a mixer console amplifier, double cassette deck, collar microphones, cordless microphones, cable connections with mike points on stage / dias, concealed speakers, have been provided by CPWD at the time of construction of the auditorium about 13 years ago. The scope of work includes upgradation of existing PA system of the Auditorium along with new cabling and comprehensive Annual Maintenance Contract up to 03 years including guarantee period.

Items of approved make like Electrovoice, Ahuja, StudioMaster, JBL & Bosch required for Upgradation of Audio System of Auditorium at NPTI Faridabad

1. Professional Speakers (Main Speakers)

500 Watts or Higher Minimum 15 Inch Two Way Professional Speakers with Power Handling of Continuous 500 Watts and Peak 2400 Watts having Pole Mount Facility thru Integrated Threaded Points for Suspension Frequency between -3db to 10 db , Crossover Frequency of Minimum 1500 Hz or Higher, Maximum Peak Output 137db SPL

Quantity: 04 Nos.

2. Wall Mount Speakers 40W each for Control Room and Green Room

Quantity: 04 Nos.

3. Subwoofer

400 Watt or Higher with Minimum 18 Inch Professional Woofers with Power Rating of 1500 Watts and Peak Output of 3000 Watts

Quantity: 02 Nos.

4. Stage Monitoring Speakers

Power output of 275W (RMS) / 550W Peak Two way 15" Professional active speaker with built-in chip limiter with LCD Display.

Quantity: 02 Nos.

5. Professional Power Amplifiers

- a. 2x2600 Watts - Quantity 01 No
- b. 2x1600 Watts - Quantity 02 Nos.
- c. 200 Watts - Quantity 01 No

(For main speakers, subwoofers, Monitoring Speakers and Control Room, Green room Speakers)

With built in protection such as Audio Limiters, Temperature, DC, HF Short Circuit, Peak Current Limiters 2 Stage Fans from Front to Rear for Cooling.

Quantity: 04 Nos.

6. Mixer (Minimum 16 Channel)

16 Mike / Line Input Channels Higher with 3 band graphic equalizer Frequency Response of Minimum 15Hz to 55 KHz , Crosstalk Minimum in Fader and AUX >85db , in Channel to Channel >80db and Mike Input >80db , Input Sensitivity with Mike Input -74 dbu and with Line Input Mono -54 dbu.

Quantity: 01 No

7. Gooseneck Mike for Podium

High quality professional 21" microphone (Cardioid condenser) with anti-mobile and RF interference Technology

Quantity: 02 Nos.

8. General Purpose Mike

Dynamic cardioids Polar pattern Uni-directional Frequency range 80 Hz to 12 kHz, Sensitivity 1.7 mV/Pa \pm 3 dB

Rated output impedance 600 ohms

- a) Singing Mike – 04 Nos.
- b) Instrumental Mike – 04 Nos.

9. Wireless Microphone System (Hand held)

Receiver with Minimum 100 UHF selectable Channels and Frequency Range Support of 740-790Mhz, Polar Patterned-Cardioid, Clear LCD Display, easy set-up with Infra Red, LCD Display, easy set-up with Infra Red, supplied with receiver 240 VAC 50 Hz adaptor and complete with necessary accessories.

Quantity: 03 Nos.

10. Wireless Microphone system(collar mikes)

UHF band frequency Microphone System with 100 selectable channels, easy set-up with Infra-Red, Clear LCD display, suitable high quality head sets, Polar Pattern Cardioid Lapel mike with operating frequency range 740-790 MHz, Receiver – 240 VAC 50 Hz for AC adaptor.

Quantity: 03 Nos.

11. **Two way / Three way Stereo Crossover**
Crossover Limit with 2 way / 3 way Stereo selectivity switch, separate subwoofer out with Master rotary control and switchable frequency 70 HZ-1KHz and 910 HZ-8KHZ

Quantity: 01 No
12. **Metallic Rack:**

Equipment Rack with locking facility, mixer mounting facility with good quality Dust cover

Quantity: 01 No
13. Mike Points for Inserting Mikes at Different Stage Locations

Quantity: 10 Nos.
14. LS Cable 2.5 sq mm 2 Core ATC Speaker cable

Quantity: Approx 200 mtrs or actual length used
15. Mike Cables: To be prepared – No. of Points x 2 sets – 2 core digital mike cable

Quantity: 200 mtrs or actual length used
16. 25mm PVC conduct to ray the cables from Audio Control Room to dias and speaker points-through false sealing and wall panels.

Quantity: Approx 225 mtrs. or actual length used
17. Interfacing cable / connectors

Quantity: One lot
18. Installation, Testing & Commissioning Charges

Lumpsum
19. Complete training shall be given after installation and commissioning for atleast 2 persons in respect of installed equipment, accessories, connections, operation etc.
20. The scope of work shall also include dismantling of old PA system and installation of any other item which is not specifically included in technical specification / Bill of material but essential for completion of work. Such item should be supplied & installed without any extra cost to purchaser. However bidder shall provide the list of such item which shall be supplied & installed.
21. Notwithstanding whatever item and quality is indicated by the bidder in this list, in case more items or more quantity is required to be supplied for completion of work no extra payment should be made to the bidders.

Bidders should visit the site and also give rates for the old equipments which will be deducted from the final quoted price.

SECTION-6
PRE-QUALIFICATION BID
(CONTENTS OF ENVELOPE - 1)

BID SUBMISSION FORM

Ref. No
From: [Name, address and telephone nos. of the bidder]

Dated:

To,
A.P. (Purchase)
NPTI, Corporate Office
Sector – 33, Faridabad
Haryana.

Subject: Submission of Pre-qualification Bid for Upgradation of Public Address System in Auditorium at NPTI (CO), Sector – 33, Faridabad – reg.

Dear Sir,

We, the undersigned, offer to provide the services in accordance with terms & conditions of Tender enquiry No. NPTI/CO/Purch/TE-34/Audio System/2015. We are hereby submitting our bid.

We hereby declare that all the information and statements made in this bid are true and accept that any misinterpretation contained in it may lead to our disqualification.

The prices quoted by us are valid till six months from the date of submission of the quotation. We confirm that this bid will remain binding upon us and may be accepted by you at any time before the expiry date.

Prices have been arrived independently without consultation, communication, agreement or understanding (for the purpose of restricting competition) with any competitor.

We agree to bear all costs incurred by us in connection with the preparation and submission of the bid and to bear any further pre-contract costs.

We understand NPTI is not bound to accept the lowest or any bid or to give any reason for award, or for the rejection of any proposal.

I confirm that I have authority of [Insert Name of the Printer] to submit the bid on its behalf.

Yours sincerely

Authorized Signature [*In full and initials*]:

Name and Title of Signatory:

Name of Bidder:

Address:

Telephone (Office):

Telephone (Mobile):

Fax:

Email:

GENERAL PARTICULARS/ DETAILS OF THE FIRM

Sr. No.	Particulars	Details to be filled up by the Bidder
1.	Name of Agency	
2.	Name of contact person of the Agency	
3.	Designation of the contact person of the Agency	
4.	Contact details of contact person of the Agency	
	(i). Mobile Number	
	(ii). Landline Number	
	(iii). Fax Number	
	(iv). Email Address	
5.	Details of EMD / BG	
	i) DD / BG No.	
	ii) Amount in Rs.	
	iii) Name of the issuing Bank	
6.	Details of Cost of Bid Document	
	i) DD / Cash receipt No.	
	ii) Amount in Rs.	
	iii) Name of the issuing Bank (in case of DD)	

Signature with stamp _____

Date _____

Full Name _____

Address _____

QUALIFYING REQUIREMENTS

S. No.	Particulars	Enclose the necessary documents as proof, also specify item no./ pg. no. of technical bid where attached
1.	The Agency should have Income Tax PAN No.	PAN No _____ (Copy of certificate attached Yes/No)
2.	The firm/agency should be registered with Service Tax Department	S.T Reg. No _____ (Copy of certificate attached Yes/No)
3.	The firm/agency must have TIN No. in their name	TIN Reg. No _____ (Copy of certificate attached Yes/No)
4.	<p>The bidder must have successfully completed similar works/services during last three years ending 31st May 2015 with either of the following:</p> <p>a. Three similar completed works costing not less than the amount equal to 40% of the Annual estimated cost.</p> <p style="text-align: center;">or</p> <p>b. Two similar completed works costing not less than the amount equal to 50% of the Annual estimated cost.</p> <p style="text-align: center;">or</p> <p>c. One similar completed work costing not less than the amount equal to 80% of the Annual estimated cost.</p>	Attach copy of Work Order and Bill / Completion Certificate

Signature with stamp _____

Date _____

Full Name _____

Address _____

5.	<p>The Average Annual Financial turnover during the last 3 years, ending 31st March, 2015 should be at least 30% of the estimated cost.</p> <p>(Please enclosed copies of audited balance sheet)</p>	<p>(Attach Copy of Audited Balance Sheet)</p>
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Signature with stamp _____

Date _____

Full Name _____

Address _____

Note: - Bidders not submitting the above information / documents at first instance run the risk of rejection.

Experience of similar nature work in the field during last three Financial years						
Sr. No.	Name of work	Name of the client	Cost (in Rs.) Lakh	Date of commencement	Date of completion	Remarks

Signature with stamp _____

Date _____

Full Name _____

Address _____

Note: - Bidders not submitting the above information / documents at first instance run the risk of rejection.

SECTION-7
FINANCIAL BID
(Contents of Envelope -2)

BID SUBMISSION FORM

Ref. No
From: [Name, address and telephone nos. of the bidder]

Dated:

To,
A.P. (Purchase)
NPTI, Corporate Office
Sector – 33, Faridabad
Haryana.

Subject: Submission of Financial Bid for Upgradation of Public Address System in Auditorium at NPTI (CO), Sector – 33, Faridabad –reg.

Dear Sir,

We, the undersigned, offer to provide the services in accordance with terms & conditions of Tender enquiry No. NPTI/CO/Purch/TE-34/Audio System/2015. We are hereby submitting our bid.

We hereby declare that all the information and statements made in this bid are true and accept that any misinterpretation contained in it may lead to our disqualification.

The prices quoted by us are valid till six months from the date of submission of the quotation. We confirm that this bid will remain binding upon us and may be accepted by you at any time before the expiry date.

Prices have been arrived independently without consultation, communication, agreement or understanding (for the purpose of restricting competition) with any competitor.

We agree to bear all costs incurred by us in connection with the preparation and submission of the bid and to bear any further pre-contract costs.

We understand NPTI is not bound to accept the lowest or any bid or to give any reason for award, or for the rejection of any proposal.

I confirm that I have authority of [Insert Name of the Printer] to submit the bid on its behalf.

Yours sincerely

Authorized Signature [*In full and initials*]:

Name and Title of Signatory:

Name of Bidder:

Address:

Telephone (Office):

Telephone (Mobile):

Fax:

Email:

FINANCIAL BID

Bill of quantity

S. No.	DESCRIPTION	QTY	Rate (in ₹)	Total Amount (in ₹)
1.	<p><u>Professional Speakers (Main Speakers)</u></p> <p>500 Watts or Higher Minimum 15 Inch Two Way Professional Speakers with Power Handling of Continous 500 Watts and Peak 2400 Watts having Pole Mount Facility thru Integrated Threaded Points for Suspension Frequency between -3db to 10 db , Crossover Frequency of Minimum 1500 Hz or Higher, Maximum Peak Output 137db SPL</p>	04 Nos.		
2.	<p>Wall Mount Speakers 40W each for Control Room and Green Room</p>	04 Nos.		
3.	<p>Subwoofer</p> <p>400 Watt or Higher with Minimum 18 Inch Professional Woofers with Power Rating of 1500 Watts and Peak Output of 3000 Watts</p>	02 Nos.		
4.	<p>Stage Monitoring Speakers</p> <p>Power output of 275W (RMS) / 550W Peak Two way 15" Professional active speaker with built-in chip limiter with LCD Display.</p>	02 Nos.		
5.	<p>Professional Power Amplifier</p> <p>a. 2x2600 Watts - Quantity 01 No b. 2x1600 Watts - Quantity 02 Nos. c. 200 Watts - Quantity 01 No</p> <p>(For main speakers, subwoofers, Monitoring Speakers and Control Room, Green room Speakers)</p> <p>With built in protection such as Audio Limiters, Temperature, DC, HF Short Circuit, Peak Current Limiters 2 Stage Fans from Front to Rear for Cooling.</p>	04 No.		

6.	Mixer (Minimum 16 Channel) 16 Mike / Line Input Channels Higher with 3 band graphic equalizer Frequency Response of Minimum 15Hz to 55 KHz , Crosstalk Minimum in Fader and AUX >85db , in Channel to Channel >80db and Mike Input >80db , Input Sensitivity with Mike Input -74 dbu and with Line Input Mono -54 dbu.	01 No.		
7.	Gooseneck Mike for Podium High quality professional 21” microphone (Cardioid condenser) with anti-mobile and RF interference Technology	02 No.		
8.	<u>General Purpose Mike</u> Dynamic cardioids Polar pattern Uni-directional Frequency range 80 Hz to 12 kHz, Sensitivity 1.7 mV/Pa ± 3 dB Rated output impedance 600 ohms a) Singing Mike b) Instrumental Mike	04 Nos. 04 Nos.		
9.	<u>Wireless Microphone System (Hand held)</u> Receiver with Minimum 100 UHF selectable Channels and Frequency Range Support of 740-790Mhz, Polar Patterned-Cardioid, Clear LCD Display, easy set-up with Infra Red, LCD Display, easy set-up with Infra Red, supplied with receiver 240 VAC 50 Hz adaptor and complete with necessary accessories.	03 Nos.		
10.	<u>Wireless Microphone system(collar mikes)</u> UHF band frequency Microphone System with 100 selectable channels, easy set-up with Infra-Red, Clear LCD display, suitable high quality head sets, Polar Pattern Cardioid Lapel mike with operating frequency range 740-790 MHz, Receiver – 240 VAC 50 Hz for AC adaptor.	03 Nos.		
11.	<u>Two way / Three way Stereo Crossover</u> Crossover Limit with 2 way / 3 way Stereo	01 No		

	selectivity switch, separate subwoofer out with Master rotary control and switchable frequency 70 HZ-1KHz and 910 HZ-8KHZ			
12.	Metallic Rack Equipment Rack with locking facility, mixer mounting facility with good quality Dust cover	01 NO		
13.	Mike Points for Inserting Mikes at Different Stage Locations	10 Nos.		
14.	LS Cable 2.5 sq mm 2 Core ATC Speaker cable	Approx 200 mtrs or actual length used	per metre	
15.	Mike Cables: To be prepared – No. of Points x 2 sets – 2 core digital mike cable	Approx 200 mtrs or actual length used	per metre	
16.	25mm PVC conduit to lay the cables from Audio Control Room to dias and speaker points-through false sealing and wall panels.	Approx 225 mtrs. or actual length used	per metre	
17.	Interfacing cable / connectors	One lot		
18.	Installation, Testing & Commissioning Charges	Lumpsum		
Total (in ₹)				
Less Price for old equipments (in ₹)				
Total Amount after deduction of price of old equipment (in ₹)				
Taxes (if any)				
Grand Total (in ₹)				

Grand Total in Words: _____

Signature of Authorized person: _____

Name: _____

Designation: _____

Seal: _____

Note: Rates of each items to be quoted including provision of Comprehensive Annual Maintenance Contract for 3 years period. 5% of the bill value will be deducted initially and to be released on successful completion of 2 years of AMC period after warranty period.