



**INDIAN INSTITUTE OF MANAGEMENT, LUCKNOW**  
Prabandh Nagar, IIM Road, Lucknow – 226013

Website: [www.iiml.ac.in](http://www.iiml.ac.in)

Email id: [purchase@iiml.ac.in](mailto:purchase@iiml.ac.in)

**NOTICE INVITING TENDER**

**NIT NO. IIML/PUR/PGP/05/2022-23**

**DATED – 08/06/2022**

Indian Institute of Management, Lucknow, an autonomous body, under the Ministry of Human Resources Development, Government of India invites online E-tenders in Two-Bid Systems (i.e. Technical Bid & Financial Bid) for supply, installation, testing & commissioning (SITC) of equipment for Audio System for IIM Lucknow from eligible Vendors/Firms/Agencies. A free view of NIT is available on Govt. E-Procurement portal i.e. <https://www.eprocure.gov.in> and on Institute website [www.iiml.ac.in](http://www.iiml.ac.in). Interested Firm/agencies are requested to sign-in (new user sign-in only with DSC) online to obtain user-ID and password using Digital Signature. The tender documents comprise of Technical bid and Financial bid. It is requested to download the Tender on acceptance of terms & conditions. The technical bid and price bid duly filled have to be uploaded on the e-Procurement Portal of Government of India i.e. <https://eprocure.gov.in> using Digital Signature before the last date & time for submission as mentioned in the tender notice. The credentials as listed below shall be uploaded online.

**A. BID INFORMATION SHEET**

Document Description	<b>Tender for supply, installation, testing &amp; commissioning (SITC) of equipment for Audio System for IIM Lucknow with 3 years onsite comprehensive warranty”</b>
Estimated Tender Value	<b>4,75,000/-</b>
Earnest Money Deposit (in Rs.)	<b>Rs. 10,000/-</b>
Last date & Time of Submission of Response to Tender Document	<b>15<sup>th</sup> June 2022 upto 2:00 PM</b>
Bid Opening (Venue, Date & Time)	Meeting Room (1 <sup>st</sup> Floor), Samadhan Building, IIM Lucknow, Prabandh Nagar, IIM Road, Lucknow – 226013 On <b>16<sup>th</sup> June 2022</b> at 03:00 pm
Bid Validity	120 days from the date of opening of bids.
Tender issuing authority	<b>Chief Administrative Officer Indian Institute of Management Lucknow Prabandh Nagar, IIM Road , Lucknow – 226013 , Phone : 0522 – 6696917/6929</b>

**-s/d-**  
**Chief Administrative Officer**  
**Indian Institute of Manager Lucknow**

**TENDER FOR SUPPLY, INSTALLATION, TESTING & COMMISSIONING (SITC) OF  
EQUIPMENT FOR AUDIO SYSTEM FOR IIM Lucknow WITH 3 YEARS ONSITE  
COMPREHENSIVE WARRANTY**

**B. SCOPE OF WORK:** The successful bidder/contractor will be required to supply, install, test, commission the equipment for the audio system in 2 classrooms at IIM Lucknow with 3 years onsite warranty on the entire setup from date of handing over. The details of equipment is provided in Annexure-C. The SITC shall be completed within one week from date of issue of the work order, failing which a penalty for delay will be imposed.

1. Cables and connectors (required if any) should be compatible with the proposed solution with 3 years warranty with the solution proposed by the vendor. In additions to this, if any other product is required for integration of the above & existing equipment, the successful bidder has to supply the same without any additional cost.
2. The successful bidder / contractor has to ensure the smooth installation of the equipment at our sites (Lucknow campus) and has to supply all necessary products, carry out integration and installation without any additional cost.
3. The cost towards cables and connectors required for interconnection/ integration of the supplied equipment and the existing items, shall be included in the BOQ.
4. All the work related to the proper installation, functioning & integration of the systems shall be carried out by the contractor. Before handing over the final product i.e. integration of all equipment supplied against this tender, Transportation, Storage, safety and security of the supplied material, issuance of road permit etc. shall be the sole responsibility of the contractor.
5. Comprehensive warrantee will include rectification / replacement of all the defective components/ items during warrantee period. All the arrangements for keeping the configured all the classroom equipment functional shall be sole responsibility of the contractor.
6. After completion of the proposed work, clearances of all temporary work / materials shall be the sole responsibility of the contractor and this shall be removed immediately after the completion of the work is completed.
7. All the non-functional parts/materials/ items/ replaced during the comprehensive warranty/ maintenance period shall be the property of the contractor.
8. After proper installation, testing and integration, the commissioning of the system shall be carried out by the contractor in presence of the concerned officer.

**C. ELIGIBILITY CRITERIA**

**The eligible bidders must fulfill the following criteria / conditions and submit documentary evidence in support of the same:**

1. The bidder must be an authorized dealer /agent of the offered brand. (Upload authorization letter)
2. Registration Number of the bidder firm along with the GST No. and the PAN number allotted by the concerned authorities. (scanned copy shall be uploaded with the technical bid)
3. The bidder should have a minimum average turnover of 40% of the estimated tender value during last three financial years (2020-21, 2019-20 and 2018-19) and shall upload Balance sheet or CA certificate in support.

4. The bidder should have supplied & installed such system (audio system) in last 3 years (cutoff date: last date for submission of bids) and the order value shall meet one of the following conditions:
  - (a) One order of not less than 80% of the estimated tender value
  - (b) Two orders of not less than 60% of the estimated tender value
  - (c) Three orders of not less than 40% of the estimated tender value
- 5.

#### **D. DISQUALIFICATION**

The proposal is liable to be disqualified in the following cases:

1. Proposal not submitted in accordance with this document
2. During validity of the proposal, or its extended period, if any, the bidder increases his quoted prices.
3. Proposal is received in incomplete format.
4. Proposal is received after due date and time.
5. Proposal is not accompanied by all requisite documents.
6. Information submitted in the tender proposal is found to be misrepresented, incorrect or false, accidentally, unwittingly or otherwise, at any time during the processing of the contract (no matter at what stage) or during the tenure of the contract including the extension period if any.

#### **E. GUIDE LINES FOR BIDDERS**

1. Definitions
  - a) The "IIM Lucknow" means Indian Institute of Management Lucknow.
  - b) "Bidder" means the individual or agency who participates in this tender and submits its bid. Work Order means the order placed after issue of letter of intent by the IIML to the agency signed.
  - c) "Successful bidder" means the bidder whom the contract is awarded.
  - d) The Contract Price means consideration payable to the agency under the work order for the full and proper performance of its contractual obligations.
2. IIM Lucknow invites the quotations in two-bid system (Technical and Financial) for supply, installation, testing and commissioning (SITC) of Equipment for Audio System for 02 classrooms at IIM Lucknow.
3. The Bidders who have downloaded the tender from the CPPP portal shall not tamper/modify the tender form including downloaded price bid template in any manner. In case if the same is found to be tampered/modified in any manner, tender will be completely rejected and EMD would be forfeited.
4. Bidders are advised to visit website **<http://eprocure.gov.in>** regularly till closing date for submission of tender for any Corrigendum/Addendum/Amendment.
5. The details of terms and conditions are being given in the Tender document. The bidder has to fill all necessary details as per tender document and enclose documents in support of his claims.
6. All filled bids are to be uploaded on the above website on or before the date & time mentioned above. Manual bids will not be accepted.
7. Only those bidders, whose technical bids are complete in all respects, will be considered for evaluation. Financial Bids of only those bidders will be opened, whose technical bids qualify as per evaluation criteria prescribed by IIM Lucknow.

8. Bidders are required to deposit the amount mentioned on first page towards Earnest Money Deposit (EMD) to below mentioned bank account of Institute on or before the last date & time mentioned above. EMD through any other form will not be accepted. UTR number / Transaction ID and date of Deposit/Transfer of EMD shall be mentioned in Technical Bid at appropriate place. NSIC / MSME registered firms are exempted from submission of EMD on uploading of valid MSME certificate.

Bank Account No.	07231450000294
IFSC Code	HDFC0000723
Name of Bank & Type of Account	HDFC/Savings

EMD of all unsuccessful bidders will be returned after finalization of the tender. EMD of the successful bidder will be returned only after receipt of Security Deposit towards Performance Security Deposit.

9. **Performance Security:** The successful bidder will deposit performance security deposit @ 10% of award of work order amount within 07 days of issuance of work order. Performance Security can be deposited in the form of DD/FDR/BG in favour of '**Indian Institute of Management, Lucknow**' payable at Lucknow with a validity of 3 years + the period required for completion of the project plus 60 days. The EMD of successful tenderer can be adjusted into the performance security on request. No interest will be paid by IIM Lucknow on EMD & Security Deposit Amount. Performance Security will be refunded/returned to the successful bidder, after two months of completion of warranty. Performance Security will be forfeited, if the firm fails to perform/abide by any of the terms or conditions of the tender document, work order and Agreement.
10. **Pricing:** While quoting the rates, the bidder shall read the full tender document and following parameters:
- Quote price for each of the components and also the total amount as per the tender document.
  - The prices are to be quoted on individual item rather than the total package.
  - Quote only for the product meeting the specification as per tender document. No changes in the configuration or deviation from the tender document will be permitted.
  - Need not suggest any alternative product or different configuration in the same product.
11. Each page of the tender document must be signed by the authorized signatory of the tenderer.
12. Original tender document duly signed and filled up should be uploaded.
13. The tender not accompanied by complete document or duly filled in all respect may be rejected.
14. All erasures, cuttings and alterations made must be attested by the authorized person while filling the tender document. Over-writing of figures is not permitted.
15. If any discrepancy / misprint is noticed / specification or BOQ, it should be clarified from the Institute before quoting the rate.
16. **IIML's Right to Terminate the Process:** IIML may terminate the Tender process at any time and without assigning any reason. IIML makes no commitments, express or implied, that this process will result in a business transaction with anyone. This Tender does not constitute an offer by IIML. The bidder's participation in this process may result in IIML selecting the bidder to engage in further discussions and negotiations

toward execution of a contract if necessary. The commencement of such negotiations does not, however, signify a commitment by IIML to execute a contract or to continue negotiations. IIML may terminate negotiations at any time without assigning any reason.

#### **F. GENERAL TERMS & CONDITIONS**

1. **Payment Terms:** 100% payments will be released only after successful SITC of the equipment(s). The final payments will be made based on the completion certificate and total works done.
2. **Procurement Rights:** IIML Reserves the right to conclude the purchase with entire or partial bill of material as mentioned in the price schedule.
3. **Variation in scope of works:** Variation in quantity of proposed equipment may increase or decrease as per requirement of IIM Lucknow within a range of 20%.
4. IIM Lucknow reserves the right not to accept the lowest tender or not to assign any reason for rejection of any or all the tenders. IIM Lucknow reserves the right for accepting the whole or any part of the tenders and decision in the matter shall be final and binding.
5. Any effort by the bidder to influence any IIML Official regarding the tendering process may result in rejection of his bid. EMD will be forfeited in such case.
6. Any failure on the part of the tenderer to observe the prescribed procedure and any attempt to canvass for the work will prejudice his/her tender. Tenders/rates quoted in other than the prescribed proforma are liable to be rejected.
7. The submission of tender will bind the tenderer to acceptance of all conditions specified herein and in addition to the conditions of the contract.
8. The vendor will depute technically qualified executive to coordinate the job with IIM Lucknow team.
9. If the bidder withdraws his bid during the period of bid validity, the EMD shall be forfeited and the firm may be black listed.
10. IIM Lucknow reserves the right to accept or reject any or all the offers either fully or partly without assigning any reasons.
11. The contractor shall not sublet, transfer or assign the contract or any part thereof. In the event of the contractor contravening this condition, in addition to forfeiture of Performance security, the firm can be blacklisted by IIM Lucknow.
12. While the workers of the contractor perform their duties (Scope of Work), it is to be ensured by contractor that no damage to any immovable or movable property is inflicted, and he will compensate to IIM Lucknow for any damages to such properties.
13. All the material used for the work shall be of the approved. IIM, Lucknow reserves the right to check the materials brought for as per scope of works & at any time and reject them, if not found suitable.
14. The tender shall be opened & evaluated by the tender committee and the successful tenderer shall be informed.
15. If any of the document submitted by the tenderer is found fake, even after the acceptance of tender, the contract will be terminated for which the concerned tenderer will itself be responsible and no compensation, etc., will be paid by the IIM Lucknow. Performance Security/EMD will be forfeited on such event.
16. All the documents forming part of the contract are to be taken as mutually explanatory, supplementary and complementary to each other. If there is any error, omission or discrepancy in any of them, it shall be brought to the notice of the IIM. The decision of the IIM shall be final and binding. The contractor shall execute the work accordingly.
17. The contractor shall examine all the contract documents thoroughly including the scope, nature and magnitude of works. He has to execute in accordance with the contract documents.

18. If any discrepancy occurs between the various instructions conveyed to contractor or his authorized representative or if any misunderstanding arises between the contractor's staff and IIM's staff, the contractor shall report the matter immediately to the IIM. The decisions of IIM shall be final and binding. Moreover, no claims for losses due to discrepancies between instructions, doubts or misunderstandings shall be admissible.
19. From the commencement to the completion of works, the contractor shall take full responsibility for the care of all works including all civil work and in case any damage or loss occurs then the contractor shall repair and make good the same at his own cost so that on completion of the work, the same shall be in good order in every respect in accordance with the contract and to the satisfaction of the IIM Lucknow.
20. **Termination:** The Institute may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Bidder, reject the offer in whole or in part. Breach of contract shall include, but shall not be limited to the following;
- a) The Bidder unable to provide service / supply of the equipment within prescribed time limit mentioned by IIML.
  - b) If the Bidder fails to perform any other obligation(s) under the Contract;
  - c) The Institute or the Bidder goes bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
  - d) Notwithstanding the above, the Institute may terminate / reject the offer for violation of any law, for any reason of quality of service; or for any irregularity committed by the bidder or any other like reasons. If the Contract is terminated, the Bidder shall stop providing services immediately.
21. **Penalty for Non-Compliance:**
- (A) Before supply, installation, testing, commissioning & handing over:**
- a) Penalty for the late delivery and late implementation than the stipulated date and time would be levied at the rate of 0.5% (zero point five percent) per week to be calculated on work order subject to a maximum of 10 percent of the value of work order. In case of delay beyond fifteen days from the stipulated period, IIML may, at its discretion, may cancel the order and arrange to procure the same from the next bidder on the panel/open market at the sole risk, cost and responsibility of the vendor.
  - b) Tenders once submitted will not be allowed to be withdrawn, altered or cancelled in part or in whole.
  - c) If the project / job is returned by the firm unexecuted after accepting the same, earnest money/security Deposit will be forfeited in full and job will be got executed at firm's risk from some other firm. The firm is also liable to be black listed.
  - d) Execution of job should be of standard quality, neat and accurate according to the specifications where IIM Lucknow is satisfied. If the execution of the job is not up to the standard, suitable deductions will be made or the entire job will be rejected, as the case may be, at the cost of contractor.
- (B) During Warranty:** During warranty, the successful bidder would ensure to attend the complaint registered by the Institute within 24 hours during the weekdays (Monday to Saturday) and 48 hours on other than week days. Failing this, a penalty of Rs.500/- per day for first 3 day, Rs.1000/- per day for next 3 days and Rs.2000/- per day thereafter would be imposed and will be recovered from the Security Deposit.
22. **Dispute Settlement & Appointment Of Arbitrator:**\_"All disputes or differences whatsoever arising between the parties out of or relating to the construction, meaning and operation or effect of the Tender and the resulting agreement or the breach thereof that cannot be settled by good faith and negotiations between the parties within 30 days of the commencement of negotiations shall be settled by referring the dispute to

the Director, IIM Lucknow, who may either herself decide the dispute as Arbitrator or appoint some other person as Arbitrator to adjudicate the same, who shall be unconnected with IIM Lucknow. The proceedings will be governed by the provisions of the Arbitration & Conciliation Act 1996. The venue of Arbitration proceedings shall be Lucknow and the language of the Arbitration shall be English. For any dispute, which is not resolved by the Arbitrator, the courts at Lucknow alone shall have jurisdiction.

**TECHNICAL BID**

S. No.	PARTICULARS	TO BE FILLED BY THE BIDDER								
1	Name of Bidder									
2	Name of proprietor/ Director of company/ Firm/ Contractor									
3	Full Address of Reg. Office									
4	Contact No.									
5	E-mail Address									
6	GST No. (attach self-attested copy)									
7	PAN No. (attach self-attested copy)									
8	The bidder should have supplied & installed such system (audio system) in last 3 years (cutoff date: last date for submission of bids) and the order value shall meet one of the following conditions: (a) One order of not less than 80% of the estimated tender value (b) Two orders of not less than 60% of the estimated tender value (c) Three orders of not less than 40% of the estimated tender value	Yes / No If yes, enclose work order and mention page number at which this/these order(s) is/are uploaded with technical bid. Order -1 is uploaded at Pg No. _____ Order -2 is uploaded at Pg No. _____ Order -3 is uploaded at Pg No. _____								
9	Details of EMD (Enclose screen-shot showing the details of transactions/exemption certificate)	Amount of EMD: Rs. _____ UTR / Transaction No. _____ Transaction Date: _____ In case, the bidder is exempted from deposit of EMD, please state the name of certificate uploaded: _____								
10	Does the bidder has OEM certification / authorized reseller of the major offered products?	Yes / No, If yes, mention the same in <b>Annexure-A</b>								
11	Has the bidder filled & enclosed <b>Annexure-A</b> with required enclosures	Yes / No If yes (Page nos. from ____ to ____)								
12	Has the bidder enclosed the Acceptance & non-black-listing declaration ( <b>Annexure-B</b> )	Yes / No								
13.	Financial Turnover details of the bidder	<table border="1"> <thead> <tr> <th>Financial Year</th> <th>Amount (Rs. In Lakhs)</th> </tr> </thead> <tbody> <tr> <td>2018-19</td> <td></td> </tr> <tr> <td>2019-20</td> <td></td> </tr> <tr> <td>2020-21</td> <td></td> </tr> </tbody> </table>	Financial Year	Amount (Rs. In Lakhs)	2018-19		2019-20		2020-21	
Financial Year	Amount (Rs. In Lakhs)									
2018-19										
2019-20										
2020-21										

This is to certify that I have understood the terms & condition of the tender document and all the information provided above & enclosed is true to the best of my knowledge and belief.

Signature of the Bidder \_\_\_\_\_

Date: \_\_\_\_\_



**DETAILS OF THE ITEMS PROPOSED BY THE BIDDER FOR INSTALLATION****Schedule-A**

<b>Sl. No.</b>	<b>Description of the item</b>	<b>Quantity*</b>	<b>Brand/Make of proposed product</b>	<b>Are specifications of the proposed brand/make meet the requirement of Tender Document (YES / NO)</b>	<b>Does the bidder has OEM certification (authorized reseller) of the major components required proposed</b>
1	Infrared Wireless Microphone^	02			Yes / No If yes, Enclose certificate
2	Infrared Wireless Tuner^	02			Yes / No If yes, Enclose certificate
3	Battery Charger^	02			Yes / No If yes, Enclose certificate
4	Infrared Wireless Speaker^	04			Yes / No If yes, Enclose certificate
5	Installation cost including cost towards Cable/ connectors, required if any.	2 class rooms			N.A.

^The technical specifications of the above-required items (1-4) may be seen in Annexure-C

\* The quantity will be installed in 2 class rooms i.e. 50 of quantity will be installed in one class room and balance 50% in another class room

**SIGNATURE OF BIDDER WITH DATE & STAMP**

**Annexure-B**

**INDIAN INSTITUTE OF MANAGEMENT, LUCKNOW**  
**Prabandh Nagar, IIM Road, Lucknow – 226 013, U.P. (India)**  
**Website: [www.iiml.ac.in](http://www.iiml.ac.in)**

**DECLARATION FORM**

1. I/ We \_\_\_\_\_ (Designation) \_\_\_\_\_ of (Name of the company) \_\_\_\_\_ I hereby accept the Terms & Conditions mentioned in the tender document along with annexure(s).
2. Further it is certified that we have never been black-listed by any Government / PSU / Autonomous Body in Past.
3. We also certify that all the information provided by the is true and correct and we understand that in case any information provided by the us, is found to be incorrect or misleading, our contract can be terminated and EMD/Security Deposited may be forfeited and we may be blacklisted.

**Signature of the bidder with stamp & date** \_\_\_\_\_

## Technical specifications

Sl. No.	Description of item	Specifications
1	<b>Infrared Wireless Microphone</b>	
	Batteries	One piece of IR-200BT-2 rechargeable battery for the infrared wireless microphone (option)
	Current Consumption	typ.215 mA (1.2 V)
	Infrared Emitter	
	Wavelength	870 nm (AM: Brightness modulation)
	Carrier Frequency	Channel A: 3.100 MHz/Channel B: 3.350 MHz
	Transmission Distance	50 ft (In an unobstructed space)
	Maximum Input Sound Pressure	120 dB SPL
	Input Sensitivity Adjustment	Adjustment range: 2 levels (High, Low)
	Microphone Unit	Unidirectional electret condenser microphone
	Frequency Response	100 Hz – 12 kHz
	Preemphasis	300 $\mu$ s
	Input	External microphone input ( $\phi$ 3.5 monaural mini jack, phantom powered)
	Battery Operation Time	Approx. 8 hours (one piece of IR-200BT-2)
	Operating Temperature	0 $^{\circ}$ C to + 40 $^{\circ}$ C (32 $^{\circ}$ F to 104 $^{\circ}$ F)
	Operating Humidity	90 % RH or less (no condensation)
	Finish	Control Section: ABS resin, white/Filter Section: Polycarbonate, optical cut filter
	Dimensions	2.13" (W) x 4.29" (H) x 1.06" (D) (54.2 x 109 x 27 mm)
	Weight	0.21 lbs (95 g) (with battery and strap)
	Accessories	Neck strap x 1
2	<b>Infrared Wireless Tuner</b>	
	Power Source	120 V CA, 50/60 Hz (se debe usar el adaptador de CA suministrado)
	Power Consumption	8 W (based on UL standards) Max. 40.8 W (rated output of IR-820SP)
	Rated Output	20 W
	Receiving Frequency	Teacher (Channel A): 3.100 MHz Student (Channel B ): 3.350 MHz
	Receiver Frequency	50 dB or more, Signal-to-noise ratio (40 dB $\mu$ V input, 1 kHz modulation, $\pm$ 4.8 kHz deviation)
	S/N Ration	Tuner: 60 dB or more (60 dB $\mu$ V input, 1 kHz modulation, $\pm$ 4.8 kHz deviation, A-weighted, Equalization: Centered) AUX: 75 dB or more (A-weighted, Equalization: Centered)
	Tone Squelch Frequency	32.768 kHz
	Input AUX PC:	line, -10 dB*, 10 k $\Omega$ , unbalanced, stereo mini jack (internal mixing)
	AUX DVD/TV:	line, -10 dB*, 10 k $\Omega$ , unbalanced, 2P RCA jack (internal mixing)
	AUX MP3:	line, -10 dB*, 10 k $\Omega$ , unbalanced, stereo mini jack (internal mixing)

	Mute	25 V line signals of telephone paging from a school intercom system)
	Output	ALD (Assistive Listening Device): line, -10 dB*, 10 kΩ, unbalanced, monaural mini jack Speaker: RJ45 (dedicated terminal for IR-820SP connection)
	Frequency Response	Tuner: 100 Hz - 12k Hz, AUX: 100 Hz - 20k Hz
	Equalization	High: ±10 dB at 10 kHz/Mid: ±10 dB at 1.3 kHz/Low: ±10 dB at 100 Hz
	Mute Function	Muted by 25 V line signals
	LED Indicator	Power (green) x 1, Infrared reception (yellow) x 2, Mute (red) x 1
	Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)
	Operating Humidity	90%RH or less (no condensation)
	Finish	Panel: Aluminum, black/Case: Steel plate, black
	Dimensions (W) x (H) x (D)	8.27" x 1.81" x 12.28" (210 x 46 x 312 mm)
	Weight	3.97 lbs (1.80 kg)
	Accessories	AC adapter(DC cord length:5.91 ft) x 1, AC power cord (6.56 ft) x 1 Volume control cover x 6, Removable terminal plug (2 pins) x 1
	Option	Half-width blank panel: MB-15B-BK
<b>3</b>	<b>Battery Charger</b>	
	Power Source	AC mains 50/60 Hz (use of the supplied AC adapter)
	Current Consumption	Max.: 2 A
	Charging Time	Max.: 3 hours
	Number of Wireless Microphones Charged Simultaneously	1 piece
	Operating Temperature	0 °C to +40 °C (32 °F to 104 °F)
	Operating Humidity	90 % RH or less (no condensation)
	Finish	Control section: PPE resin, white
	Dimensions (W) x (H) x (D)	2.99" x 2.97" x 2.36" (76 x 75.5 x 60 mm)
	Weight	0.23 lbs (105 g)
	Accessories	AC adapter x 1, Power cord x 1
<b>4</b>	<b>Infrared Wireless Speaker</b>	
	Power Source	24 V DC (supplied from IR-802T)
	Power Consumption	4.4 W (based on UL standard)
	Rated Output	20 W
	Frequency Response	100 Hz – 20 kHz (-10 dB) at installation in 1/2 free sound field (Measured by installing the unit in the center of a ceiling.)
	Amplification System	Clase D
	Distortion	5 % or less (rated output)
	Speaker Component	12 cm (4.72") cone-type
	Infrared Wireless Receiver	
	Wavelength	870 nm
	Carrier Frequency	Channel A (for teacher) : 3.100 MHz Channel B (for students) : 3.350 MHz
	Reception Angle	360° (Horizontal)
	Connection Terminal	RJ-45
	LED Indicator	Power (green) x 1

UL Code	UL60065, UL2043
Mounting Hole	∅ 300 mm (11,81")
Usage Cable	CAT-5 UTP
Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)
Operating Humidity	90% RH or less (no condensation)
Finish	Enclosure: Steel plate, plating Baffle : Fire-resistant ABS resin (resin material grade: UL94 V-0), white Punched net : Steel plate, white Filter section : Polycarbonate, optical cut filter
Dimensions	∅12.6" x 8.07" (D) (∅320 x 205 mm)
Weight	7.5 lbs (3.4 kg)
Accessories	Safety wire x 1, Ceiling reinforcement ring x 1, Trim ring x 1, Paper pattern x 1
Option	Tile bar bridge: HY-TB1

## FORMAT FOR FINANCIAL BID

**This format is only for reference and must NOT be filled by the bidder. A separate excel sheet has been provided on eProcurement portal with this NIT to fill the rates and upload the same.**

**It may be note that disclosing the rate in Technical Bid will result in technical disqualification of the bid.**

Sl. No.	Description of the item	Quantity*	Rate in Rupees PER UNIT (excluding GST)	The rate in Rupees for the quantity proposed to be purchased (excluding GST)
1	Infrared Wireless Microphone^	02		
2	Infrared Wireless Tuner^	02		
3	Battery Charger^	02		
4	Infrared Wireless Speaker^	04		
5	Installation cost including cost towards Cable/ connectors, required if any.	2 class rooms		
Total Amount in Rupees				

^The technical specifications of the above-required items (1-4) may be seen in Annexure-C

\* The quantity will be installed in 2 class rooms i.e. 50 of quantity will be installed in one class room and balance 50% in another class room

1. Items should be as per specifications in tender documents.
2. GST will be extra as applicable.
3. Lowest Bidder (L1) decided on total rate quoted for 2 classrooms.

**NAME AND SIGNATURE OF THE BIDDER WITH SEAL**