

Lowndes County School District

INTEGRATED IP BASED CLASSROOM SOUND ENHANCEMENT SYSTEM WITH SAFETY & INTERCOMMUNICATION SYSTEM

Due Date for Bid: 1:00 PM (CST), March 15, 2024

REQUEST FOR BID

Address

**Lowndes County School District
1053 Hwy 45 South
Columbus, MS 39701**

Bid Solicitation Start Time and Date Monday, February 19, 2024 @ 10:00 am

Bid Solicitation End Time and Date Friday, March 15, 2024 @ 1:00 pm

Reverse Auction Start Time and Date Thursday, March 21, 2024 @ 10:00 am

Reverse Auction End Time and Date Thursday, March 21, 2024 @ 10:35 am

NO BID ACCEPTED after 1:00 PM (CST) March 15, 2024

Lowndes County Schools

Bid/RFB No 022024

Notice to Bidders

Notice is hereby given to interested bidders that the Lowndes City School District will receive electronic bids until the hour of 1:00 PM (CST) March 15, 2024.

Bid Timeline

Issue Bid/RFB	February 19, 2024 @ 10:00 am
Advertise Dates	February 21 & February 28, 2024
Letter of Intent to Bid	March 1, 2024 @ 10:00 am
Vendor Questions Deadline for Pre-Proposal Meeting	March 7, 2024 @ 10:00 am
Pre-Proposal Meeting via Teams	March 8, 2024 @ 10:00 am
RFB/Bid Request Forms	March 15, 2024 @ 1:00 pm
Reverse Auction Start Time	March 21, 2024 @ 10:00 am
Reverse Auction End Time	March 21, 2024 @ 10:35 am
Anticipated Evaluation and Selection	April 05, 2024 @ 12:30 pm
Anticipated Board Approval/Award	April 12, 2024 @ 12:30 pm

***Pre-Proposal Meeting**

A pre-proposal meeting will be held via teams on Friday, March 8, 2024 at 10:00 am central time. Please submit (in writing) any questions regarding this RFB. Only written questions will be considered and deadline to submit questions for pre-proposal meeting is March 7, 2024 at 10:00 am central time. It is highly encouraged that all potential proposers participate and attend the pre-proposal meeting. However, the meeting is not mandatory.

Lowndes County School District is soliciting offers for the products, goods, or services per the specifications stated in this document. **Bidder must bid on all locations that are listed in the Bill of Materials.**

Offers must be submitted in sufficient time to be received and time-stamped on or before the receipt/opening date/time indicated above. **All offers must be accepted electronically through Central bidding at www.centrauctionhouse.com.**

Questions concerning this solicitation document should be addressed, in writing, to Roger Gaudet-Roger.Gaudet@lowndes.k12.ms.us. Questions should be submitted early enough to allow sufficient time for responses to address at the pre-proposal meeting and prior to receipt/opening date/time. Responses to questions, other than administrative questions, will be provided to all potential Offerors by means of an addendum to the solicitation.

The attached “General Terms and Conditions” are an integral part of this solicitation and will become part of any resulting contract unless deviations/exceptions are requested by Offeror at time of response and accepted by Lowndes County School District.

All forms included as part of this solicitation must be completed and returned with Offeror’s response. This solicitation is for a multi-year requirement as noted elsewhere in this solicitation.

The District is seeking to contract with the most highly qualified Respondent(s) for products and/or services related to providing: INTEGRATED IP BASED CLASSROOM SOUND ENHANCEMENT SYSTEM WITH SAFETY & INTERCOMMUNICATION SYSTEM. Any contract resulting from this solicitation will be awarded on the basis of demonstrated competence and qualifications to perform such services for a fair and reasonable price. See “Contract

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Documents and Order of Precedence” in General Terms and Conditions.

Reverse Auction Information

Bids will be received by an Electronic Sealed Bidding Process administered by Central Bidding at www.centralauctionhouse.com at which time bidding will begin and run until potential suppliers have completed entering all bids. Official bid documents can be downloaded at Central Bidding or Lowndes County School District websites and are listed below.

Central Bidding

<https://www.centralauctionhouse.com/rfp10991186-integrated-ip-based-classroom-sound-enhancement-system-with-safety-intercommunication-system.html>

Lowndes County School District Website

<https://www.lowndes.k12.ms.us/apps/pages/technology>

Electronic bids/proposals can be submitted at www.centralauctionhouse.com. For any questions regarding the electronic bidding process, please contact Central Bidding at (225) 810-4814 or info@centralbidding.com.

Registration with Central Bidding and acceptance of Central Bidding terms and conditions is not optional and is required to participate in this bidding event. No exceptions will be made.

Specification responses must be submitted for this event in order to be considered for this bidding opportunity. Specification response forms shall not contain pricing. Pricing shall only be taken online through the Central Bidding website.

Specification responses forms and samples, if required, should be submitted at www.centralbidding.com by March 15, 2024 @ 1:00 p.m.

The vendors who have submitted required documents by the bid solicitation end time and if meet the bid requirement will be invited to the reverse auction. No bid shall be accepted or considered after such scheduled time.

All correspondence and inquiries regarding this bid must be done via Email to:

Jeanise.Andrews@lowndes.k12.ms.us or Roger.Gaudet@lowndes.k12.ms.us

If a vendor does not receive a response within 24 hours, it is the responsibility of the vendor to call Jeanise Andrews, Technology Coordinator at 662-244-5018 or Roger Gaudet, Network Manager at 662-244-5006 and confirm that the email message was received.

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Form A

Signature below represents that Offer is submitted.

OFFER MUST BE SIGNED

Company Name:	Submitter's Name/Title:
Address:	City, State and Zip Code:
Email Address:	Telephone No.
Submitter's Signature:	Date:

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BID PROPOSAL RESPONSE FORM

Due 03/15/2024 @ 1:00 p.m.

Lowndes County School District extends this offer to submit a bid for the services being requested within this RFB. Please ensure you are able to meet the specifications for EVERY area as requested.

Bidder must indicate below whether his or her bid is in complete compliance with the stated specifications. If there are any deviations from the specification, the bidder must indicate in writing what the deviations are and must submit with his bid complete description literature on the items bid.

☐ Bid is in complete compliance with the bid specifications

☐ Bid deviates from stated specifications as follows:

Merchantability & Quality:

Seller warrants that the goods will be merchantable quality, free from defects in materials and workmanship, and will conform to the descriptions and specifications contained in this document and in seller's catalogues, products, brochures, and other representations, depictions, or models for the goods.

Specify your warranty/guarantee beyond that stated above. Provide a clear description of warranty/guaranty service offered and duration of service (i.e. on site, call tag service, parts and labor included, parts only).

State specifically how you would handle warranty service (i.e., vendor on site pick up, *Lowndes County School District* to mail to manufacture, etc.)

Exclusion of Trade Usage:

This document contains all the terms, conditions, obligations, to which the parties have agreed and shall not be modified, controlled, explained, supplemented, or affected in any way by any usage of trade not expressly included in this agreement.

Term of Contract:

The successful vendor(s) will enter into an annual contract for Catalog/Discount Vendors. The initial contract period shall be effective upon Board approval and be firm for one (1) year from the date of the award. The contract, upon agreement of both the successful vendor(s) and *Lowndes County School District*, shall have the option to extend for two (2) additional one (1) year periods. Also, *Lowndes County School District* has the option to extend this RFB at the end of the performance period for up to 120 days if determined to be in the best interest of the district to ensure availability of products and/or services. If the option is extended, *Lowndes County School District* can purchase additional items off the current bid with the same bid pricing even if there is an upgrade model, part, etc. *Lowndes County School District* has the option to issue subsequent RFBs as needed. The district reserves the right to award multiple Contractors to achieve the best value.

The Lowndes School District is accepting bids for Catalog/Discount Vendors. The proposals shall include all labor, materials, superintendence, tools, and equipment necessary for completion of assigned work, in accordance with the instructions, terms and conditions, and requirements/specifications contained in this agreement. Proposers are requested to include pricing/discounts on the basis of these specifications. A Pricing/Discount Bid must be submitted for each commodity listed.

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GENERAL SPECIFICATIONS:

1. This following are the General Conditions for the work to be performed as outlined in the detailed specifications listed.
2. Lowndes County School District has the right to increase or decrease quantities based on the prices and or funding. In addition; Lowndes County School District shall have the option to make purchase from this RFB for an option up to a three-year period with the same prices included in the current RFP.
3. The specifications listed below are the required minimum specs. Lowndes County School District will accept bids that exceed the specifications that are listed.

Please indicate Yes or No for the general specifications listed below.

Authorized Partner	Yes_____	No_____
Can meet Davis Bacon requirements	Yes_____	No_____
Installation/Setup/Configuration included	Yes_____	No_____
Provide references of similar installs	Yes_____	No_____
Possible after business hours	Yes_____	No_____

By signing the Bid Proposal Response Form, the Bidder certifies that this information is correct to the best of my knowledge and belief.

Bidder Signature

Date Signed

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Davis Bacon Act:

All transactions regarding this contract shall be done in compliance with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) and the requirements of 29 C.F.R. pt. 5 as may be applicable. The contractor shall comply with 40 U.S.C. 3141-3144, and 3146-3148 and the requirements of 29 C.F.R. pt. 5 as applicable. Contractors are required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. Additionally, contractors are required to pay wages not less than once a week.

I. BACKGROUND:

Lowndes County School District is currently seeking a qualified contractor to provide INTEGRATED IP BASED CLASSROOM SOUND ENHANCEMENT SYSTEM WITH SAFETY & INTERCOMMUNICATION SYSTEM AS SPECIFIED IN THIS DOCUMENT at the following locations

Lowndes County District Office
1053 Hwy 45 South, Columbus, MS 39701

Career & Technical Center
1085 Lemberg Road Columbus, MS 39702

West Lowndes Elementary
1000 Gilmer-Wilburn Road Columbus, MS 39701

West Lowndes High
644 South Frontage Road Columbus, MS 39701

Caledonia Elementary
9509 Wolfe Road Caledonia, MS 39740

Caledonia Middle
99 Confederate Drive Caledonia, MS 39740

Caledonia High
111 Confederate Drive Caledonia, MS 39740

New Hope Elementary
199 Enlow Drive Columbus, MS 39702

New Hope Middle
3419 New Hope Road Columbus, MS 39702

New Hope High
2920 New Hope Road Columbus, MS 39702

Lowndes County Alternative School
3419 New Hope Road Columbus, MS 39702

EQUIPMENT AND INSTALLATION METHODS MUST MEET THE APPROVAL OF THE DISTRICT STAFF BEFORE ORDER IS ISSUED. The district will pay for the equipment as it is delivered. However, installation will not be paid until the equipment is installed per site location. All equipment will be delivered to Lowndes County District Office at 1053 Hwy 45 South, Columbus, MS 39701.

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II. SCOPE AND SPECIFICATIONS:

The Lowndes County School District would like to extend a formal offer to all qualified contractors according to the specifications indicated within this RFB. Please review carefully all sections of the RFB, including the Pre-Proposal meeting, along with the Closing Date and Time. **This bid may be awarded for all schools at one time; or we reserve the right to award based off the need of the district and funding. However, we are seeking pricing for “Each” entity.**

- The work covered by this section of the specifications shall include all material, labor, hardware, software, firmware, and programming to install a completed and operating system as described herein. The system shall utilize the schools shared data network, and not require the use of any proprietary switches, routers, or other network components. The physical network components shall be provided by the owner or the contractor, the scope of this document does not include the physical network including switches, routers, or network cabling. Beyond the shared data network hardware, the rest of the system shall be complete with all necessary materials, labor, hardware, software, firmware, and programming specifically tailored for the installation. It shall be possible to permanently modify the software on site by using a system administrator software network interface.
- The intent of this specification shall maximize communications between the classroom and administrative areas utilizing VoIP (Voice over Internet Protocol) Technology while enhancing school safety and reducing maintenance, operational, and installation cost. Intended system shall integrate seamlessly as a complete system for local sound reinforcement as well as supporting intercom, paging, and bells functionality.
- Under this specification, the system shall provide a complete VoIP Communication System for all classrooms and flex spaces as indicated on the drawings. An analog solution using speakers and volume controls in the offices, corridors, exterior locations, restrooms, gymnasium, cafeteria, and ancillary support buildings shall also be part of this project.
- System shall support strobes or Visual Messaging Displays to alert of notifications as an integrated component of the system.
- The Communication System shall provide VoIP or network distribution of intercom, overhead paging, emergency paging, class change time tones, emergency tones and program material. The system shall also support visual messaging that will match the audible messages from the system included automated setup of the devices.
- Any and all miscellaneous materials, labor, hardware, software, firmware and programming that is not listed in the specification section that is required to provide a complete and operating system shall be provided as part of the scope of work for this installation.
- The work covered by this section shall be coordinated with any and all trades that are affected by the installation of this system. All work shall be complete and as required and specified elsewhere under these project specifications.
- All the actual required system components and cabling are not shown or specified as this carries between acceptable manufactures and suppliers. It shall be the responsibility of the contractor to obtain this information from the acceptable supplier and or manufacturer and include the cost of the same in their bid.
- The ability to be distributed via a fiber 10/100/1000Mb switched, VLAN enabled network or 10/100/1000Mb switched stand-alone intercom network. It shall be possible to eliminate the need for copper feeder cables between the Main and Intermediate distribution frames using fiber optic cabling.
- Shall have SIP (Session Initiation Protocol) Integration to connect all talk-paths to the VoIP phone system of choice. This shall support registering as an extension on the system or through the use of a SIP Trunk.
- The system shall provide the ability to support a SIP tunnel from the building's VoIP phone system to provide two-way communication from all administrative telephones to any location equipped with a talkback speaker or audio system with room microphone.
- System shall interface with any VoIP telephone system using SIP type integration thus allowing the school(s) to upgrade or replace their telephone system without suffering a requirement to replace, or lose any feature of, their internal communications (intercom) system. Any system that limits system features based upon any selected telephone system and is not SIP based shall not be acceptable.
- Automatically sound a tone or play a pre-page WAV file over any loudspeaker connected for two-way communication to alert the classroom teacher that this 2-way call has been established. This is intended to prevent unauthorized monitoring.
- Distribution of emergency announcement(s) from any authorized telephone to all areas furnished with a loudspeaker. Emergency announcements shall have the highest system priority.

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- Distribution of general announcements from any administrative telephone, staff telephone, or classroom telephone. The system shall be capable of providing all-call, group call, or multiple group call.
- Classroom speakers or audio systems with room microphone shall be software assignable to unlimited paging groups.
- Provide the ability to define and archive unlimited schedules with up to three hundred (300) events per schedule. Each scheduled event shall be capable of activating included tones or playing custom audio/voice phrases or controlling any I/O port on a system network interface for building control and scheduled along with a bell. Schedule administration, modification and creation functions shall be available through web access on remote computers and mobile devices.
- System shall automatically make audible messages display on scrolling LED displays as needed with no additional programming.
- System shall support a strobe light to be used in conjunction with audible messages for loud areas.
- The system shall provide an administrative console for the front office, consisting of a touch screen interface no less than 22" diagonal interface.
- The User Interface shall be map based and support full touch operation. The manufacturer shall provide the ability to take a map in any format, including paper copy, PDF, Visio, etc. and create from that the map used for the primary user interface. Non-map-based User Interfaces will not be considered.
- The WAV or MP3 files shall be activated via the administration software, telephone and / or telephone system and / or pushbuttons.
- The WAV or MP3 files shall be programmable as to what level of priority they can be broadcast. They shall be programmable as to override any class change tones, normal all call, music, and intercom in the event of an emergency.
- The WAV or MP3 files shall also have the ability to be broadcast into any one or all of the zones with the system.
- The WAV or MP3 files shall have the ability to be broadcast via a schedule for any day of the week or time of the day. They shall also have the ability to be broadcast for any duration of time and repeat number of plays with the ability to select how long the duration is between each repeated broadcast.
- The WAV or MP3 files shall also have the ability to be a part of the classroom change tones within the system. These files shall be able to replace any tone within the class change schedules as to offer the flexibility of customizable tones and or phrases in this class change mode.
- It shall be possible without the cost of additional hardware/software to incorporate a LAN/WAN district wide paging system by means of the built in VoIP district Paging Adapter or district software. This adapter shall give the district the ability to page each school independently, as a group of schools, or all schools.
- The system shall allow for the integration of changeable message signs to support bells and notifications. These signs shall be multi-color, multi segment LED scrolling displays and powered and controlled via a network PoE (Power over Ethernet) connection.
- The system shall also allow for the integration of third-party system through the use of contact closure, TCP (Transmission Control Protocol) communication, RS-232 communications and HTTP (Hypertext Transfer Protocol) communications.
- The system shall support and allow for device managed within the system itself including device discovery, automated programming and automated assignment to rooms and zones.
- System must support device programming templates per device per site and support making individual adjustments to those templates on a per device basis and that setting would supersede the template for that device only.
- System shall support monitoring and upgrading firmware of supported devices.
- System shall support management of IP based PoE visual message displays and automate the programming of devices through the interface including automatically applying visual messages for bells and notifications without the use of a secondary application or software.
- The system shall support an automated commissioning function that allows the system to be placed into a test mode and monitors and reports the commissioning status of the devices.
- System shall support a district server that will allow for management and monitoring of all schools in the district. Server must support physical and virtualized server deployments. The district central server will allow for centralized paging to entire district, groups of schools or individual schools. Server will support the ability to record and preview the page before it sends to the sever. Server will also support sending notifications to a school, group of schools or entire district. Server will support defining associated campuses for schools to automate events and notifications at those sites. Shall support centralized reporting of alerts and allow to directly interact with alert. Server interface shall be map based and support nested

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maps allowing for closer detail on an area or grouping of schools. District server shall support monitoring servers and devices at campus and alert via UI on any degraded or offline devices. Server shall support direct access of campus servers through single pane of glass and will not require authenticating into individual sites.

III. SUBMITTAL REQUIREMENTS AND PROPOSAL FORMAT

A. Proposal Requirements

1. In addition to the requirements listed in other sections of this RFB, proposals shall be submitted by section as instructed below. The respondent agrees and shall comply with all provisions and specifications stated in this RFB unless otherwise stated in the Exceptions section. Any additional costs or factors to meet a specification or requirement must be noted in the Exceptions section. Failure to respond to these requirements may result in the proposal being considered non-responsive and not meeting the specifications of this RFB. Proposals that are deemed non-responsive or not meeting the specifications shall NOT be evaluated for consideration.
2. Executive Summary/Overview
 - a. Provide a brief profile of your company.
 - b. Provide the overall qualifications of your company to provide the services requested. Illustrate experience with projects of similar size and complexity.
 - c. A written summary of the understanding of the scope of work to be performed (for every proposal/system being submitted).
 - d. Technical summary of the system proposed, including details about any “value add improvements” over and above the base requirements (for every proposal/system being submitted).
3. Contractor and System Requirements
 - a. Include data sheets/cut sheets for all major hardware and software components being proposed
4. Installation Methodology
 - a. Data collection
 - b. Developing design documents with an emphasis on modern configuration practices to leverage newer features
 - c. Testing, cuts, and go-lives
5. Quality Control Plan
 - a. Respondent shall provide detailed company Quality Control procedures, examples of QC plans/results, and checklists, etc.
6. Support, Qualifications, and References
 - a. Qualification’s narrative
 - b. Resumes of key team members that shall be assigned to District
 - c. Individual Certifications
 - d. Company Certifications, including partner levels and specializations
 - e. Provide copies of certifications for individual and company. Certifications must be current and valid
 - f. Support Capabilities
 - g. References
7. Exceptions, Assumptions, and Clarifications
 - a. Failure to include any exceptions, assumptions, or clarifications shall indicate that respondent agrees to all requirements, specifications, terms, and conditions in the RFB.
8. Value-add to the District
 - a. Describe any value-add that the Respondent offers to the District as a part of the respondent’s proposal. The District encourages Respondents to be creative and consider solutions or items that will highlight the Respondent's level of partnership and engagement to Lowndes County School District.

- B. Submittal of Qualifications - Respondents shall submit experience and qualifications as described in the RFB. Additional information may be submitted as appropriate to describe the Respondent further and provide product capabilities.

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- C. Minimum Contractor Qualifications - This form (Exhibit VIII) shall be completed and delivered with the Proposal response. The response shall also include references and required certifications and/or trainings for the systems being proposed. Respondents not meeting these requirements may not be considered.
- D. Pricing
 - 1. Provide a Pricing Summary showing model/part number, description, and quantity for all components proposed, both in summary and per campus (if provided). Respondent shall provide this information in the pricing summary Microsoft Excel spreadsheet. Successful contractors shall provide detailed unit pricing, extended pricing, and list pricing and include all required installation, training, and other service expenses. See the section "Proposal Requirements."
- E. Support After Installation (Exhibit IX)
 - 1. Provide a service personnel trained in maintaining the proposed systems and if the Respondent employ in the District's area.

IV. SYSTEM REQUIREMENTS/EQUIPMENT

A. INTERCOM PAGING SYSTEM:

The system shall be a software-controlled system, whose primary interface is a web-based portal, accessible from any authorized computer. The system shall support being deployed on physical server hardware or through virtualization on the customer's hardware. For the physical server, the system shall utilize a 1U rack server, operating as an appliance, dedicated to the operation of the IPB (Intercom Paging and Bells) & SAFE (Signal Alert For Education) System™ only. The rack server shall have industry standard redundancy, including RAID1, Dual Power Supplies, and hot swappable hard drives. The entire system shall be Linux based. If virtualized the system shall support VMWare ESXI version 6.5 or later.

- 1. The system shall be based on standards compliant SIP and RTP communications across the network and shall allow direct Trunk Integration to the VoIP telephone system.
- 2. The system shall provide a simple calendar-based scheduling system for bells. It shall provide the ability to have an unlimited number of bell schedules.
- 3. The system shall provide a map-based User Interface. All major functions, including Intercom, Paging, Notifications and Alerts shall be done using the map as the foundation for those actions. Paging shall clearly show on the map where the page audio will be transmitted to.
- 4. Bell Schedules shall be easily assigned to days and changed simply with authenticated access to the system through any browser-based device. Bell schedules shall be able to be changed even if a current schedule is active in the system same day and apply immediately.
- 5. The system shall support utilizing a shared data network and support (VLAN [Virtual Local Area Network] enabled) or dedicated network as means of distribution for all voice overhead paging, emergency paging, emergency tones, intercom, and class change tones. System shall support routing of traffic across multiple subnets and network segments.
- 6. The system shall be capable of accessing remote classrooms (trailers, temporary classrooms etc.) via IP interface or room audio system with room microphone. This shall provide intercom, class change tones, emergency tones, and normal / emergency paging via a wired network to these remote locations.
- 7. Exterior speakers shall be capable of being on separate zones and programmed separately.
- 8. The system shall have the ability to synchronize to the same NTP server utilized for the Master Clock system.
- 9. The system shall have the ability to produce user defined tone signals for time tones or emergency tones.
- 10. The system shall have SIP Integration to connect all talk-paths to the VoIP phone system of choice.
- 11. The system shall provide the ability to support a SIP trunk from the building's VoIP phone system to provide two-way communication from all administrative telephones to any location equipped with a talkback speaker or audio system with room microphone.
- 12. The system shall interface with any VoIP telephone system using SIP type integration thus allowing the school (s) to upgrade or replace their telephone system without suffering a requirement to replace, or lose any feature of, their internal communications (intercom) system.

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- Any system that limits system features based upon any selected telephone system and is not SIP based shall not be acceptable.
13. The system shall provide its own SIP environment, and in the case of a failure of the schools VoIP telephone system, be capable of operating completely independently for all functions, save access from the handsets connected to the schools VoIP system.
 14. The system shall not be reliant on WAN or internet connectivity for operation.
 15. The system shall provide web access, which will give ability to monitor operations and functions of the system.
 16. The system monitors the status of all connected devices for health, SIP connectivity and connected devices including the XD receiver. If a device becomes in a degraded or offline state, the system will monitor a technical contact via email and or SMS as well as show status on the map of the console.
 17. The system shall provide web-based off-site programming and diagnostics of the system. It shall also be capable of determining basic circuit faults.
 18. The system shall have a Web based administration programming tool which allows the administrative personnel to easily manage Audio Sources, Class Change schedules, paging groups, time updates, holiday schedules and day/night mode operation from an internet browser. System shall support HTML5.
 19. The system shall provide calendar-based scheduling up to four years in advance. The system shall be capable of displaying a fully year calendar and differentiating which bell program is scheduled to run on each day. The calendar shall be based on a standard school year and provide a selectable start month for example, it can be configured to run from August to July.
 20. The system shall be capable of being fully integrated with the school's existing LDAP (Lightweight Directory Access Protocol) or Active Directory system. Systems that do not provide LDAP or Active Directory integration shall not be considered.
 21. The system shall provide discreet control over roles for the system. Roles shall be definable down to the individual feature level and provide the district with the ability to restrict or grant access to any roll individual features or groups of features.
 22. The system shall provide web browser access to the system specifically for a teacher. Teacher access shall be assigned through LDAP or Active Directory. The Teacher screen shall provide information specific to the room that the teacher is assigned to. That information shall consist of, but not limited to, the next scheduled event for the room (Bell, Announcement, etc.), Audio/Visual Controls for their classroom technology, Teacher Name, Room Number, an Intercom Call button, and an Emergency call button.
 23. The system shall have the ability to carry IP Communications to the edge of the classroom Audio/visual Systems. It shall be able to control connected A/V Devices, provided that those devices are controllable by RS-232.
 24. The system shall be based on a database structure, utilizing a robust commercially available database such as SQL (Structured Query Language).
 25. The system shall provide 2-way handsfree communication in each classroom.
 26. System Classroom and Common Zone network interfaces shall be capable of utilizing standard Cat 6/6a infrastructure for installation from the Telecommunications Closets only to the classroom and/or zone, thus allowing for only one type of wiring infrastructure within the school. Distribution of all voice signaling shall utilize a shared or dedicated network. Systems that require homerun, dedicated, 18 gauge shielded wiring shall not be acceptable.
 27. The system shall provide a flexible and robust event engine. In addition to pre-programmed events and actions, the event engine shall be capable of accepting Java-based programming to accomplish advanced integrations and functions.
 28. The system shall automatically broadcast page emergency instructions throughout an entire school when an alarm (e.g., lockdown, lockout, security, fire) is tripped or manually activated. The emergency instructions shall be preprogrammed and require no user intervention. The system shall provide redundant alarm annunciation over intercom/paging speakers and is not meant to replace primary fire alarm or security systems.
 29. The system shall provide the ability for the school to upload their own recorded files for both Bell Tones, and Notifications.
 30. The system shall provide the ability to initiate school safety paging announcements, evacuation tones and take cover tones from any telephone within the facility or outside the facility to any other location within the facility or district.

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31. IP-enabled two-way voice communication shall be available from any provided telephone or administrative console through any speaker in the system. This shall allow handsfree communication to any classroom or any individual loudspeaker unit. A pre-announce tone shall sound immediately before the intercom path is opened.
32. The system shall provide a complete personal alert function for each teacher. The alert functionality shall be an integrated part of the administrative head end software and shall not require any separate application or hardware to support this functionality.
33. The teacher personal alert functionality shall be integrated into the classroom microphones and the teacher web screen.
34. The system shall be capable of displaying on the map the location of the alert in the case of a microphone that is within range of its paired receiver, or from the teacher's web access screen. The system shall also be capable of approximately locating the location of the alert in the case of a microphone that is not in range of its paired receiver. A system, either the microphone system, or the administrative system that is not capable of receiving an alert from a microphone that is not within range of its paired receiver shall not be considered.
35. Upon alert, the system shall have the ability to provide notification on the dedicated console at the front office, or on any other computer which is currently logged into the administrative interface and has the appropriate credentials. The system shall provide both an audible tone, and a change on the screen that clearly indicates that an emergency alert has been received.
36. Upon alert, the system shall also be capable of sending e-mail and SMS Text messages to the designated school personnel. These alerts shall include a web link to the administrative console.
37. If cameras are installed in the classrooms, the system shall be capable of showing a live video from the classroom that received an alert. This shall only be shown in the case of an alert where the microphone is within range of its paired receiver.
38. The system shall have the ability to acknowledge the receipt of the alert by changing the indicators on the classroom microphone receiver in the room where the alert was received from. In the case of an alert received from a microphone not in range of its paired receiver, no acknowledgement shall be sent.
39. The system shall have the capability of maintaining a record of all alerts that are received and provide appropriate school personnel with the capability to enter information about the alert, which shall be maintained in the systems database. That information shall also be made available to appropriate school personnel in the form of a report that shows all alerts that have occurred, their date, time, and the end alert information.
40. The system shall contain a rules-based integration engine that allows for input of TCP, HTTP, or Serial Data and allows for the parsing of data for actions or triggering other systems via TCP, HTTP or Serial.
41. The system shall support digital message displays that provide visual feedback in the form of scrolling messages via an LCD or LED display all controlled from the network.
42. The system shall allow for integration into the classroom audio system including teacher microphone as required by design. This includes integration to ensure that system notifications, pages and intercom calls take priority over classroom audio sources.
43. The system must include perpetual licensing and include all in version software upgrades at no additional cost.
44. The base functionality of the system including the map interface, intercom, paging, bells, classroom audio control, SAFE System and Event engine must be part of the base licensing of the product and not require additional licensing.
45. The system shall have the ability to control signage displays for display of clocks, messages, digital signage, countdown timers as well as allow for automated messages to be displayed automatically for notifications.
46. The system will allow for the building of clock signs, message signs as and notifications signs using the HTML interface allowing for using predefined templates and assets.
47. Clocks and emergency signs shall be a onetime perpetual license.
48. Server software shall require end user to create complex unique passwords for each system on first use. Systems that allow for generic or repeated passwords will not be acceptable.
49. System shall utilize a visual based event editor to define custom actions, inputs and outputs.
50. System shall support connection to District View Server for centralized management and licensing and services must be included as part of the system to support that connection, integration and programming.

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B. INTERCOM PAGING SYSTEM NETWORK INTERCOM INTERFACE:

1. Shall allow users to install intercom paging systems spanning multiple building or facilities connected through a VLAN.
2. Network Requirements:
 - a. 100/1000 Ethernet switch port configured on a dedicated VLAN.
 - b. Systems requiring a specific network or subnet size are not allowable.

C. INTERCOM PAGING SYSTEM POWER:

1. All Network interfaces used in the classroom and for the common zones shall be powered via PoE from the district provided network switches.
 - a. PoE switches and network cabling from MDF (Main Distribution Frame) and IDF (Intermediate Distribution Frame) to devices provided by others.
 - b. All network switches shall include an uninterruptable power source to provide adequate runtime. In the event the school has a generator the UPS systems shall hold the switches long enough until generator power can be provided. Customer to provide all necessary UPS for network switches

D. APC SMART-UPS 1000VA, RACK MOUNT, LCD 120V WITH SMARTCONNECT PORT:

1. Output
 - a. Output power capacity - 700 Watts / 1.0kVA
 - b. Max Configurable Power (Watts) - 700 Watts / 1.0kVA
 - c. Nominal Output Voltage - 120V
 - d. Output Voltage - Distortion Less than 5 %
 - e. Output Frequency - (sync to mains) 50/60 Hz +/- 3 Hz Sync to mains Other
 - f. Output Voltages - 110, 125 Load Crest Factor 3 : 1
 - g. Topology Line - interactive
 - h. Waveform type - Sine wave
 - i. Output Connections - (6) NEMA 5-15R
 - j. Transfer Time- 6 ms typical : 10 ms maximum
2. Input
 - a. Nominal Input Voltage 120V
 - b. Input frequency 50/60 Hz +/- 3 Hz
 - c. Auto-sensing Input
 - d. Connections NEMA 5-15P
 - e. Cord Length 8.01ft (2.4meters)
 - f. Input voltage range for main operations 75 - 154 Adjustable, 82 - 144V
 - g. Number of Power Cords 1
 - h. Other Input Voltages 110, 125
3. Batteries & Runtime
 - a. Battery type Lead-acid battery
 - b. Typical recharge time 3hour(s)
 - c. Replacement Battery APCRBC157
 - d. Expected Battery Life (years) 4 - 6
 - e. RBC Quantity 1
 - f. Battery Charge Power (Watts) 112 Watts
 - g. Runtime
 - i. View Runtime Graph (Available in Technical Tab on site)
 - ii. View Runtime Chart (Available in Technical Tab on site)
 - h. Efficiency View Efficiency Graph (Available in Technical Tab on site)
4. Communications & Management
 - a. Interface Port(s) RJ-45 Serial, SmartSlot, USB
 - b. Control panel Multifunction LCD status and control console
 - c. Audible Alarm when on battery : distinctive low battery alarm : configurable delays
 - d. Available SmartSlot™ Interface Quantity 1
5. Surge Protection and Filtering
 - a. Surge energy rating 680Joules

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- b. Filtering Full time multi-pole noise filtering : 0.3% IEEE surge let-through : zero clamping response time : meets UL 1449
- 6. Physical
 - a. Maximum Height 3.39inches (86MM, 8.6CM)
 - b. Maximum Width 17.01inches (432MM, 43.2CM)
 - c. Maximum Depth 18.78inches (477MM, 47.7CM)
 - d. Rack Height 2U

E.APC SMART-UPS 1000VA, RACK MOUNT, LCD 120V WITH SMARTCONNECT PORT:

- 1. Output
 - a. Output power capacity - 700 Watts / 1.0kVA
 - b. Max Configurable Power (Watts) - 700 Watts / 1.0kVA
 - c. Nominal Output Voltage - 120V
 - d. Output Voltage - Distortion Less than 5 %
 - e. Output Frequency - (sync to mains) 50/60 Hz +/- 3 Hz Sync to mains Other
 - f. Output Voltages - 110, 125 Load Crest Factor 3 : 1
 - g. Topology Line - interactive
 - h. Waveform type - Sine wave
 - i. Output Connections - (6) NEMA 5-15R
 - j. Transfer Time- 6 ms typical : 10 ms maximum
- 2. Input
 - a. Nominal Input Voltage 120V
 - b. Input frequency 50/60 Hz +/- 3 Hz
 - c. Auto-sensing Input
 - d. Connections NEMA 5-15P
 - e. Cord Length 8.01ft (2.4meters)
 - f. Input voltage range for main operations 75 - 154 Adjustable, 82 - 144V
 - g. Number of Power Cords 1
 - h. Other Input Voltages 110, 125
- 3. Batteries & Runtime
 - a. Battery type Lead-acid battery
 - b. Typical recharge time 3hour(s)
 - c. Replacement Battery APCRBC157
 - d. Expected Battery Life (years) 4 - 6
 - e. RBC Quantity 1
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 - b. Control panel Multifunction LCD status and control console
 - c. Audible Alarm when on battery : distinctive low battery alarm : configurable delays
 - d. Available SmartSlot™ Interface Quantity 1
- 5. Surge Protection and Filtering
 - a. Surge energy rating 680Joules
 - b. Filtering Full time multi-pole noise filtering : 0.3% IEEE surge let-through : zero clamping response time : meets UL 1449
- 6. Physical
 - a. Maximum Height 3.39inches (86MM, 8.6CM)
 - b. Maximum Width 17.01inches (432MM, 43.2CM)
 - c. Maximum Depth 18.78inches (477MM, 47.7CM)
 - d. Rack Height 2U

F.COMMON ZONE AMPLIFIERS:

- 1. CSA-1300Z & CSA-2300Z
 - a. 1 or 2 Channels x 300W output

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- b. Built-in 70V and 100V
 - c. Space-saving 2 RU design
 - d. Sleep mode disable function
 - e. Energy-efficient amplifier
 - f. Sleek industrial look with illuminated rings making knobs easy to see and use
 - g. Supports JBL CSR-V wall controller via CAT5 cable with RJ45 connectors
 - h. Euro-block style input connectors, barrier strip output connectors
 - i. Independent Bass and Treble controls for each output channel
 - j. Capable of RS232 control of volume, mute and sleep mode
 - k. Insertion Loss (70V & 100V outputs) 1 dB maximum
 - l. Input Sensitivity (8 Ω Load)
 - i. Balanced line input: 775mVRMS
 - ii. RCA Mono Sum input: 300mV RMS
 - m. Total Harmonic Distortion (THD) (@ Full rated power, 20Hz-20kHz) <0.5%
 - n. Signal-to-Noise Ratio (Ref. rated output, 22KHz BW, A-weighted) 97dB
 - o. Input Impedance (nominal) Euro Block: 20 k Ω (balanced); RCA: 10 k Ω
 - p. Maximum Input Level +22dBu (Nominal)
 - q. Crosstalk (Ref. rated power, A-weighted, 1kHz) <-70 dB
 - r. Tone Controls (Bass and Treble non-detented potentiometers on each channel) Bass +/- 12dB @100Hz Treble +/-12dB @10kHz
 - s. Nominal AC Line Voltages 100V, 120V, 220V, 230-240V, 50/60 Hz
 - t. Minimum Load Impedance
 - i. Low-Z Output 4 Ω
 - ii. 70V Output 12 Ω
 - iii. 100V Output 24 Ω
 - u. Operating Temperature/Humidity 0°C to 35°C @ 95% R.H. (non-condensing)
 - v. Storage Temperature -20°C to 85°C
2. CSA-180Z_280Z_1120Z_2120Z
- a. 1 or 2 Channels x 300W output
 - b. Built-in 70V and 100V
 - c. Space-saving 1 RU design
 - d. Sleep mode disable function
 - e. Energy-efficient amplifier
 - f. Sleek industrial look with illuminated rings making knobs easy to see and use
 - g. Supports JBL CSR-V wall controller via CAT5 cable with RJ45 connectors
 - h. Euro-block style input connectors, barrier strip output connectors
 - i. Model Specifications
- | | | Power | Output Channels |
|------|----------|-------|-----------------|
| i. | CSA140Z | 40W | 1 |
| ii. | CSA180Z | 80W | 1 |
| iii. | CSA1120Z | 120W | 1 |
| iv. | CSA240Z | 40W | 2 |
| v. | CSA280Z | 80W | 2 |
| vi. | CSA2120Z | 120W | 2 |

G. INTERCOM PAGING SYSTEM ADMINISTRATIVE KIOSK:

- 1. The administrative Kiosk shall be customizable, flexible and provide full access to the intercom paging system.
- 2. Kiosk shall be embed Android OS into the touch screen and only display the intercom interface.
- 3. The supplier is required to provide a dedicated touch screen Kiosk for the front office, with a minimum size of 22" Diagonally. The Kiosk shall not require the district to provide any additional hardware, software or licensing. The Kiosk shall also provide a boom microphone attached to the screen that wires directly to the Kiosk.
- 4. Administrative access to the system shall be browser based and shall also be capable of being any administrative computer.
- 5. Functionality to provide full access to all features such as all call, paging groups, emergency tones, control music, WAV file distribution, test rooms, crisis mode, schedules, etc.

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H. NETWORK PAGING INTERFACE

1. Provide a Network Interface with performance as follows:
 - a. Full-Duplex, Hands Free communications on Intercom Call
 - b. Amplifier powered only by the PoE power source for emergency paging applications
 - c. Mounting Bracket as required
 - d. Connections – The following connections shall be available:
 - a. Line Output for connecting to auxiliary amplifiers
 - b. 2 External I/O Connections – Terminal Block
 1. Ability to support relay output for interface into other systems.
 - c. RJ45 for PoE Network Connection
 - d. Serial interface for connecting to other equipment or SAFE Compatible equipment.
 - e. 1 speaker connection
 - a. The system shall provide a speaker connection which is powered exclusively by the PoE power from the network
 - b. Can power up to 2 speakers per device.
 - f. Network Connection
 - a. The system shall have a network connection with PoE power.
 - b. PoE shall be present on the system to provide power for the amplifier during a power emergency.
 - c. Shall support LLDP-MED for two level 802.3 power negotiation and device information.
2. Integrated Network Based Communications
 - a. The System shall support the following protocols:
 1. Directed UDP (User Datagram Protocol)
 2. Unicast Audio
 3. Multicast Audio
 4. SIP
 5. TCP Control
 - b. Integrated Serial Tunnel over TCP
 - c. The system shall have integrated SIP communications and be able to communication bi-directionally with any VoIP communications system that follows the standard SIP protocols.
 - d. The system shall also have the ability to operate with multi-cast IP messages as well.
 - e. Serial Gateway for Control via the network

I. MS-320 NETWORK INTERFACE FOR 2-WAY INTERCOM -AUDIO ENHANCEMENT:

1. Line Input - Internal Network Audio Line
2. Outputs - 1 Unbalanced (3.5 mm) output
3. Minimum Load Impedance - 4 Ohms
4. Amplifier Type - 92% Efficient Class D for network audio only
5. Continuous Power @ 1% THD - 25 Watts powered by PoE†
6. S/N - >89 dB @ 20 Hz to 20 kHz at maximum output
7. Protection Circuits - Thermal and short circuit protected
8. PA Connector - Connects to public address system and mutes amplifier during announcements
9. Input Voltage - 4.0 Volts RMS to 74 Volts RMS
 - b. Control Port - RS-232, 3-pin screw terminal block header, RJ45 remote control port
10. RS-232 communication port
11. Intercom call, emergency alert, room microphone wall plate port (WPA-50x)
12. Input/output (I/O) aux port for sense, strobe, etc.
13. Power Supply - PoE + 802.3af/at†
14. Temperature/Humidity
 - a. Storage: -40 to 158°F (-400 to +700°C) 10-90% non-condensing
 - b. Operating: -32-122°F (0 to +500°C) / 10-90%
15. Enclosure Type - Metal
16. Ethernet I/F - 10/100 Mbps
17. Power Input (Network) - PoE 802.3af/at†
18. Operating Temperature - 14 F to 122°F (-100C to 500C)

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19. Protocols
 - a. SIP RFC 3261 compatible
 - b. UDP Directed Broadcast
 - c. Multi-cast and VoIP enabled
 20. Lineout Output Signal Amplitudes - 2.0 VPP maximum
 21. Output Level - +2 dBm nominal
 22. Total Harmonic Distortion - 0.5% maximum
 23. Weight 1.3 lbs (589.67 g)
 24. Dimensions 1.125 (H) x 9.19(W) x 3.56 (D) in. (28.57 x 233.43 x 90.42 mm)
- J. MS-375 NETWORK INTERFACE SAFE ALERT EXTENDER AND 2-WAY INTERCOM-AUDIO ENHANCEMENT:**
1. Line Input - Internal Network Audio
 2. Line Outputs - 1 Unbalanced (3.5 mm) output
 3. Minimum Load Impedance - 4 Ohms
 4. Amplifier Type - 92% Efficient Class D for network audio only
 5. Continuous Power @ 1% THD - 25 Watts powered by PoE†
 6. S/N - >89 dB @ 20 Hz to 20 kHz at maximum output
 7. Protection Circuits - Thermal and short circuit protected
 8. PA Connector - Connects to public address system and mutes amplifier during announcements
 9. Input Voltage: 4.0 Volts RMS to 74 Volts RMS
 10. Control Port - RS-232, 3-pin screw terminal block header, RJ45 remote control port
 - a. RS-232 communication port
 - b. Intercom call, emergency alert, room microphone wall plate port (WPA-50x)
 - c. Input/output (I/O) aux port for sense, strobe, etc.
 11. Power Supply - PoE + 802.3af/at†
 12. Temperature/Humidity
 - a. Storage: -40 to 1580F (-400 to +700C) 10-90% non-condensing
 - b. Operating: -32-1220F (0 to +500C) / 10-90%
 13. Enclosure Type - Metal
 14. Ethernet I/F - 10/100 Mbps
 15. Power Input (Network) - PoE 802.3af/at†
 16. Operating Temperature - 14 F to 1220F (-100C to 500C)
 17. Protocols
 - a. SIP RFC 3261 compatible
 - b. UDP Directed Broadcast
 - c. Multi-cast and VoIP enabled
 18. Lineout: Output Signal Amplitudes 2.0 VPP maximum
 19. Output Level +2 dBm nominal
 20. Total Harmonic Distortion 0.5% maximum
 21. Weight 1.3 lbs (589.67 g)
 22. Dimensions 1.125 (H) x 9.19(W) x 3.56 (D) in. (28.57 x 233.43 x 90.42 mm) MS-375 Specifications*
 23. Integrated XD Receiver Specifications
 - a. System Frequency - XD Technology 1.9 GHz
 - b. Coverage - Adjustable for optimal coverage from small classrooms to cafes, gyms, and other large spaces
 - c. Microphone Type - Unidirectional electret condenser microphone
 - d. Auxiliary Input Line level 35 stereo mini jack (monaural mix)
 - e. Power Requirement - 24 VDC @ 130 mA Temperature Range 32 F - 104 F (0 C - 40 C)
- K. INTERACTIVE AUDIO INSTRUCTION-INTERFACE FOR FRONT OFFICE:**
1. The program distribution panel shall provide inputs for audio signals from radios, MP3 players, CD players, etc.
 2. The program distribution panel shall permit adjusting the volume of each source and monitoring of the source at the panel.
 3. The program distribution panel shall be equipped with a 7" capacitive touch screen interface that provides control of the sources, and streaming functions into the paging system. 800X480 Resolution.

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4. The program distribution panel shall provide Bluetooth® connectivity from a source device
5. Two Line Level 3.5mm inputs
6. Two Line Level 3.5mm outputs
7. Powered via USB C
8. Gigabit Ethernet Connectivity
9. Delivers audio on demand or on schedule to MS-300/MS-500 Devices on Network from inputs within the unit including line level, preloaded, and Bluetooth.
10. Can be scheduled and controlled as part of bell schedule within the EPIC system.

L. ANALOG INTERCOM SYSTEM CABLING:

1. West Penn
2. Belden
3. General Cable
4. Mohawk
5. Accepted substitute

M. INTERCOM PAGING SYSTEM VOLUME CONTROL:

1. Volume control shall be capable of controlling the volume of up to one hundred-fifty (150) 1-way speakers.
2. Volume control shall be mounted on a brushed stainless-steel single gang wall plate with the plate being embossed with a dial scale of “0 through 10.”
3. Volume control shall be equipped with a skirted black knob with white position indicator.
4. Volume control shall include a stainless-steel mounting box and hardware.

N. INTERCOM PAGING SYSTEM CEILING SPEAKER:

1. Ceiling Speaker Specifications
 - a. Lay-in ceiling speaker shall consist of a white 13.5” grill, a speaker and integral back box or equivalent ceiling speaker with appropriate backbox, grille and tile bridge.
 - b. Integrated 25/70/100V Transformer with tap settings accessible without disassembling speaker from 1.25W to 15W or 8Ohm bypass.
 - c. The speaker shall be capable of handling minimum 50 watts continuous power.
 - d. Sound pressure level at 1 meter on axis with a 1-Watt input shall be 96 dB.
 - e. The frequency response shall be 86 Hz to 16 kHz.
 - f. The baffle shall be constructed with a single piece of perforated steel with a white baked on acrylic enamel finish.
 - g. Shall support seismic cabling from 3 points.
 - h. The back box shall meet or exceeds UL 2043 for installation in a plenum space
 - i. Approximate weight shall be 7.1 lbs. (2.49 kg).
 - j. Basis of Design Audio Enhancement SP-0300.

O. INTERIOR INTERCOM PAGING SYSTEM SURFACE WALL SPEAKER:

1. Wall speaker shall consist of a speaker and matched surface mount enclosure.
2. The speaker, housing and hardware shall be electrically and acoustically matched for a frequency response of 65 Hz to 17 kHz.
3. The speaker shall be 8” (20.32 cm) in diameter. and have a ceramic magnet weighing 4.8 ounces.
4. Average sensitivity 92dB SPL, 1W/1M.
5. Maximum output shall be 99dB.
6. The baffle shall be constructed of 22-gauge steel with white baked hybrid epoxy.
7. Maximum dimensions of the housing shall be 11 5/8” square and 4 1/8” deep.

P. INTERCOM PAGING SYSTEM PAGING HORN:

1. The paging horn shall be a weather-resistant, high efficiency reentrant type horn speaker.
2. The paging horn shall be equipped with an amplifier and externally accessible volume control.
3. The paging horn shall include an adjustable swivel base.
4. The frequency response shall be 275 Hz to 14 kHz.
5. Dispersion shall be 90° horizontal and 90° vertical.
6. Sound pressure level shall be 121 dB measured at 4 feet (1.22 m) on axis with an input to the amplifier module being -10 dBm at 1 kHz.
7. Distortion shall be less than 2.0% at rated output of 15 watts RMS.

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8. Input impedance shall be 600 ohms nominal.
9. The amplifier shall operate on a -24 Vdc nominal, positive ground power supply.
10. Operating current shall be 900 mA at -24Vdc
11. Operating temperature shall be -20 to 55 °C (-4 to 131 °F).
12. Operating humidity shall be 0-95% noncondensing.
13. Dimension of the horn shall be 8" (20.3 cm) W x 8" (20.3 cm) H x 9" (22.9 cm) D.
14. Approximate weight shall be 4.0 lbs (1.8 kg).

Q. INTERCOM PAGING SYSTEM VOLUME CONTROL:

1. The volume control must support a rotary selector switch with 11 positions.
2. Volume control shall be white in color and be sized to fit a decora style plate.
3. Inputs on control shall support incoming 25/70V signal on both the + and – with outgoing signal on + and -. Support for up to 12 AWG Wire.
4. 25W RMS
5. Basis of Design EPIC-V70v

R. CLASSROOM SOUND AMPLIFICATION SYSTEM (CSAS) EQUIPMENT: OPTIMUM AMPLIFIER WITH INTEGRATED XD RECEIVER:

1. Provide a fully PoE Powered Receiver/Amplifier with ability to provide functions described above with performance as follows:
 - a. Audio Power: 30 watts RMS mains powered amplifier
 - b. 92% Efficient Class D Amplifier
 - c. 1% percent THD across full frequency range of amplifier
 - d. Frequency Response: 20 Hz to 20 kHz
 - e. Power Requirements: PoE 802.3af/at 25.5W Maximum
 - f. Shall support LLDP-MED for two level 802.3 power negotiation and device information.
 - g. Signal-to-noise: >89dB
 - h. Integrated mounting tabs
 - i. Thermal and short circuited protected
 - j. Integrated XD Receiver Port
2. Controls:
 - a. The primary control of the system shall be done through the teacher microphone.
 - b. The following functions shall be available via USB connection for setup during installation:
 - i. Input Control for multi-media sources and mixed XD source
 - ii. Equalizer Controls
 - a. 5 Band Digital Equalizer
 - iii. Discreet Output volume controls for each input
 - c. RS-232 Control
 - i. Provide RS-232 control of the amplifier, and an additional RS-232 port which provides pass through control of a downstream device such as a projector
 - ii. RS-232 processor shall be capable of differentiating between commands destined for the amplifier, and responding to those commands, and commands intended for the downstream and passing those commands through to the secondary RS-232 port
 - iii. Command pass through shall be bi-directional
 - d. Connections – The following connections shall be available:
 - i. Four (4) Multi-Media inputs
 - ii. Dedicated Line output – for Assistive Listening Device Connection
 - iii. Color Coded Connection
 - iv. Ethernet Connection (8P8C RJ45 with PoE Power)
 - v. 8P8C RJ45 Connection for Intercom Paging Wall plate
 - vi. Support for Touch Based Wall Controller on Remote Port
 - vii. General Purpose I/O Output on 8P8C RJ45
3. Integrated DECT Technology RF Receiver The Receiver shall utilize DECT technology. DECT is a radio technology for voice applications. DECT is ideal for the classroom because the use of both frequency and time domain is ideally suited to smaller areas with a large number of users. In each classroom, it will be an independent system, with all necessary electronics to support the receiving & pairing functionality mounted on the wall near the amplifier or in the ceiling. The receiver will be connected to the amplifier through a universal twisted pair cable, using balanced audio

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connections. Power for the receiver shall be provided through the same cable as the balanced audio connections.

- a. The receiver shall provide the following functionality. These features shall be included on board the receiver, and not require any external support to perform these functions.
 - i. Three Channel DECT based reception
 - ii. Pairing Button for Linking microphone to the receiver
 - iii. Remote control of all three microphone channels
 - iv. Advanced Feedback Blocker
 - a. The system shall have the ability to actively control feedback. This shall be done via an analog circuit that provides up to five active filters to control specific frequencies,
 - b. The Feedback Blocker shall also have the ability to lower the overall of the system by up to 6dB, during a user error situation where the overall system gain is manually turned up too high
 - c. The Feedback Blocker system shall automatically remove the filtering upon resolution of the user-initiated error condition
 1. The Feedback Blocker shall be of an analog design – in order to avoid the detrimental effects of digital sampling, only analog systems shall be considered in order to implement this feature.
 - v. Emergency Alert Function
 - a. The system shall provide a trigger signal when the teacher presses and holds a button on her transmitter for more than two (2) seconds.
 - b. The system shall be capable of providing a visual indication of three (3) red LED's when the teacher initiates a trigger signal
 - c. The system shall also be capable of receiving a trigger acknowledgement signal back from an external source, and altering the visual indicator from three (3) red LED's to two (2) Green and one (1) red LED
 - vi. Recording Function
 - a. The system shall provide for a secondary notification that can be used for future applications such as signaling an NDVR (Network Digital Video Recorder) to start a recording
 - vii. Control System Integration
 - a. The system shall have on board the capability of being controlled via RS-232 protocol.
 - b. The system shall also have the capability of broadcasting RS-232 commands when the teacher presses the up/down volume controls on their microphone
 1. Power Requirements: Integrated power from PoE, receivers requiring secondary power not allowable.
 2. Operating Frequency – 1.9 GHz Band
 - viii. Receiver Type: DECT
 - a. Controls: System shall have available the following controls
 1. Channel 1 Volume Control – Fully controllable from the teacher microphone remotely through the DECT system
 2. Channel 2 Volume Control – Fully controllable from the teacher microphone remotely through the DECT system
 3. Auxiliary Input Volume Control – Fully controllable from the teacher microphone remotely through the DECT system
 4. Alert Controls on Teacher Microphone – Two (2) buttons on the sides of the microphone
 5. Recording Control on Teacher Microphone – One (1) button on the front of the microphone

S. TEACHER BODY PACK TRANSMITTER STD-14:

1. Provide a body pack transmitter with performance as follows:
 - a. Operating frequency – 1.9 GHz – DECT
 - b. Audio distortion: <1.0% (±40kHz deviation @ 1kHz)
 - c. Integrated microphone
 - d. Internal charger circuit
 - e. Micro USB Charging Port – shall be capable of being charged from a standard USB port –

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- including a port on a computer
- f. Power button functionality
- g. Power on – turns the microphone on when microphone is off, and button is pressed
- h. Mute – mutes the microphone when pressed and released once microphone is turned on
- i. Power Off – push and hold to turn power off
- 2. Additional Function (F) Button Features
 - a. SAFE Alert Functionality – Provides security alert when the two (2) buttons on the sides of the microphone are pressed and held for more than two (2) seconds
 - b. Recording Functionality – Provides simple logic signal when the REC button is pressed on the face of the microphone which activates terminals on the receiver
- 3. External Inputs
 - a. Provide an input for an external microphone
 - b. Provide an input for a stereo auxiliary input (Mixed to Mono in microphone)
- 4. Microphone Element – The teacher microphone shall utilize a 10mm microphone element to insure optimum frequency response and maximum pickup of teacher's voice.
- 5. Power 1 - LiON Long Life Battery (Systems using two (2) batteries will not be considered)
 - a. Battery style shall be common between handheld microphone and teacher transmitter. Systems that use different batteries in the handheld vs teacher microphone shall not be considered.
- 6. Provide remote volume control for the system from the teacher's transmitter
 - a. Volume control via the wireless microphone system to allow the teachers to remotely adjust their own volume level.
 - b. Volume control for the other channel from the teacher's microphone
 - c. Volume control for the auxiliary inputs from the teacher's microphone
 - d. Side Alert Buttons – Provide remote control functionality that allows for enabling additional multi-use functions from the teacher microphone.
 - e. REC Button – Provide a button on the face of the microphone that can be used for multiple purposes.

T. STUDENT HANDHELD TRANSMITTER:

- 1. Operating frequency – 1.9 GHz - DECT
- 2. Integrated microphone
- 3. Internal charger circuit.
- 4. Micro USB Charging Port – must be capable of being charged from a standard USB port – including a port on a computer
 - a. 1/8" (3.5mm) auxiliary input connection - Provide an input for a stereo auxiliary input (Mixed to Mono in microphone)
- 5. Power 1 - LiON Long Life Battery (Systems using two (2) batteries will not be considered)
- 6. Battery style must be common between handheld microphone and teacher transmitter. Systems that use different batteries in the handheld vs teacher microphone will not be considered.
- 7. Operational Modes – the handheld microphone must be equipped with two operational modes
 - a. Push-to-Talk Mode – the user simply depressed the power button to talk, and when released the microphone automatically turns off – this provides for a number of separate microphones to be used consecutively and greatly reduces the chance of channel interference
 - b. Power-On Mode – The user depresses the power button, and slide is vertically into the on position – this holds the microphone in the on state for continuous operation
 - c. Microphone Element – The Handheld microphone shall utilize a 10mm microphone element to insure optimum frequency response and maximum pickup of teacher's voice.

U. MIC360:

- 1. Light, Soft, Durable Foam Ball, Designed to stand up to daily classroom use
 - a. Automatically mutes microphone when ball is thrown
 - b. Microphone can be charged while still in the ball
 - c. Microphone mutes when still for more than two minutes
 - d. Microphone turns off when charging and turns back on automatically
- 2. Operating frequency – 1.9 GHz – DECT
- 3. Audio distortion: <1.0% (±40kHz deviation @ 1kHz)
- 4. Unidirectional electret condenser microphone

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5. Internal charger circuit
6. Micro USB Charging Port – shall be capable of being charged from a standard USB port – including a port on a computer
7. Power button functionality
8. Power on – turns the microphone on when microphone is off and button is pressed
9. Mute – mutes the microphone when pressed and released once microphone is turned on
10. Power Off – push and hold to turn power off
11. Dimensions – 8 in Diameter (20.3cm)

V. CLASSROOM SPEAKER PERFORMANCE SPECIFICATIONS

- a. 1' x 2' Lay in style speaker
- b. Vented Enclosure
- c. 8 Ohm Nominal, 50W Continuous Pink Noise
- d. Sensitivity - 88 dB (1W/1M)
- e. Frequency Response 70 Hz - 15 kHz (-10 dB) 100 Hz - 14 kHz +/-2 dB
- f. Speaker back can meets UL2043 criteria for plenum installation.
- g. Depth not to exceed 3.75"
2. WS-09
 - a. Surface Mounted Speaker with Integrated U style Bracket
 - b. 2-Way system with vented enclosure
 - c. 8 Ohms nominal
 - d. 88 dB 1 Watt/1 meter
 - e. Frequency Response 80 Hz to 20 kHz +/-2dB
3. FS-21
 - a. 2' x 2' Lay in style speaker
 - b. Vented Enclosure
 - c. 8 Ohm Nominal, 50W Continuous Pink Noise
 - d. Sensitivity - 88 dB (1W/1M)
 - e. Frequency Response 70 Hz - 15 kHz (-10 dB) 100 Hz - 14 kHz +/-2 dB
 - f. Speaker back can meets UL2043 criteria for plenum installation.
 - g. Depth not to exceed 3.75"
4. CS-12
 - a. 7" Tile Cut in Speaker
 - b. Spring loaded mounting tabs
 - c. Vented Enclosure
 - d. 8 Ohm Nominal, 50W Continuous Pink Noise
 - e. Sensitivity - 88 dB (1W/1M)
 - f. Frequency Response 70 Hz - 15 kHz (-10 dB) 100 Hz - 14 kHz +/-2 dB
 - g. Speaker back can meets UL2043 criteria for plenum installation.
 - h. Depth not to exceed 5.8"

W. CLASSROOM INTERCOM WALL PLATES WPA-701 - 705

1. Wall plates expand the communication between classrooms and the office.
 - a. WPA-701
 - i. Microphone
 - b. WPA-702
 - i. Microphone
 - ii. Green Button for Intercom Call
 - iii. Red button to Initiate an Emergency Alert
 - c. WPA-704
 - i. Microphone
 - ii. Green Button for Intercom Call
 - d. WPA-705
 - i. Red button to Initiate an Emergency Alert
2. Reference technology floor plans for device locations
3. Single gang decora style wall plate
4. 8P8C (RJ45) connection
5. Matching white decora style face plate

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X. GRANDSTREAM IP Phone

1. 320x240 TFT color LCD 3 dual-color line keys (with 3 SIP accounts)
2. 4 programmable context- sensitive soft keys
3. up to 4-way conferencing
4. 8 dual-color BLF extension keys
5. Dual switched auto-sensing 10/100/1000Mbps Gigabit network ports, PoE, EHS (Electronic Hook-Switch) with Plantronics headsets
6. Automated provisioning using TR-069 or AES encrypted XML configuration file, TLS/SRTP/HTTPS for advanced security and privacy protection
7. Integrated real-time web applications [weather, currency, etc.]
8. Protocols/Standards: SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, TELNET, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPv6
9. Voice Codecs: Support for G.729A/B, G.711 μ /a-law, G.726, G.722 (wide-band), in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)
10. Upgrade Provisioning: Firmware upgrade via TFTP/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file

Y. INSTRUCTIONAL RECORDING, STORAGE, AND SHARING SYSTEM (VIEWPATH SYSTEM):

1. Integrates into System
 - a. User Administration and roles via LDAP
 - b. Camera Administration and Configuration including automated configuration.
 - c. Camera Control and Scheduling through VIEWpath Intercom interface.
2. System Supports on Camera Recording with local camera storage.
3. Camera recording can be a single view PTZ, a quad view PTZ or a Double Panoramic of the Room.
4. System supports use of setting and recalling presets for camera views.
5. Supports a selectable line in or camera mic for audio Recording.
6. Supports REC button on mic to initiate recordings.
7. Supports recording of the desktop from a native browser plug in. Desktop recording is synced with camera and uploads as a single object to the Cloud System.
8. Server provides a transfer mechanism from camera recordings to the cloud.
9. Server supports bandwidth and upload management.
10. Utilizes Unlimited Cloud Based Storage
11. Allows for sharing of Videos through the platform
12. Supports live view of Camera natively in browser with no plug ins required.
13. Supports click and drag PTZ movements live on camera image.

Z. CLASSROOM VIDEO CAMERA FOR ALERTS AND INSTRUCTIONAL RECORDING:

1. 2MP MOS Sensor
2. 31X Optical Zoom, digital zoom not allowed.
3. Multiple H.264 and H.265 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high-resolution recording by enhanced.
4. AAC Audio Encoding Required
5. Audio input from classroom audio system with enhanced circuitry for control.
6. Support for ambient mic function.
7. PTZ Function Controllable from Teacher Web Interface with support for presets.
8. Auto Tracking function with teacher control for on/off from web interface.
9. ONVIF Support
10. SD Recording supported and controllable from VIEWpath system.
11. Ceiling and wall mountable.

AA. 360 CAMERA:

- a. 12MP CMOS Sensor
- b. Network Based Camera with PoE Power
- c. 360 Degree lens, 183V° X 183H° viewing angle.
- d. Privacy Mode via Teacher Interface
- e. Multiple H.264 and H.265 (High profile) streams and JPEG streams ensure simultaneous real

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- time monitoring and high-resolution recording by enhanced.
- f. AAC Audio Encoding Required
- g. Audio input from classroom audio system with enhanced circuitry for control.
- h. Support for ambient mic function.
- i. ePTZ Function Controllable from Teacher Web Interface with support for presets.
- j. Auto Tracking function with teacher control for on/off from web interface.
- k. ONVIF Support
- l. SD Recording supported and controllable from VIEWpath system in both H.265 and H.264 formats.
- m. Ceiling and wall mountable.

V. Specification Basic of Design:

Unless otherwise specified, the specifications are intended to be non-proprietary, and should be construed as such; catalog numbers, brand names, or manufacturer product or reference numbers used in the item specifications in this Proposal Invitation are intended to be descriptive, not restrictive. These references, as well as any approved brands and/or models listed, are intended to identify and indicate the type of product being sought and establish the level of quality desired. If any conflict exists in the item specifications between the product descriptions and any brand names or model or reference numbers used, the product descriptions will override the brand names or model number references.

VI. Evaluation:

The contract, if awarded, will be awarded to the most responsive and responsible bidder. Technology equipment bids will be evaluated based upon equipment specifications, flexibility of schedule, capacity to deliver, references and price. Product quality, service issues and other factors stipulated above must be met to the satisfaction of the Board for a bid to be considered responsive. Consequently, if the selected bidder is unable to execute a contract and provide delivery within the time parameters specified in this RFB the Board will award the contract to the next most qualified bidder. In determining the best value, the following criteria shall be considered:

Proposal Price	40 points
Production/Inventory/Delivery	25 points
Device Compatibility	15 points
LDAP Integration	5 points
Organization Strength (experience)	5 points
Organizational References	5 points
Customers in Mississippi	5 points

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REFERENCE SHEET
DUE: 03/15/2024 @ 1:00 p.m.

Reference 1

Company Name: _____

Address: _____

Contact Name: _____

Contact Phone: _____

Contact Email: _____

Type of Work/Service Performed: _____

Reference 2

Company Name: _____

Address: _____

Contact Name: _____

Contact Phone: _____

Contact Email: _____

Type of Work/Service Performed: _____

Reference 3

Company Name: _____

Address: _____

Contact Name: _____

Contact Phone: _____

Contact Email: _____

Type of Work/Service Performed: _____

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VII. Interpretation/Addenda:

If any questions should arise pertaining to the Bid/RFB Documents, the bidders may email Roger Gaudet at Roger.Gaudet@lowndes.k12.ms.us or Jeanise Andrews at Jeanise.Andrews@lowndes.k12.ms.us. please include the RFB number in the Subject line, in order to guarantee a response to the question submitted. The questions should be received prior to the deadline within the TIMELINE.

VIII. "Responsive" Bidder Criteria

- A. Capability of providing services and meeting schedule as indicated
- B. Warranties/Guarantees
- C. Ability to meet specifications/bid documents as indicated.
- D. Service and Support Capability
- E. Documented licensed as required by the State of Mississippi
- F. Applicable Bond Information
- G. Bid Amount price break down per site location by equipment, installation, and or training

IX. Cancellation/Default of Contract

In the event the successful bidder, through any cause, should fail to fulfill the agreed upon obligations in an effective and timely manner, the Board shall have the right to terminate its contract by specifying the date of termination in a written notice to the selected vendor at least thirty (30) days before that termination date. The Board also reserves the right to procure the articles or services from other sources and hold the defaulting vendor responsible for any excess cost incurred.

X. Indemnity Provisions

Where bidder is required to enter or go onto property to provide services or gather information, the bidder shall be liable for any injury (including death), damage or loss occasioned by negligence of the bidder, his agent, or any person the bidder has designated to visit Board property and shall indemnify and hold harmless the Board, its officers, employees, agents and volunteers from any liability arising. Offerors should not include an indemnity or hold harmless agreement from the Board in any proposal. The Board will not be bound by any such agreement. Board Policy provides in part: No contract, provision, agreement or term of any procurement, contract or agreement with the Board shall obligate the Board or System to indemnify, save or hold harmless any vendor for any future claim, loss, expense or liability.

XI. Errors in Bids

Bidders or their authorized representatives are expected to fully inform themselves as to conditions, requirements, and specifications before submitting bid proposals. Failure to do so will be at the bidder's own risk. The bidder may withdraw a bid prior to the bid opening date and time by requesting to do so in writing.

XII. Standards of Acceptance of Bid Proposal for Contract Award

The Board reserve the right to reject any and all bids and to waive any irregularities or technicalities in proposals received whenever such rejection or waiver is in the best interest of the Board. The Board has the right to disqualify a bid of any bidder as being unresponsive when such bidder cannot document its ability to deliver requested services or when investigation shows it is not able to perform the contract.

XIII. Compliance with Laws

The bidder shall obtain and maintain all licenses, permits, liability insurance, worker's compensation insurance and comply with any and all other standards or regulations required by Federal, State, or County statutes, ordinances and rules during the performance of any contract between the Board and the bidder. Any such requirement specifically set forth in any contract document between the bidder and the Board shall be supplementary to this section and not in substitution thereof.

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A. ALL BIDS SHALL BE:

1. Typewritten and signed by an authorized representative, with all erasures or corrections initialed and dated by the official signing the proposal. ALL SIGNATURE SPACES MUST BE SIGNED.
Facsimile, printed, copied or typewritten signatures are not acceptable.
2. All bids will be submitted electronic using the reverse auction process and submitted at www.centrauctionhouse.com refer to the reverse auction information on page 3 of this document.
3. Submitted on bid proposal forms as included in this RFB and in accordance with instructions stated above.
4. **Late bids will not be accepted.**
5. Please note that we have additional "Terms and Conditions" as Addendum I General Bid Information

R. NONDISCRIMINATION

The contractor, by the submission of a proposal or the acceptance of a contract, does agree that he/she will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor shall take appropriate action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, transfer, recruitment, layoff, termination, rates of pay or other forms of compensation and training. In the event of the contractor's noncompliance with the nondiscrimination policy of the Lowndes County School District, any contract or purchase order may be canceled, terminated or suspended in whole or in part and the contractor may be declared ineligible to transact further.

S. UTILIZATION OF MINORITY AND SMALL BUSINESS ENTERPRISES AND LOCAL AND MINORITY LABORERS

Minority and Small Business Subcontractors. Lowndes County School District will actively work toward increasing the opportunity for participation by minority business enterprises and small business concerns in all its construction projects. The Contractor agrees that it will actively solicit and encourage bids from qualified subcontractors identified by the Minority Assistance Corporation or other agencies as minority business enterprises. The Contractor shall also actively encourage and solicit bids from subcontractors who qualify as small business concerns.

Utilization of Minority and Local Labor. The Contractors and all sub-contractors shall, consistent with efficient contract performance utilize to the maximum extent possible minority and local laborers and mechanics as on-site employees. The Contractor acknowledges and agrees that the on-site labor force of contractors and all subcontractors shall include a meaningful representation of skilled and unskilled local and minority laborers and mechanics, consistent with the efficient performance of this contract. Meaningful representation for minorities means the employment of minority laborers and mechanics in at least the same proportion that minorities are represented in a discrete construction skill or craft in Mississippi and all adjacent counties, provided such individuals are available at the time of need. Meaningful representation of local laborers and mechanics means that at least 75% of the on-site work force of contractor and all subcontractors, taken as a whole, shall reside in the state of *Mississippi* provided such individuals are available at the time of need.

T. DRUG-FREE WORKPLACE

By submission of a proposal, the Offeror certifies that he/she will not engage in the unlawful manufacture, sale distribution, dispensation, possession, or use of a controlled substance or drug during the performance of the contract and that a drug-free workplace will be provided for the contractor's employees during the performance of the contract. The Offeror also certifies that he will secure from any subcontractor who works on the contract, written certification of the same drug free workplace requirements. False certification or violation by failing to carry out requirements of O.C.G.A. 50-24-3 may cause suspension, termination of contract, or debarment of such Offeror.

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U. CERTIFICATION OF NON-COLLUSION

By submitting a proposal, the Offeror certifies: “that this proposal is made without prior understanding, agreement, or connection with any corporation firm, or person submitting a proposal for the same materials, supplies, or equipment, and is in all respects fair and without collusion or fraud. That collusive pricing is understood to be a violation of State and Federal law and can result in fines, prison sentences, and civil damage awards.

V. IMMIGRATION REFORM AND CONTROL ACT

Offerors must abide by all federally mandated laws enforced by United States Department of Homeland Security which are established to verify information of newly hired employees, pursuant to the Immigration Reform and Control Act of 1986 (IRCA) P.L. 99-603), in accordance with the applicability provisions and deadlines established in O.C.G.A. 13-10-91.

W. AUTHORIZED OFFICIAL

It is agreed that all conditions of the proposal shall be abided and that the person signing this proposal is authorized to sign the proposal for the Offeror.

X. SOLICITATION TERMINATION

In any event in which this solicitation is terminated or cancelled, in whole or in part, or all proposals are rejected, there shall be no liability on the part of the Lowndes County School District for any costs incurred by Offerors or potential Offerors in relation to the solicitation.

Y. RIGHTS AND REMEDIES

The rights and remedies of the Lowndes County School District provided above shall not be exclusive and are in addition to any other rights and remedies provided by law or under the contract.

Z. INSURANCE

When the selected contractor has been identified, he will be notified of the necessity to provide required insurance. Proof of insurance shall be provided within 15 days of the date of written notification to the contractor.

AA. WORKER’S COMPENSATION AND EMPLOYER’S LIABILITY INSURANCE

The contractor shall procure and maintain Worker’s Compensation and Employer’s Liability Insurance in the following limits. Such insurance is to cover each and every employee who is or may be engaged in work under the contract.

Worker’s Compensation Limits: Statutory
Employer’s Liability Limits:

Bodily Injury by Accident	\$ 100,000 each accident
Bodily Injury by Disease	\$ 100,000 each employee
Bodily Injury by Disease	\$ 100,000 policy limit

Contractor waives all rights against Owner and its agents, officers, directors, and employees for recovery of damages to the extent these damages are covered by the workers compensation and employer’s liability, or commercial umbrella liability insurance obtained by Contractor pursuant to this agreement. The Waiver of Our Right to Recover from Others Endorsement, ISO Form SC 00 03 12 shall be attached to the policy showing the Owner listed in the Schedule.

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L. COMMERCIAL GENERAL AND UMBRELLA LIABILITY INSURANCE

The Contractor shall procure and shall maintain commercial general liability (CGL) and if necessary, commercial umbrella insurance with a limit of not less than \$250,000 each occurrence, as shall protect him and any Subcontractor performing Work covered by this Contract from claims for damages for bodily injury, including accidental death, as well as from claims for property damages, which may arise from operations under the Contract Agreement, whether such operations are by himself or by any Subcontractor or by anyone directly or indirectly employed by either of them.

- (1) Comprehensive Form
- (2) Contractual Insurance
- (3) Personal Injury
- (4) Broad Form Property Damage
- (5) Premises - Operations
- (6) Completed Operations

This coverage shall cover the use of all equipment, hoists, and vehicles on the site(s) not covered by Automobile Liability under the contract. Policy coverage must be on an occurrence basis.

M. PAYMENT AND PERFORMANCE BOND

This project will require a 100% payment and performance bond. **There is a 5% bid bond that will be required of the winning bidder after the board approved the awarding bidder. The check should be mailed to 1053 Hwy 45 South, Columbus, MS 39701 after the Board approve the awarding vendor.**

***The Board assumes no responsibility or obligation to respondents and will make no payment for any costs associated with the preparation or submission of the bid proposal. Bidders are encouraged to carefully review all provisions and attachments of this document prior to submission. Each bid proposal constitutes an offer and may not be withdrawn except as provided herein. **

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**Exhibit I
Offeror Affirmation Form:**

Company Name: _____

RFB Name:

RFB Number: _____

After careful examination of the solicitation document in its entirety, and any addendum(addenda) issued, the undersigned proposes to satisfy all requirements in accordance with said documents.

For Consideration of this proposal, the undersigned hereby affirms that:

1. He/She is a duly authorized official of the offeror.
2. NO changes were made to the original RFB document,
3. The proposal is being submitted on behalf of the offeror in accordance with any terms and conditions set forth in this document.
4. The offeror will accept any awards made to it as a result of the proposal submitted here in for a minimum of one hundred and twenty (120) days following the date of submission.
5. The offeror will accept the terms and conditions set forth in the contract template attached here to.

If notified in writing by mail or delivery of the acceptance of the award, the undersigned agrees to furnish and deliver to the assigned procurement professional within five (5) days of the request, a certification of insurance indicating the coverage specified within this solicitation.

A contract shall be established which will set forth the terms of this agreement. The contract shall be interpreted, constructed, and give effect in all respects according to the laws of the State of Mississippi.

Nondiscrimination in Employment: We, the supplier of goods, materials, equipment, and services covered by this bid or contract, have not discriminated in the employment, in any way, against any person or person, or refused to continue the employment of any person or persons on account of their race, color, sex, religion, national origin, marital status, sexual orientation, age, or disability.

Respectfully Submitted,

Company Name: _____

Authorized Official Name

Signature

Title:

Date:

E-mail

Address: _____

The legal name of the bidder is: _____

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**Exhibit II
Non-Collusion Affidavit**

(Form must be completed and returned with bid.)

I state that I am _____ of _____ Company
_____. Title.

And that I am authorized to make this affidavit on behalf of my firm, and its owners, directors, and officers. I am the person responsible in my firm for the price(s) and the amount of this bid and I state that this bid is made in good faith.

1. The price(s) and amounts of this bid have been arrived at independently and without consultation, communication or agreement with any other contractor, bidder, or potential bidder; neither the approximate price(s) have been disclosed nor will they be disclosed before bid opening to any other contractor, bidder or potential bidder.
2. No attempt has been made or will be made to induce any firm or person to refrain from bidding on this contract, or to submit a bid higher than this bid, or to submit any intentionally high or noncompetitive bid or other form of complimentary bid.

I state that: _____ its affiliates, subsidiaries, officers, Directors and employees are not currently under investigation by any government agency and have not in the last three years been convicted or found liable for any act prohibited by State or Federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding on any public contract.

I understand and my firm understands that any misstatement in this affidavit is and shall be treated as fraudulent concealment from the Lowndes County School District of the true facts relating to submission of bids for this contract.

Authorized Official Name

Signature

Title:

Date:

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**Exhibit III
Debarment Certificate**

Certificate Regarding Debarment, Suspension, Ineligibility

(Form must be completed and returned with bid.)

Lowndes County School District is a recipient of Federal monies. As such we require that participating vendors not be debarred, suspended, ineligible or excluded from doing business with the Federal government or any agency thereof.

The prospective participant certifies, by submission of the bid, that neither it, nor its principals, is presently debarred, suspended, proposed for debarment, declared ineligible, or excluded from participation in this transaction by any Federal department or agency.

Company Name: _____

Authorized Official Name

Signature

Title:

Date:

Address: _____

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**Exhibit IV
Vendor Registration Form**

Thank you for your interest in doing business with Lowndes County School District. To become a registered vendor, you must complete and submit the vendor registration form, W-9 and the appropriate "Illegal Immigration Reform and Enforcement Act of 2011" form(s).

Instructions

- All information listed in items 1-13 below must be provided in order to complete your registration.
- You must provide a Federal Tax ID number or a Social Security number.
- The remit to address is where you want to have payments sent. You must indicate if your remit to address is the same as your regular mailing address. If different, provide the remit to address.
- Provide a fax number and e-mail address for the primary company contact.
- Select a company diversity class if applicable.
- You are responsible for notifying the Lowndes County School District of any subsequent changes to the information submitted on this form. Changes should be emailed to Jeanise.Andrews@lowndes.k12.ms.us or Roger.Gaudet@lowndes.k12.ms.us
- **PLEASE NOTE** – You must read the "Illegal Immigration Reform and Enforcement Act of 2011" and submit the necessary forms. Your registration request will not be accepted unless all of the necessary forms are complete.

1. Company Name: _____
2. Company Street Address: _____
3. City: _____ State: _____ Zip: _____
4. Country: _____ Company Contact Name: _____
5. Telephone: _____ Fax: _____
6. Email Address: _____
7. Federal Tax ID Number or Social Security Number: _____
8. NIGP Class Code (Primary, 3-digit): _____
9. NIGP Class Code (Secondary, 3-digit): _____
10. Are you a 1099-Recipient (If yes complete and submit a W-9) Yes _____ No _____
11. Are you or any member of your family an employee of Lowndes County School District? Yes _____ No _____

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12. Preferred method of receiving Purchase Orders:

Email Address: _____ Fax Number: _____

Mailing Address: _____

Remit to address for payment: _____

13. Optional information (for data purposes only):

African American: _____ Asian American: _____

Hispanic American: _____ Native American: _____

Female: _____

You must accept the terms of this agreement in order to register as a vendor with Lowndes County School District. By submitting the vendor registration forms, you certify and warrant that you are duly authorized, by the vendor to (1) register the vendor; (2) file on behalf of the vendor all of the information requested in this registration process; and (3) enter into this agreement on behalf of the vendor. By submitting this electronic vendor registration, you hereby agree on behalf of the vendor and for the benefit of each agency and public body that:

- a. The vendor shall use Lowndes County School District vendor registration update functionality to update the vendor's registration information whenever necessary to ensure that the registration information remains accurate and up to date at all times.
- b. The vendor hereby warrants that the information provided by the vendor through the Lowndes County School District registration process shall at all times be accurate, complete and up to date. The vendor further warrants that each agency and public body shall be entitled at all times to rely conclusively on the currency, accuracy and completeness of the information the vendor has provided through the Lowndes County School District registration process as of that date even if different information is or has been available to or received by agency or public body personnel through means other than the Lowndes County School District registration process.
- c. I agree that (a) I am a U.S. person (including a U.S. resident alien) or a representative of a U.S. entity; and (b) the number shown on this form is the correct taxpayer identification number for my/our organization. This agreement shall remain in effect for as long as the vendor is registered as a Lowndes County School District vendor. **ALL RIGHTS RESERVED TO CANCEL THE VENDOR'S REGISTRATION AT ANY TIME.** In the event the vendor's registration is cancelled, the vendor shall remain bound to this agreement in regard to completion of any contract, purchase order or other electronic procurement transaction that was made or administered in whole or in part using Lowndes County School District.

Agree _____ Disagree _____

Signature of authorized company representative:

Signature

Date

Title

Company Name

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**Exhibit V
Affidavit**

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. § 1310-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services on behalf of Lowndes County School District has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned contractor will continue to use the federal work authorization program throughout the contract period and the undersigned contractor will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the contractor with the information required by O.C.G.A. § 13-10-91(b). Contractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Federal Work Authorization User Identification Number

Date of Authorization

Name of Contractor

Name of Project

[_____] **Vendor Name**

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed _____ on _____

Month _____ 20 _____ in(city), _____ (state) _____

Signature of Authorized Officer or Agent

Printed Name and Title of authorized Officer or Agent

Subscribed and Sworn Before Me

On This the _____ Day Of _____, 20 _____

Notary Public

My Commission Expires: _____

Notary Seal

Lowndes County Schools

Bid/RFB No 022024

**Exhibit VI
Affidavit of Exception (Services ONLY)**

I attest that I am exempt from providing an Affidavit of Compliance to Lowndes County School District pursuant to O.C.G.A. § 13-10-91, as amended, for one of the following reasons:

_____ I am a sole proprietor with no employees, subcontractors or sub-subcontractors and I will not use employees, subcontractors or sub-contractors for any work performed for Lowndes County School District.

_____ My company/firm will render services to Lowndes County School District

_____ My company/firm will only provide goods to Lowndes County School District and will not render any physical services to Lowndes County School District.

_____ My company/firm will render services to Lowndes County School District; however, my company/firm has ten (10) or fewer full-time employees.

Vendor Name: _____

Name of Project: _____

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed _____ on _____ .

Month _____ , 20 _____ in(city) _____ , (state) _____ .

Signature of Authorized Officer or Agent

Printed Name and Title of authorized Officer or Agent Subscribed and Sworn Before Me

On This the _____ Day Of _____ , 20_____.

Notary Public

My Commission Expires: _____



Notary Seal

Please attach a copy of your W-9 Form with this Document.

Lowndes County Schools

Bid/RFB No 022024

**Exhibit VII
Offeror Checklist**

OFFEROR'S CHECKLIST

PROPOSAL NO.: _____

- ☐ All required documents and forms to be submitted as indicated in this RFB
- ☐ Bid Tabulation Form
- ☐ The proposal has been signed by an authorized principal or authorized official of the firm.
- ☐ No conditions, restrictions or qualifications have been placed by the company on this proposal that would have the proposal declared non-responsive.
- ☐ We are prepared to provide the insurance and bonds required in this solicitation.
- ☐ All Exhibit forms
- ☐ E-verify Affidavit (Supplies N/A)

COMPANY NAME

TYPE OR PRINT NAME OF PERSON COMPLETING CHECKLIST

SIGNATURE OF PERSON COMPLETING CHECKLIST

DATE

COMPANY FEDERAL ID NUMBER

COMPANY E-MAIL ADDRESS

READ AND COMPLETE THIS CHECKLIST BEFORE SUBMITTING THE PROPOSAL

Lowndes County Schools

Bid/RFB No 022024

Exhibit VIII

Minimum Contractor Qualifications

In submitting this Proposal and upon awarding a contract, I hereby certify that (check all that apply). Respondents using a subcontractor for this project shall have an authorized agent of the subcontracting company complete this form.

- ☐ With this response, my firm has provided documentation verifying the experience including, but not limited to job description, point of contact, mailing address, telephone number, references for each project, and certifications listed above.

Subcontractors: Description of services to be subcontracted

- ☐ With this response, my firm has examined the specifications, carefully prepared the proposal form, and checked the same in detail before submitting our proposal.

By signing this statement, I certify that the information provided above is accurate and will not change during the contract without prior, written approval from Lowndes County School District.

Name of Company: _____

Authorized Signature: _____ Date: _____

Title: _____

Lowndes County Schools

Bid/RFB No 022024

Exhibit IX

Support After Installation

1. How many service personnel trained in maintaining the proposed systems and does Respondent employ in the District's area? Please indicate the location closest to the District.
 - a. Trained Service Personnel: _____
 - b. Location: _____

2. Provide the address of Respondent's service center(s) closest to the District:
 - a. Company: _____
 - b. Address: _____
 - c. Telephone Number: _____

Lowndes County Schools

Bid/RFB No 022024

LETTER OF INTENT TO BID DUE: 03/01/2024 @ 10:00 a.m.

Roger Gaudet, Network Manager
Lowndes County School District
Roger.Gaudet@lowndes.k12.ms.us
662-244-5006

Reference: Lowndes County School District Integrated IP Based Classroom Sound Enhancement System with Safety & Intercommunication System.

This letter is to notify you that it is our present intent to submit a proposal in response to the above referenced RFB. The individual to whom information regarding this RFB should be transmitted is:

Name: _____
Company: _____
Address: _____
City, State & Zip: _____
Phone Number: _____
E-mail Address: _____

Sincerely,

Signature

Title

Lowndes County Schools

Bid/RFB No 022024

Reverse Auction Required Documents

Bid worksheet and service provider quotes

Specifications for the proposed hardware

References

Documentation of the vendor's certifications

Davis Bacon documentation

Qualifications and training of vendor technical staff

Trouble ticketing procedures and escalation process

Any other documentation required previously in this document

Lowndes County Schools

Bid/RFB No 022024

Bid Form and Acknowledgement

Please include an excel spreadsheet with bid tabulation sheet. Please include the unit price and extended price for the quantities listed for the summation of all schools/sites listed.

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