**Herscher CUSD#2 FY2018-19**

Herscher Community Unit School District #2 is a public school district located in Kankakee County, Illinois and is comprised of 4 schools with an enrollment of 1600+ students. We are seeking to add onto our existing digital intercom system for Herscher Intermediate School.

An approximate list of components and equipment is included below. Please itemize the pricing based on the type of component listed below. All components must be compatible with existing equipment which includes Informacast notification system, Cisco Call Manager and Cisco POE switches. All speakers should also include the necessary firmware and/or licensing to provide connectivity back to these systems. However, brand names, makes and models are included for identification purpose only. For equipment or models other than that specified, the proposed reseller shall supply proof that such substitute equipment equals or exceeds the features, functions, performance, and quality of the specified equipment. It is the responsibility of the reseller and/or supplier to provide all features and functions as outlined in these specifications. The functions and features specified are vital to the operation of this facility; therefore, inclusion in the list of acceptable manufacturers does not release the reseller from strict compliance with the requirements of this specification.

All speakers shall include the capability to broadcast announcements and other audio messaging individually, as zoned or all together. All main speakers will need to have the capability to receive broadcast from a specified common multicast IP address.

Individual classroom speakers shall fit within 2’x2’ drop in for ease of install. The classroom speakers shall include the option to integrate an optional call button/panic button. The speakers shall also include an optional local line level input connection which will allow an end user the capability to plug in a program source such as a radio, CD player, Laptop or mp3 player if needed. The device must be capable to allow emergency broadcasts to interrupt and broadcast over the local audio input when needed.

Hallway speakers shall fit within a 2x2 ceiling tile and shall include all of the necessary hardware which will allow proper installation. Pricing of any additional mounting hardware to allow installation into a 2x2 ceiling tile shall also be included in the quote. These main hallway speakers shall include the option to add a call/panic button if needed. The hallway speakers shall also include the option to wire a secondary analog or digital speaker via speaker wire or Cat5e rated cable. The secondary speaker will be used to extended the same audio broadcast without the use of a zone controller from the main hallway speaker to a secondary hallway speaker.

Indoor speakers shall have a minimum frequency range of at least 60 Hz to 17,000 Hz, an 8 watt RMS power handing capability, and an audio range of at least 95 dB at I meter with a 1-watt input. Classroom speakers should provide sufficient enough sound for a 20’x 20’ classroom with 10’ ceiling. Hallway speakers shall cover an audible span within a 40 feet area (20 feet in front and 20 feet behind of the speaker placement) with 8’ wide hallways and 10’ tall ceilings.

Outdoor horns shall be vandal resistant and rated as a weather resistant paging speaker. They shall also have a minimum frequency range of at least 600 Hz to 14,000 Hz, 8 watt RMS power handing capability, and an audio range of at least 108 dB at 1 meter with a 1-watt input. They must demonstrate the capability of broadcasting an audible page over longer distance of 20 feet or more and over loud noises. The district will exclude the use of any Valcom IP horns due to past problematic issues.

The speaker shall accept power from any IEEE802.3af (PoE) or IEEE802.3at (PoE+) compliant standards which will be provided by the districts Cisco switches. All required wiring from a main speaker back to a switch should meet or exceed un-shielded CAT5e Ethernet standards.

This project is contingent upon the approval of securing the necessary district funds, and dependent upon school administration authorization. For further questions, please contract Technology Director Benjamin Seeman via phone at 1-815-421-5017 or email at Seemanb@hcusd2.org.

QTY 51   
2x2 Drop ceiling IP speakers with talkback used for a classroom. The speakers require independent Ethernet connections back to the POE switch and must have an option for future integration with a call/panic button, and audio input device.  
Example:  
Manufacture Wahsega Labs  
Part Number WL-SPKR-22-SIP-1

QTY 23  
2x2 or compatible hallway speakers that will mount inside a 2’ x 2 ceiling tile with talkback capability. These must include the to add a secondary analog or digital speaker to extend audio playback from the main speaker. The main speakers have dedicated Ethernet connections back to a POE switch. The secondary speaker can be connected back to the main hallway speaker via speaker wire or cat5 or higher cabling. The main speaker needs to have an option for future integration with a call/panic button.  
Example:  
Manufacture Wahsega Labs  
Part Number WL-SPKR-22-SIP-2

QTY 23  
2x2 Drop ceiling secondary speakers. No need to for call/panic talkback, or call/panic buttons on the secondary speaker. These speakers do not require an independent Ethernet drop back to a switch. They act as a repeater to a main speaker and tie into a 2x2 main via speaker cable or via a Ethernet cable.   
Example:  
Manufacture Wahsega Labs  
Part Number WL-SPKR-22-B

QTY 10  
Enclosed IP horns or IP Enclosed speakers with covers used for indoor areas such as gyms and boiler rooms. They must work in areas where high humidity is present and vandal resistant. They also need to be loud enough to cover a larger area and be able to broadcast over loud noises where high activity is present.   
Example:  
Manufacture Advanced Network Devices  
Part Number IPSWS-SM-IC

QTY 10   
Outdoor IP horns. Must be rated to work outdoors with year round weather conditions. Maximum sound level most meet or exceed 8 watts at 105db.   
Example:  
Manufacture 2N   
Part: 2N SIP 8 W RMS - 25 W PMPO Outdoor Speaker  
Note: This speaker requires an a independent 2n license for product integration with Informacast and the license must be included in the total overall cost.