

Jackson County
Intermediate School District
On Behalf of Michigan Center School District

Request For Quote

Network Equipment and Installation

12/22/2016

Issued by:

Jackson County Intermediate School District
Attention: Shannon Degan, Director of Technology
6700 Browns Lake Road
Jackson, MI 49201

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I. Introduction

I.1 Purpose

The Jackson County Intermediate School District (JCISD) is accepting bids for Network Equipment and Installation on behalf of Michigan Center School District. The intention of which is the expansion of wireless access through the District's buildings.

I.2 Scope

The bid request consists of the new purchase of Cisco network components, installation of equipment, and testing.

I.3 Total Price

The total price quoted must include shipping to the location listed in this document. The JCISD has a loading dock and forklift and can accept palletized shipments. Any additional costs outside of the stated guidelines must be provided with an explanation, as an attachment to the Bidder's proposal.

II. Instructions to Bidders

II.1 Overview

The Jackson County Intermediate School District, located at 6700 Browns Lake Road, Jackson, Michigan, 49201, will be accepting bids for “**Network Equipment and Installation**” in accordance with the attached specifications.

II.2 Project Timeline

This proposal will be awarded no less than 29 days from the date of posting in order to maintain compliance with Erate 470/471 rules.

- Technical Questions Deadline – Wednesday, January 18, 2017 at 4:00 p.m. EST

II.3 RFQ Submission

Bids emailed shall be sent to:

jcisdRFP@jcisd.org

Bids mailed shall be sent directly to:

Jackson County Intermediate School District
Attn: Shannon Degan
Michigan Center Lake Network Equipment Bid
6700 Browns Lake Road
Jackson, Michigan 49201

Bids hand delivered and/or mailed express carrier shall be delivered to:

Jackson County Intermediate School District
Attn: Shannon Degan
Michigan Center Lake Network Equipment Bid
6700 Browns Lake Road
Jackson, Michigan 49201

III. General Terms & Conditions

III.1 Consideration of Proposals

The JCISD reserves the right to reject any and all quotes; to accept portions of RFQ's and alternates in any order or combination; is not obligated to accept the lowest or any RFQ; and may waive any informality or irregularity in submittal procedures. JCISD has the right to award bids in whole or in part.

III.2 Verbal Orders

Verbal orders for additions to or deletions from this RFQ must be stated in writing and agreed upon by the JCISD.

III.3 Verbal Interpretations

Technical questions with regard to this RFQ document must be submitted via email no later than Wednesday, January 18, 2017 EST. Answers to questions shall be posted on Customer's site.

No **other** interpretations of the meaning of this bid document will be made to any bidder verbally. Every request for such interpretation shall be in writing and emailed to:

Jackson County Intermediate School District
Attn: Shannon Degan, Director of Technology
Email: [jcisdRFP@jcisd.org](mailto:jcisdrfp@jcisd.org)

III.4 Proposal Binding Period

Prices quoted in the Vendor's response for all materials will remain in effect for a period of at least one hundred and eighty (180) business days from the issuance date of the Vendor's response.

III.5 E-rate compliance

We are applying for category 2 E-rate funding for this project. When preparing the bid please take these things into consideration.

- A. E-rate eligible components in the response must meet the criteria specified by USF Category 2.
- B. All Vendors must have an E-rate SPIN designation.
- C. All Vendors must have the 2017 Service Provider Annual Certification Form 473 on file with USAC by September 1, 2017.
- D. It is the Vendor's responsibility to understand and comply with the rules and procedures required by the Schools and Libraries Corporation and the Universal Services Fund. If requested the successful Vendor will complete the SPI (Form 474) application. All USF form processing and Vendor response preparation are solely the Vendor's responsibility and the District is not responsible for ANY costs associated.
- E. Portions of this project may be contingent on approval of E-rate funding.

F. Cost allocation will be determined where necessary by Client for purposes of devices with partial eligibility.

G. Any considerations regarding SPI or BEAR form invoicing options required by the Vendor must be communicated with the response.

III.6 Price Stability

Contract prices and discounts shall be fixed at the time the contract is signed and deemed “approved” by the Customer and the Vendor. In the event of price changes, replacement equipment shall be purchased at the lower of contract or then current market price. In no case shall a price higher than contract price be paid for equipment proposed.

In the event that the Customer desires to purchase equipment or services not contained in the contract, future purchases will be determined using the Vendor-specified discount rate in the proposal from the manufacturer’s suggested retail price as of the date of the order.

In the case of discrepancy in computed proposal prices, the lowest combined value of individual unit costs shall prevail.

In no case shall the price exceed the favored Vendor prices.

III.7 Variation in Quantities and Configurations

Equipment and quantity requirements are the best estimates currently available. The Customer reserves the right to modify quantity and configuration requirements. The Vendor agrees to sell the Customer the revised quantity of items at the unit price as stated in the RFQ regardless of quantity changes.

III.8 Payment Conditions

Payment shall be made upon final acceptance of the job by the Customer. The project will be deemed acceptable when the Vendor delivers to the Customer (as applicable):

- ✓ *Cables which are 100% free of defective pairs of copper or fiber strands.*
- ✓ *Passing Network Certification test results by an approved Level III tester on the horizontal cabling.*
- ✓ *OTDR / TDR test results on the backbone cables.*
- ✓ *Inspection of Vendors work by the District has been conducted.*
- ✓ *Documentation and other deliverables have been delivered to customer.*

Acceptance shall be further defined as beneficial use by the Customer. Acceptance will be deemed “in full” upon receipt by the Vendor of a Notice of Acceptance issued by the Customer upon beneficial use and full implementation of the Terms and Conditions and Technical Specifications of the Contract. Upon receipt of the Notice of Acceptance, the Vendor shall notify the Customer in writing of a release of all liens for all materials and services associated with this project.

III.9 Warranty

The Vendor shall promptly, at no cost to the Customer, correct or re-perform (including modifications or additions as necessary) any nonconforming or defective workmanship or labor within one year after completion of the project of which the work is a part.

The period of the Vendor's warranties for any items herein are not exclusive remedies, and the Customer has recourse to any warranties of additional scope given by the Vendor to the Customer and all other remedies available at law or in equity. The Vendor's warranties shall commence with acceptance of/or payment for the work in full.

If the Vendor procures equipment or materials under the Contract, the Vendor shall obtain for the benefit of the Customer equipment and materials warranties against defects in materials and workmanship to the extent such warranties are reasonably obtainable.

The Vendor shall pass along to the Customer any additional warranties offered by the manufacturers, at no additional costs to the Customer, should said warranties extend beyond the one-year period specified herein.

This warranty shall in no manner cover equipment that has been damaged or rendered un-serviceable due to negligence, misuse, acts of vandalism, or tampering by the Customer or anyone other than employees or agents of the Vendor. The Vendor's obligation under its warranty is limited to the cost of repair of the warranted item or replacement thereof, at the Vendor's option. Insurance covering said equipment from damage or loss is to be borne by the Vendor until full acceptance of equipment and services.

III.10 Inspection, Acceptance, and Title

Title to/or risk of loss or damage to all items shall be the responsibility of the successful Vendor until acceptance by the Customer, unless loss or damage results from negligence by the Customer. If the materials or services supplied to the Customer are found to be defective or do not conform to the specifications, the Customer reserves the right to cancel the contract upon written notice to the Vendor and return products at the Vendor's expense, based upon the terms of the Contract.

The Customer shall at all times have access to the work wherever it is in preparation or progress, and the Vendor shall provide proper facilities for such access and for inspection.

The Vendor shall not close up any work until the Customer has inspected the work. Should the Vendor close up the work prior to inspection by the Customer, the Vendor shall uncover the work for inspection by the Customer at no cost to the Customer, and then recover the work according to the specification contained herein.

The Vendor shall notify the Customer in writing when the work is ready for inspection. The Customer will inspect the work as expeditiously as possible after receipt of notification from the Vendor.

Price quotations are to include the furnishing of all materials, permits, make readies, equipment, maintenance and training manuals, tools, and the provision of all labor and services necessary or proper for the completion of the work, except as may be otherwise expressly provided in the Contract Documents. The Customer will not be liable for any costs beyond those proposed herein and awarded. Time and materials quotes will be unacceptable. The Customer is a non-taxable entity and as such sales, consumer, use, and other taxes are not applicable.

III.11 Subcontractors

Each subcontractor shall agree to be bound to the Vendor by the terms and conditions of this RFQ.

III. 12 Equal Employment Opportunity

In connection with the execution of this Contract, the Vendors and subcontractors shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, or national origin. The Vendors shall take affirmative action to ensure that minority and disadvantaged applicants are employed and employees are treated during their employment without regard to race, religion, color, sex, age, or national origin.

III. 13 Compliance with Laws and Regulations

The Vendor performance of the work shall comply with applicable federal, state, and local laws, rules, and regulations. The Vendor shall give required notices, shall procure necessary governmental licenses, permits and inspections, and shall pay without burden to the Customer, all fees and charges in connection therewith unless specifically provided otherwise. In the event of violation, the Vendor shall pay all fines and penalties, including attorney's fees and other defense costs and expenses in connection therewith.

III.14 Regulations, Codes, Standards, and Ordinances Compliance

All work specified within this document shall default to the following requirements unless otherwise specified:

The latest edition of the National Electrical Code®

- ✓ All local Building Codes and Ordinances, as applicable.
- ✓ ANSI/TIA-568-C.0 through ANSI/TIA/EIA-568-C.3.
- ✓ ANSI/TIA-569-C
- ✓ ANSI/TIA-606-B
- ✓ ANSI/TIA-607-B
- ✓ Federal Communications Commission.
- ✓ BICSI Telecommunications Distribution Methods Manual
- ✓ National Fire Protection Association
- ✓ OSHA (Standards-29 CFR) Telecommunications-1910.268
- ✓ Terminated in T-568B Standard

Safety

The Vendor shall take the necessary precautions and bear the sole responsibility for the safety of the methods employed in performing the work. The Vendor shall at all times comply with the regulations set forth by federal, state, and local laws, rules, and regulations concerning "OSHA" and all applicable state labor laws, regulations, and standards. The Vendor shall indemnify and hold harmless The Customer from and against all liabilities, suits, damages, costs, and expenses (including attorney's fees and court costs), which may be imposed on the Customer because of the Vendor, subcontractor, or supplier's failure to comply with the regulations stated herein.

Patents and Royalties

The Vendor, without exception, shall indemnify and hold harmless the Customer and its employees from any liability of any nature or kind, including costs and expenses for, or on account of, any trademarked, copyrighted, patented, or non-patented invention, process, or article

manufactured or used in the performance of the Contract, including its use by the Customer. If the Vendor or subcontractor uses any design, device, or materials covered by letters, patent, trademark, or copyright, it is mutually understood and agreed without exception that the proposal prices shall include all royalties or cost arising from the use of such design, device, or materials in any way involved in the work.

Ownership and Use of Architect's Drawings, Specifications and Other Documents

The Drawings, Specification and other Documents prepared by the Architect are instruments of the Architect's services through which the Work to be executed by the Vendor is described. The Architect grants the Customer a license to use and permit the use of copies, including reproducible copies of the Drawings, Specifications, and other documents prepared by the Architect in connection with the Customer's construction of the Project, its use, and occupancy.

The Drawings, Specifications, and other documents shall not be used on other Projects by the Vendor without the prior written consent of the Architect, and the Vendor shall take such action as may be necessary to prevent their use on other projects. The Vendor and Sub-contractors are granted a limited license to use (but not reproduce) applicable portions of the Drawings, Specifications, and other documents appropriate to and for use in execution of their Work under this RFQ.

Indemnification

The Vendor shall indemnify and hold harmless Jackson County ISD, Michigan Center School District and their employees from or on account of any injuries or damages, received or sustained by any person or persons, during or on account of any operation connected with this Contract; or by consequence of any negligence (excluding negligence by the Customer, its agents, Consultant or employees) in connection with the same; or by use of any improper materials or by or on account of any act or omission of said Vendor or its subcontractors, agents, servants, or employees. The Vendor further agrees to indemnify and hold harmless the Customer, its agents, Consultant or employees, against claims or liability arising from or based upon the violation of any federal, state, county, city, or other applicable laws, bylaws, ordinances, or regulations by the Vendor, its agents, associates, or employees.

The indemnification provided above shall obligate the Vendor to defend at its own expense or to provide for such defense, at the Customer's option, of any and all claims of liability and all suits and actions of every name and description that may be brought against the Customer which may result from the operations and activities under this Contract whether the installation operations be performed by the Vendor, subcontractor, or by anyone directly or indirectly employed by either.

The award of this Contract to the Vendor shall obligate the Vendor to comply with the foregoing indemnity provision; however, the collateral obligation of insuring this indemnity must be complied with as set forth.

III.15 INSURANCE

Liability and Insurance

The Vendor shall assume the full duty, obligation, and expense of obtaining and maintaining necessary insurance while providing services to the Customer under the requirements of this RFQ and any addendum.

Insurance Coverage

The Vendor shall be fully liable to provide and maintain in force during the life of this Contract, such insurance, including Public Liability Insurance, Product Liability Insurance, Auto Liability Insurance, Worker's Compensation, and Employer's Liability Insurance as will assure to the Customer the protection contained in the foregoing indemnification

provision undertaken by the Vendor. Such policies shall be issued by United States Treasury-approved companies authorized to do business in the State of Michigan and having agents upon whom service of process may be made in the Customer and shall contain as a minimum, the following provisions, coverage, and policy limits of liability.

General Liability

General Liability Insurance shall protect the Jackson County ISD, Michigan Center School District, its subcontractors, agents, and employees from claims for damages. General Aggregate shall not be less than Two Million Dollars (U.S. \$2,000,000.00) and it shall apply in total to this project only. Products – Comp/GP Aggregate shall not be less than Two Million Dollars (U.S. \$2,000,000.00). Personal & ADV Injury shall not be less than One Million Dollars (U.S. \$1,000,000.00). Each Occurrence shall not be less than One Million Dollars (U.S. \$1,000,000.00). Fire Damage shall not be less than Fifty Thousand Dollars (U.S. \$50,000.00) on any one (1) fire. Medical Expense shall not be less than Five Thousand Dollars (U.S. \$5,000.00) on any one (1) person. Broad Form Property Damage coverage shall include completed operations.

Product Liability

Product Liability or Completed Operations Insurance shall have bodily injury limits of liability of not less than Five Hundred Thousand Dollars (U.S. \$500,000.00) per person; Five Hundred Thousand Dollars (U.S. \$500,000.00) per occurrence, and Five Hundred Thousand Dollars (U.S. \$500,000.00) aggregate.

Workers' Compensation and Employer's Liability

Workers' Compensation and Employer's Liability Insurance shall meet minimum requirements set by the State of Michigan, but in no case less than Five Hundred Thousand Dollars (U.S. \$500,000.00). The Disease Policy Limit shall not be less than Five Hundred Thousand Dollars (U.S. \$500,000.00).

Proof of Insurance

The Vendor shall furnish to the Customer a Certificate of Insurance or duplicate policies of insurance described above which specifically protect the Customer. Jackson County ISD and Michigan Center School District shall be identified as additional insured on the General Liability policy form. Jackson County ISD and Michigan Center School District shall be named as the Certificate Holder.

Such certification must contain a provision for notification of the Customer thirty (30) days in advance of any material change in coverage or cancellation.

Notification shall be in writing and signed in ink by a duly authorized officer of the Insurer.

Insurance Companies are subject to approval and may be rejected by the Customer without stated cause.

Claims

In any and all claims against the Customer, or any of their agents or employees by any employee of the Vendor, any subcontractor, or anyone directly or indirectly employed by any of the contracting parties, or anyone for whose acts any of them may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount or types of damages, compensation acts, disability benefit acts, or other employee benefit acts.

Bid Evaluation

1. Bids will be evaluated as follows:

- Compliance with bid documents
- Completeness of bid
- Contractor qualifications
- Price
- Anticipated completion timelines
- References

2. Right to Reject

The Customer reserves the right to reject any or all bids for any reason.

This RFQ as well as the Vendor's response will become contractual obligations of the successful Bidder. Additionally, by bidding on this RFQ, Vendors accept and acknowledge that the Customer may accept any or all proposals, ultimately waive some bid specifications where in its sole discretion it is appropriate, and not necessarily award the contract to the lowest Bidder. Additionally, Bidders accept and acknowledge that the decision of the Customer is final and that the Vendors waive any recourse against the Customer, Consultant or other Vendors which may otherwise exist for action occurring during the course of this bid solicitation process.

The Customer at its discretion may award different sections to different vendors, if in their opinion it is in their best interest.

In the event of a conflict between any terms or conditions in any of the documents comprising the entire present Agreement, the terms and conditions set forth in this Request for Proposal shall take precedence.

All documents constituting the entire present agreement shall be construed in accordance with and governed by the laws of the State of Michigan.

III.16 Special Conditions

This facility is an educational facility that provides services to the students of the Customer. As such, activities in all buildings are critical to the provisioning of services to the students and staff and shall not be interrupted by the Vendor's work activities.

Service interruptions during normal business hours must be coordinated by the Vendor to minimize impact to the end users.

The Vendor will be required to work around all of the conditions listed above, as well as working with the Customer's staff and students to minimize disruptions to normal Customer activities.

Recognizing the environment in which work is to be done, smoking, consumption of alcoholic beverages and inappropriate language are not acceptable. Smoking is not permitted anywhere on

school property. Contingent on awarding of the contract, anyone assigned to work on the project must pass and provide a background check to have on file at the District. Any cost associated with this is the responsibility of the Vendor.

Cancellation

In the event any provisions of this RFQ are violated by the Vendor, the Customer may give written notice to the Vendor stating the deficiencies. Unless deficiencies are corrected within five (5) working days, recommendations will be made to the Customer for immediate cancellation. The Customer reserves the right to terminate immediately any contract resulting from this RFQ for failure to correct deficiencies.

Advertising

The Vendor agrees not to use the results from this RFQ as a part of any commercial advertising without prior written approval of the Customer.

Installation Guidelines

All work performed on this project will be installed under the guidelines of the current edition of the National Electrical Code®, the current edition of the National Electrical Safety Code®, the current issue of the ANSI/NECA/BICSI-568 Standard for Installing Commercial Building Telecommunications Cabling, the current edition of the BICSI Telecommunications Distribution Methods Manual, the current edition of the BICSI Cabling Installation Manual, the latest issue of the ANSI/TIA/EIA Standards as published by Global Engineering Documents as ANSI/TIA/EIA Telecommunications Building Wiring Standards, and all local codes and ordinances.

III.17 Statewide Prohibition Against Iran-Linked Businesses

The Michigan State legislature passed legislation to prohibit entities that have certain economic relationships with Iran from submitting a bid on a request for proposals (RFQ) from state public entities, to require bidders for certain public contracts to submit certification of eligibility with a bid, and to respond to and report a false certification.

The "Iran Economic Sanctions Act" (P.A. 517 of 2012) makes an Iran-linked business ineligible to submit a bid on a RFQ with a public entity. School districts, community college districts, and intermediate school districts must require each entity submitting a bid on an RFQ to certify it is not an Iran-linked business. This requirement applies to all RFQs and not just to construction projects

The Iran Economic Sanctions Act defines Iran-linked business as either of the following:

- A person engaging in investment activities in the energy sector of Iran, including a person who provides oil or liquefied natural gas tankers or products used to construct or maintain pipelines used to transport oil or liquefied natural gas for the energy sector of Iran.
- A financial institution that extends credit to another person, if that person will use the credit to engage in investment activities in the energy sector of Iran.

By responding to this RFQ, the Vendor certifies that it does not qualify as an Iran-linked business under these conditions.

Documentation

Compile product data and related information appropriate for Customer's maintenance and operation of products furnished under this RFQ. Prepare the data in the form of an instructional manual for use by Customer's IT personnel.

Format:

1. Size: 8-1/2" x 11"
2. Paper: white, for the typed pages.
3. Text: Manufacturer's printed data.
4. Drawings:
 - a. Provide reinforced punched binder tab.
 - b. Fold larger drawings to size of the text pages.
5. Provide fly-leaf for each separate product, and major component parts of equipment.
6. Provide indexed tabs.
7. Cover: OPERATING AND MAINTENANCE INSTRUCTIONS – Columbia Structured Cabling.
8. Binders must be commercial grade.
9. Provide a complete copy of the manual and all drawings, invoices, etc. on CD or DVD ROM media.

Working Environment

1. It is required that all Vendor employees wear an identification badge with photograph. This badge should have the Vendor company name and employee name as a minimum. Shirts with a company logo will be accepted as an alternate means of identification.
2. All work will be performed in a neat and workman like manner in accordance with the latest edition of the *National Electric Code*, the *ANSI/NECA/BICSI-568 Standard for Installing Commercial Building Telecommunications Cabling*, the *BICSI Telecommunications Cabling Installation Manual*, and all *ANSI/TIA/EIA* standards documents relevant to this installation. All methods of construction, details of workmanship that are not specifically described or indicated shall be subject to approval by Customer.
3. All effected computer equipment and furniture shall be covered during the project to keep down the debris residue.
4. Daily clean up is required of all site areas.
5. Equipment, cables, and personnel shall not be in hallways during classroom changes.
6. Any areas that may become a safety concern should be cordoned off to restrict access.
7. All equipment and supplies will be stored in Customer designated areas only.
8. Any disruption in service (data, phone, video, etc.) must be scheduled and coordinated with the Customer.
9. The work environment may demand the Vendor workers wear hardhats. Vendor is responsible for following all OSHA guidelines and those work stipulations put forth by the General Contractor.

Ceilings and Walls

1. Vendor must carefully remove existing ceiling tiles as required. Store the removed tiles in a location specified by Customer.
2. The ceiling grid should not be modified in any way.
3. Vendor can submit a waiver of responsibility for ceiling tiles that are already broken, brittle or discolored.
4. Any tiles that are damaged during the installation process must be replaced and installed by Vendor. New tiles must match the type and design of the adjacent area.
5. All wall surfaces shall be restored to their original finish matching the adjacent area.

Abandoned Cables

1. Vendor will remove all unused or abandoned cables as identified by the District from the ceiling and riser areas.
2. The Vendor will remove the debris and dispose of in a receptacle stipulated by the Customer.
3. All open wall penetrations that result from the removal of abandoned cables shall be properly sealed.

Fire-stopping

1. Vendor will supply the appropriate sleeves for any new penetration of building surfaces for this project. Where necessary, Customer will provide Vendor with information for locations requiring firestop.
2. New penetrations shall be fire-stopped where they penetrate new or existing building construction.
3. Firestopping shall be accomplished by using a combination of materials and devices, including penetrating raceway, sleeves, or cables, required to make up a complete fire-stop.
4. Vendor shall verify that cabling and other penetrating elements and supporting devices have been completely installed and temporary lines and cables have been removed.
5. Vendor shall select the appropriate type or types of through penetration fire-stop devices or systems appropriate for each type of communications penetration and base each selection on criteria specified herein.
6. Vendor shall perform all necessary coordination with other trades constructing floors, walls, or other partitions of building construction with respect to size and shape of each opening to be constructed and device or system approved for use in each instance.
7. Use materials that have no irritating or objectionable odors when firestopping is required in existing buildings and areas that are occupied.
8. Provide damming materials, plates, wires, restricting collars, and devices necessary for proper installation of firestopping. Remove combustible installation aids after fire-stopping material has cured.
9. Existing raceways, cable trays, and cabling that penetrate existing building construction shall be fire-stopped to the extent necessary to fill cavities that may exist between existing building construction and existing communications penetration or existing conduit sleeve, and between existing conduits and existing conduit sleeve.

Sleeves

1. Provide sleeves for new conduit and cable penetrations of building construction if necessary.
2. Use galvanized rigid conduit sleeves for penetrations through exterior masonry/concrete walls and foundations, concrete floor slabs on grade and above grade, and concrete-filled decks.
3. Use only fire-rated listed assemblies for the type of sleeve being installed through CMU walls or gypsum walls for communications penetrations. Sleeve type shall be galvanized rigid conduit.
4. Secure sleeves firmly in place using filling and patching materials (grout) that match with the adjacent areas.
5. In wall penetrations, cut sleeves flush with wall surface and use metal escutcheon plates in finished interior areas.
6. Seal voids between sleeves and building construction with joint sealants. Make allowances for and coordinate the work with installation of firestopping, conduit insulation, and waterproofing, as applicable.
7. Vendor shall be responsible for final and correct location of sleeves. Sleeves that are omitted or incorrectly located or installed in existing building construction shall be corrected and provided by the Vendor at no charge to Customer.

IV. Configuration Specifications & Pricing Summary

Wireless Access Points

All WAP's are to be mounted at drop locations.

All Vendors are required to submit a completed Vendor Cost Analysis form reflecting the materials they intend to install.

Pathway

Pathway will need to be added where required. Vendor may use existing pathway where applicable however it must meet current building, fire and cabling standards. Sleeves, J-Hooks, and V2400 raceway maybe required in several locations throughout the building.

Category 6 UTP

All new copper data connections in the buildings are to be Category 6 UTP, plenum-rated. Wireless connections in all buildings will be CAT 6 UTP, plenum-rated. Many of the outlets are being installed into existing or newly installed raceway by others, but the Vendor will need to provide compatible faceplates and/or keystone jacks in those areas to complete the project. The District is specifying that multiple colors of cables installed according to the purpose of the connections. Those specified colors are (other colors may be submitted for approval if necessary):

Cable Colors

Teacher Station or Standard Outlet (CAT 6)	Blue
Wireless (CAT 6)	Yellow

Modular Jack Colors; Closet / End User

Teacher Station or Standard Outlet (CAT 6)	Orange / Orange
Wireless (CAT 6)	Yellow / Yellow

Fiber Optic

Where Fiber is to be installed the Vendor should provide 12CT Single Mode Fiber. This fiber is to be armored indoor and non-plenum rated. Vendor is requested to provide an approved 1U fiber termination rack with SC style connectors. All connections need to be terminated with a fusion spliced pigtail and installed into an SC/UPC style bulkhead.

Wireless Access Points

At each outlet location, a 20' coil is to be dressed and secured properly for future WAP placement. When the WAP is located on a wall, the coil should be placed in the nearest location in which it can be hidden from normal view (in the hall or in a storage room on other side of wall). All WAP drops will be terminated with a surface mount jack with a Yellow modular jack.

Vendor should also provide and install an approved cage that is able to protect the access point from a ball damaging the AP. The aprox size of the AP is 9x9x2.5. The cage should also protect the jack if the jack is mounted to the surface of the wall. Cages could be installed on newly installed Aps or could be installed over existing Aps that are currently in place. The cages could made of wire or solid plastic. Vendor should attach product specs with the submission of the RFP.

Equipment Manufacturer

The District is not specifying a manufacturer for the materials supplied for this project.

In any event, all connectivity equipment supplied is to be keystone-compliant. **No manufacturer proprietary equipment will be approved.** All Vendors are required to submit a completed Vendor Cost Analysis form reflecting the materials they intend to install.

Documentation and Labeling

PORT

Each cable is required to be labeled on the cable itself on both ends, and individual outlets must also have a label that is easily readable. The labels should be printed with either a p-touch type labeler or computer printed, hand writing with marker will not be accepted. The numbering format for each outlet shall be:

<Closet>-<Patch Panel Number>-<Port Number> (ex 01-01-01)

WAP

Each WAP should be installed with a Label that has been approved by the owner prior to install. The vendor should also deliver As-Built in the form of owner provided CAD files. The WAPs should be on their own layer in the CAD file. The CAD files should contain at least the following information:

- Drop ID if not known previously
- AP Name (Building-Room-AP##)
- CAD Block in each approximate location of the installed AP

The vendor should also deliver an excel sheet with the following information

- Correct MAC address
- AP Name
- Serial Number
- Drop ID

This information should be delivered in .xls format. It should not be hand written, and any discrepancies in the information will need to be corrected prior to final documentation will be accepted.

CLOSET

Each closet is to be labeled with large lettering to indicate which closet it is. Each patch panel shall be labeled with large **two digit numbers** to clearly indicate which panel it is. The vendor is to provide the District with the passing certification results of each drop. This can be delivered in a .pdf format.

The Vendor will be provided with .dwg (AutoCAD) files for each site at the beginning of the Project, and will be required to update and submit those files for as-built drawings showing each drop identified as part of their close-out package. **Note: Some drop locations may not be present on the attached maps in the RFQ, remaining drops will be finalized at beginning of Project.**

INSTRUCTIONS: Please complete the following summary of pricing for the configuration of each building. Failure to complete this summary may result in a rejection of the proposal. These are the minimum requirements. Please quote equivalent or better. Please provide a detailed product description and specifications sheet attached to this pricing summary. **You do not need to quote on all parts as we will award in full or in part.**

Price Summary

Keicher Elementary

137 Broad St, Michigan Center, MI 49254

Product	Equivalent Alternate	Qty	Unit Cost	Total Cost
<u>Equipment</u>				
WS-C2960X-48FPS-L		8		
WS-C2960X-48-FPD-L		2		
C2960X-Stack		10		
GLC-SX-MM		2		
GLC-LH-SM		1		
SFP-10G-LR-S		1		
SFP-10G-SR-S		3		
Multi-Mode SC-LC 2M Cable 50 micron - Aqua		2		
Single Mode SC-LC 2M Cable		1		
Equipment Total				
<u>Physical Infrastructure</u>				
Cable Runs (CAT6)*		20		
WAP Cages (Provide and Install)		6		
1ft CAT6 Patch Cables (Blue)		400		
2ft CAT6 Patch Cables (Blue)		40		
3ft CAT6 Patch Cables (Blue)		15		
1ft CAT6 Patch Cables (Green)		30		
2ft CAT6 Patch Cables (Green)		20		
1ft CAT6 Patch Cables (Yellow)		40		
3ft CAT6 Patch Cables		20		

(Yellow)				
LC/UPC Male-Female Attenuator 1dB		4		
LC/UPC Male-Female Attenuator 2dB		4		
LC/UPC Male-Female Attenuator 3dB		4		
Physical Infrastructure Total				

Michigan Center High School

219 Monroe St, Michigan Center, MI 49237

Product	Equivalent Alternate	Qty	Unit Cost	Total Cost
Equipment				
WS-C2960X-48FPS-L		9		
WS-C2960X-48-FPD-L		5		
C2960X-Stack		9		
Switch/AP Bundle (2- WS-C2960X-48-FPD-L 2- C2960X-Stack 10 - AIR-CAP2702I-B-K9)		2		
AIR-CAP2702I-B-K9		10		
GLC-SX-MM		9		
GLC-LH-SM		3		
SFP-10G-LR-S		3		
SFP-10G-SR-S		9		
Multi-Mode SC-LC 2M Cable 50 micron - Aqua		9		
Single Mode SC-LC 2M Cable		3		
Equipment Total				
Physical Infrastructure				
Install Access Points		30		
WAP Cable Run (CAT6)*		10		
WAP Cages (Provide and Install)		8		
Cable Runs (CAT6)*		20		
1ft CAT6 Patch Cables (Blue)		530		
2ft CAT6 Patch Cables (Blue)		50		
3ft CAT6 Patch Cables (Blue)		20		
1ft CAT6 Patch Cables (Green)		50		
2ft CAT6 Patch Cables (Green)		25		

1ft CAT6 Patch Cables (Yellow)		50		
3ft CAT6 Patch Cables (Yellow)		20		
1ft CAT6 Patch Cables (White)		50		
3ft CAT6 Patch Cables (White)		10		
LC/UPC Male-Female Attenuator 1dB		8		
LC/UPC Male-Female Attenuator 2dB		8		
LC/UPC Male-Female Attenuator 3dB		8		
LC/UPC Male-Female Attenuator 5dB		4		
Physical Infrastructure Total				

Arnold Elementary

4064 Page Ave, Michigan Center, MI 49254

Product	Equivalent Alternate	Qty	Unit Cost	Total Cost
Equipment				
WS-C2960X-48FPS-L		2		
WS-C2960X-48-FPD-L		2		
C2960X-Stack		4		
GLC-SX-MM		2		
GLC-LH-SM		2		
SFP-10G-LR-S		2		
SFP-10G-SR-S		2		
Switch/AP Bundle (2- WS-C2960X-48-FPD-L 2- C2960X-Stack 10 - AIR-CAP2702I-B-K9)		1		
Multi-Mode SC-LC 2M Cable 50 micron - Aqua		2		
Single Mode SC-LC 2M Cable		2		
Equipment Total				
Physical Infrastructure				
WAP Cable Run (CAT6)*		10		
Cable Runs (CAT6)*		20		
WAP Cages (Provide and Install)		6		

1ft CAT6 Patch Cables (Blue)		250		
2ft CAT6 Patch Cables (Blue)		25		
3ft CAT6 Patch Cables (Blue)		10		
1ft CAT6 Patch Cables (Green)		30		
2ft CAT6 Patch Cables (Green)		20		
1ft CAT6 Patch Cables (Yellow)		20		
3ft CAT6 Patch Cables (Yellow)		10		
LC/UPC Male-Female Attenuator 1dB		2		
LC/UPC Male-Female Attenuator 2dB		2		
LC/UPC Male-Female Attenuator 3dB		2		
Physical Infrastructure Total				

Michigan Center Bus Garage

219 Monroe St, Michigan Center, MI 49237

Product	Equivalent Alternate	Qty	Unit Cost	Total Cost
Equipment				
WS-C2960X-24PD-L		1		
GLC-SX-MM		1		
Multi-Mode SC-LC 2M Cable 50 micron - Aqua		1		
Equipment Total				

*Locations to be determined at a later date.

This equipment will be ordered April-July timeframe.

V. Contractor Agreement Form

We, the undersigned, have prepared and submitted this Contractor Agreement Form as our proposal in response to the “**Network Equipment**” issued by the Jackson County Intermediate School District located at 6700 Browns Lake Road, Jackson, Michigan 49201.

We understand the submittal of this Contract Agreement constitutes our offer of Proposal for this equipment. And that this submittal shall not be construed as a bilateral Agreement until fully executed as a Contract countersigned by the Jackson County Intermediate School District.

This price is guaranteed for one hundred and eighty (180) days after the date of opening bids, and if authorized to proceed within that period, we agree to deliver the equipment covered by this bid at the said price.

Contractor Authorized Signature

Printed Name

Company Name

Title

Address

City, State and Zip Code

Telephone Number

Date

Email Address