

# REQUEST FOR PROPOSAL

E-RATE Funding Year 2015

E-rate Category 2 Project for  
Tunica County School District



Tunica County School District  
Technology Department  
744 School Street  
P. O. Box 758  
Tunica, MS 38676  
Phone: (662) 363-2811  
Fax: (662) 363-3061

**Contact: Eric Brown**  
**Telephone: (662) 363-3507**  
**Fax: (662) 363-1458**  
**E-mail: [browne@tunicak12.org](mailto:browne@tunicak12.org)**

# Request for Proposals Erate Category 2 Project TUNICA COUNTY SCHOOL DISTRICT

## Notice to Bidders

Notice is hereby given to interested bidders that the Tunica County School District will receive written, sealed bids until the hour of **2:00 p.m. on Friday, March 6, 2015**, at which time bids will be opened in the Board Room of the Tunica County School District Office Building at 744 School Street, Tunica, MS.

## Bid Timeline

Newspaper Bid Notice	First - Friday, February 6, 2015 Second – Friday, February 13, 2015 Third – Friday, February 20, 2015
State Bid Bank Bid Notice	Friday, January 30, 2015
RFP Posted to TSD Bid Site	Wednesday, February 4, 2015
Mandatory Pre-Bid Site Visit	Monday, February 23, 2015, 8:30 a.m.
Stop Receiving Bids	Friday, March 6, 2015 2:00 p.m.
Bid Opening	Friday, March 6, 2015 2:15 p.m.
Bid Evaluation	March 7, 2015 - March 19, 2015
File Form 471	Friday, March 20, 2015

## Table of Contents

	Page
Notice to Bidders	2
Bid Timeline	2
Project Description	4
Bid Submission Instructions	7
Certificate of Responsibility	8
Evaluation Methodology	9
Vendor Qualifications	10
Financing	11
Disqualification of Bidder	11
Equipment and Installation Specifications	12
Other Considerations	22
District Responsibilities	22
Vendor Responsibilities	22
Current Equipment	22
Current Network and WAN Configuration	23
Erate	23
Right to Reject	23
Site Visit Information Form	24
Bid Worksheet	25
Required Documents	46
Reference Form	47

## **Erate Category 2 Project (Description)**

The Tunica County School District wishes to upgrade its Erate eligible category 2 LAN equipment, cabling infrastructure and wireless equipment to allow each of its schools to simultaneously operate 35 wireless devices in specified classrooms and 100+ wireless devices in specified common areas such as but not limited to libraries, auditoriums, gyms and cafeterias. The district also must upgrade its existing Wired LAN infrastructure, as most of the LAN switches are end of life.

The RFP will consist of 4 parts: Cabling, Wireless, Switches and Managed Services/Basic Maintenance. Vendors may bid on any or all parts. For example, a vendor may bid cabling only, or Switches and Wireless, or Services/Maintenance only, or all parts as a turnkey solution. Any discounts for bundled pricing or winning more than one portion of the RFP will be considered and allowed.

Building Diagrams will be available at the mandatory vendor meeting.

The capacity of the access points should allow students to conduct moderate to heavy Web access for research with minimal video streaming, such as all students being able to view a 2-4 minute online video in HD once every hour. The Bidder may assume that the Tunica County School District has sufficient Internet bandwidth to supply the requirements above. The primary objective is to ensure that bottlenecks do not occur at the wireless access point under the specified conditions.

The Wireless Infrastructure must be able to support up to 1500 simultaneously connected devices on EACH of 5 campuses in the previously specified areas and must accommodate all campus locations simultaneously: Dundee Elementary, Robinsonville Elementary, Rosa Fort High School, Tunica Elementary and Tunica Middle School. The district would also like to receive pricing for it's 3 Non-instructional facilities (NIF): The Tunica County School District Office, Bus Barn and Maintenance Department. The NIFs are NOT erate eligible and no erate funds will be applied for these locations. NIFs will be quoted on a separate sheet.

Seamless roaming on a single campus and within the same mobility domain without ever needing to re-authenticate will be required. Should the bidder propose a solution that does not meet the specifications listed below, the vendor must provide sufficient documentation that the District's objective will be met with the vendor's proposed solution.

The district prefers a model that offers one wireless access point per every two classrooms and wireless coverage in common areas such as the gym, cafeteria, etc. The district would proposals to include upgrade pricing for additional Access Points and switches. Proposals engineered for coverage only and not capacity as stated in the RFP will not be considered.

If a proposal offers less than one access point per every two classrooms, vendor must provide solid documentation from the manufacturer that guarantees coverage will meet the needs described above.

Proposals should include a realistic assessment of actual access points as well as cabling and other equipment necessary to support the wireless needs outlined above and specified below. Technical specifications of equipment should be provided with the proposal.

The proposal must guarantee performance sufficient to fulfill the needs of the Tunica County School District as specified within this RFP. After implementation of the successful vendor's proposal, if additional equipment, cabling or labor is needed, the vendor will bear all costs necessary to satisfy the requirements of this RFP and of the vendors proposed solution.

It is the vendor's responsibility to ensure that the equipment proposed meets the performance specifications of the manufacturer and the previously stated requirements. The Tunica County School District will not release the vendor from the performance guarantee required above, because of malfunctions or defects in equipment due to manufacturer error or flaws in the equipment.

In order to be eligible to bid, all prospective bidders must attend a pre-bid conference at 8:30 a.m. Monday, February 23, 2015 and a building walkthrough afterward. The pre-bid conference will be held at the Tunica County School District Office located at 744 School Street, Tunica, MS. Proposals from vendors who do not complete the conference and walkthrough WILL NOT be considered.

At the time of the pre-bid conference, all bidders will be expected to complete and turn in the "Site Visit Information Form" at the end of this document.

Bids will be opened at 2:15 p.m. on Friday, March 6, 2015. For more information, contact Eric Brown at [browne@tunicak12.org](mailto:browne@tunicak12.org)

#### **Clarification**

If after the completion of this project, during normal operation of the network, the district discovers that the wired and/or wireless network will not meet the capacity requirements of this RFP, the vendor will be required to do whatever is necessary to meet the specifications with no additional cost to the Tunica County School District

#### **General**

The specifications herein are provided to convey the intent of the system and do not indicate every cable or component necessary for the complete system that the proposing vendor shall provide.

Prices quoted shall be an all-inclusive solution including all applicable taxes, shipping costs, installation of equipment, configuration of equipment, any necessary cabling, training, technical support and trash removal, and represent complete installation and integration with the existing network where necessary. All equipment included in vendor's proposal must be new equipment purchased from an authorized reseller. No grey market, third party, or used equipment will be considered. Prices quoted in the vendor's response will remain in effect for a period of eighteen (18) months from the time of the contract signing.

Omissions in the proposal of any provision described herein shall not be construed as to relieve the vendor of any responsibility or obligation to the complete and satisfactory delivery, operation and support of any services.

Should the vendor have questions or find discrepancies in, or omissions from this RFP, or be in doubt to its meaning, the vendor shall at once notify Tunica County School District. All questions should be addressed to Eric Brown as outlined below. The preferred mode of contact is via email.

Eric Brown  
Technology Coordinator  
Tunica County School District

Questions must be submitted to the email address [browne@tunicak12.org](mailto:browne@tunicak12.org). If a response is not received within 24 hours, it is the responsibility of the respondent to call Eric Brown at 662-363-3507 or 662-541-0697 to confirm receipt of the questions.

## **Bid Submission Instructions**

Bids will be opened at 2:15 p.m., Friday, March 6, 2015, in the Board Room of the Tunica County School District Office located at 744 School Street, Tunica, MS.

Bids must be submitted in a sealed envelope clearly marked as follows:

“2015 – 2016 ERATE Category 1 and Category 2 Products and Services”

Bidders Certificate of Responsibility Number must be clearly marked on the front of the envelope.

Envelopes not so marked will remain sealed. The Tunica County School District Board of Trustees reserves the right to reject any and/or all bid and waive any informality.

Bidders must submit one (1) original and three (3) copies of their full response.

The first page showing in the bid submission packet must be Bid Worksheet beginning on page 24 of this document. The worksheet is broken down by school to facilitate the new Erate C2 Requirements. Failure to comply may result in bid disqualification.

Bids must include the following:

The “Bid Worksheet” (Page 24) completed and signed by the bidder. Note, the “Bid Worksheet” is divided by school to accommodate the new Erate budget requirements. Bidders must complete the worksheet with pricing by individual schools.

**(THE BID WORKSHEET MUST BE THE FIRST PAGE IN THE BID SUBMISSION DOCUMENTATION)**

Required Documents listed on Page 45.

It is the sole responsibility of the respondents to ensure their responses arrive in a timely manner. Late arrivals will be rejected. The Tunica County School District is not responsible for delays of any commercial carrier or delays incurred by the respondents. Oral, telephone, or electronically transferred bids will not be considered. Signatures on the proposals must be in longhand and executed by a principal duly authorized by the vendor to make a contract.

PLEASE NOTE: Common Carriers, UPS and FedEx, in the Tunica Mississippi area generally do not deliver overnight packages on time. The Tunica County School District will not be responsible for nor will it accept bid responses delivered after the deadline.

## **Questions**

Questions must be submitted to the email address [browne@tunicak12.org](mailto:browne@tunicak12.org). If a response is not received within 24 hours, it is the responsibility of the respondent to call Eric Brown at 662-363-3507 or 662-541-0697 to confirm receipt of the question. All questions and responses will be posted within 24 hours on the district's web site at <http://www.tunicak12.org>

It is the sole responsibility of the respondent to visit this page prior to bid submission to ensure they have the latest information.

## **Certificate of Responsibility**

1. Each bidder submitting a bid in excess of \$50,000 on public projects must show on his bid and on the face of the envelope containing the bid, his Certificate of Responsibility Number, as required by Section 31-3-5 and 31-3-21 (latest edition) Mississippi Code of 1972. If the bid does not exceed the amount of \$50,000 on public projects, a notation so stating must appear on the face of the envelope.
2. When multiple contractors submit a joint venture bid in excess of \$50,000.00 on public projects, a Joint Venture Certificate of Responsibility Number is required on the bid and face of the envelope. If the Joint Venture has no Joint Venture Certificate of Responsibility number, then each member of the Joint Venture must indicate their individual Certificate of Responsibility numbers on the bid and on the face of the envelope.
3. Each subcontractor whose Subcontract exceeds \$50,000.00 on public projects shall have a Certificate of Responsibility Number, as required by Section 31-3-15 and 31-3-21 (latest version), Mississippi Code.
4. No bid will be opened, considered or accepted unless the above information is given as specified. Sufficient evidence that said Certificate of Responsibility has been issued and is in effect at the time of receiving bids must be submitted when required by the Owner. Likewise, it shall be the responsibility of the Prime Contractor to require a Certificate of Responsibility Number from any subcontractor where applicable.



## **Evaluation Methodology**

The Tunica County School District Board of Trustees will award a contract based on the vendor submission that best meets the needs of the school system with regard to the current Technology Plan, future growth, RFP specifications, and not necessarily the lowest price even though price will be the priority factor. The following factors will be considered when evaluating responses:

- Price, based on 5 year cost of ownership estimate (to include base price, renewal fees and additional support fees).
- Strength of References
- Adherence to Technical Specifications
- Technical Certifications of Vendor Staff
- Number of Service Staff within close proximity to Tunica, MS
- Vendor response time for Managed Service or Basic Maintenance
- Turnkey Solution
- Ease of Use
- Preference will be given for prior positive experience with the Vendor
- Preference will be given to Mississippi based vendors

## **Vendor Qualifications**

The Tunica County School District may make such investigations as deemed necessary to determine the ability of the bidder or subcontractors or suppliers to perform the work, and the bidder shall furnish to the Tunica County School District all such information and data for this purpose as the Tunica County School District may request. The Tunica County School District reserves the right to reject any bid if the evidence submitted by or investigation of such Bidder fails to satisfy the Tunica County School District that such bidder is properly qualified to carry out the obligations of the contract and/or to complete the work contemplated therein within the time required.

The bidder is specifically advised that any person, firm or other party to whom it proposes to award a subcontract or purchase order under this contract must be acceptable to the Tunica County School District.

The successful vendor (contractor) must have or be certified with the following:

- Be able to supply all products and services.
- Be an authorized dealer in the State of Mississippi for all products.
- Have current liability insurance and workers compensation insurance (please enclose a copy of each with your bid).
- Provide the documentation of the vendor's employee certifications for cabling, wireless and switching.
- Participate in the mandatory site walkthrough that will be held on Monday, February 23, 2015, at 8:30 a.m. Any bid submitted by a vendor who does not complete the mandatory walkthrough will not be opened. There will be no exceptions.
- Provide an Erate SPIN
- Provide at least 3 references for projects of the same scope and size

## **Financing**

This project will be subsidized by the Erate program and is therefore subject to funding availability and contingent upon Erate funding.

## **Disqualification of Bidder**

The Tunica County School District reserves the right to award to other than the lowest bidder when, in the judgment of the district administration, it is in the best interest of the district do so. A Bidder may be disqualified for such reasons as:

1. Bidder's failure to comply with requirements regarding Certificate of Responsibility.
2. Bidder's failure to sign Bidder's Proposal Form or to otherwise properly complete the Proposal Form.
3. Bidder's failure to attend and complete the mandatory site walkthrough.
4. Bidder being in litigation with the Tunica County School District.
5. Bidder having defaulted on a previous contract.
6. Bidder having preformed unsatisfactorily on a previous contract, including but not limited to the Bidder's failure to fulfill the warranty obligations of a previous contract with the Tunica County School District.
7. Bidder's failure to include documentation for required certifications and authorizations.

The above is not an inclusive list.

**The Tunica County School District will strictly adhere to the rules and regulations of the Erate program when evaluating bid responses.**

## **Cabling Specifications**

### **Part 1**

#### **Cabling for Access Points**

All cable and cabling components including jacks and patch panels used in this proposal will be Category 6 rated.

- Bid must include cabling and all necessary components (patch cables, patch panels, jacks and mounts, crimp ends, racks, etc.)
- New Cat 6 cables must be run for each proposed access point. The number of cables run should be equal to the number of RJ45 Jacks that connect to the network switch found on the proposed access point to which the cable is being run.
- Current cables and patch panels may not be used for this project unless they are Cat 6 Rated cables. If the rack in the IDF or MDF is not large enough to accommodate the additional Cat 6 Patch Panel, racks should be quoted.
- Bid must include cost of labor and installation.
- Any cables run by the vendor will be terminated into a patch panel and labeled indicating the AP to which it attaches.
- Any power injector used by the vendor in their solution must meet the standards of the AP manufacturer for the AP being powered. Power injectors are not preferred and will only be considered when it is not feasible to connect to a POE switch
- Patch cables from the patch panel to the switch will be YELLOW, Cat 6 cables and will be provided by the vendor.

## **Wireless Project Specifications Part 2**

### **Wireless Infrastructure**

The Tunica County School District is requesting an all-inclusive solution including all applicable taxes, shipping costs, installation of equipment, configuration of equipment, any necessary cabling, training, technical support and trash removal, and represent complete installation and integration with the existing network where necessary. All equipment included in vendor's proposal must be new equipment purchased from an authorized reseller. No grey market, third party, or used equipment will be considered. Prices quoted in the vendor's response will remain in effect for a period of eighteen (18) months from the time of the contract signing.

If the same vendor does not win Part 2 (Wireless Project) and Part 3 (LAN Switch Upgrade), each vendor must be willing to work with the other awarded vendor on installation and configuration, so that the Wireless network and Wired network integrate and work seamlessly together.

### **Required Specifications for Wireless Project**

- The wireless system must support a stateful application-layer firewall that can identify, classify, and prioritize applications using layer 7 intelligence. Applications should be able to be traffic shaped as well to ensure that recreational applications (like Pandora, Spotify, etc.) do not consume all of the available bandwidth.
- The wireless system must include intuitive multi-site scalability and management. Must be able to deploy multiple sites rapidly and monitor, manage and troubleshoot all sites from a single web-based interface. This includes being able to "clone" configurations of devices automatically, and easily re-assign assets to other network areas as needed. This must be 100% GUI based, and no Command-Line (CLI) programming for any features is permitted.
- The wireless system must support the ability to fingerprint client device types (i.e. iPad, Android, iPhone, Windows, etc) and apply security settings to those devices, without the need for additional appliances or licenses. For example: iPads on the Student SSID may have access to only the web and are rate limited to 512 kbps, and no peer to peer traffic is allowed.
- The wireless system must support Bonjour gateway services to allow Airplay, printing, iTunes and other Bonjour-based services to flow seamlessly across the wireless network.
- The wireless system must support the ability to easily replicate and clone configurations across multiple different sites using a single click. Ideally, a configuration could be changed once and then replicated across multiple sites.
- The wireless system must support the ability to take a packet capture directly from the management interface. This packet capture should be able to filter based on client, IP address, and MAC address.
- The wireless system must support the ability to provide deep application visibility into all of the applications that are used on the wireless network, including hostname visibility to view the individual URLs of all of the applications. This information should be exportable and downloadable on a per network and per SSID basis.

- The wireless system should have built in guest access and not require any additional appliances or licenses for guest users.
- The wireless system must include a tagging function to provide easy search-ability across our network, device types, and users with search "tagging" functionality.
- The wireless system must support the ability to send summary reports to certain administrators on a daily, weekly and monthly basis. These summary reports should show information like top users, top applications, bandwidth consumed per day, etc. These summary reports should be able to be sent on a per school basis, or aggregated for multiple schools using a tagging mechanism. For example, one administrator may want to see summary report information for all elementary schools in aggregate every week.
- Solution must include a fully integrated, Mobile Device Management platform capable of managing Apple iOS, Android, Windows, and Mac OSX devices all from the same common management interface as the WLAN, Access Switching, and Security Appliance products.
- Solution must provide rich layer 7 application visibility and control for classification (e.g. Skype, BitTorrent, web traffic) and shaping of that traffic.
- Solution must include fully integrated client, device, and OS visibility, with ability to assign policies via the management interface to different users, networks, and device types based on preferences. Group policies must be universally applicable to all access points and switches. Management interface must be 100% GUI based, and no Command-Line (CLI) programming for any feature is permitted.
- Wireless system must have built-in redundancy and reliability. Solution must be able to provide a 99.99% service level agreement.
- The wireless system must include a Mobile Management application. This application must be supported on both Apple iOS and Android mobile operating systems. This single mobile application must be able to do the following:
  - Monitor wireless, switching, and security infrastructure
  - See all wireless, switching, and security infrastructure network status and usage via easy to read graphs and tables
  - Receive push notifications for any network outages
  - Scan access point barcodes to facilitate adding them to the network
  - Utilize the mobile device's camera to photograph and document access point mounting locations
  - Pinpoint access point location using Global Positioning System (GPS)
  - Verify device and client connectivity using live tools like Ping, Traceroute, etc.
  - Quickly deploy group policies to clients that control L3/L7 firewalling, traffic-shaping, and content filtering
  - Provide the capability to easily block clients from the network
  - Be both PIN code and Password securable
  - Provide easy access to Support Case management
  - Be able to read device event logs remotely

- Show individual client Application Usage history (example - YouTube, Instagram, Facebook, etc.)
- Anyone who responds to this RFP must also be able/willing to provide an option for device by device substitution for access points and switches if “Wave 2” or newer device becomes available before installation.

### **Required Equipment Specifications for Wireless**

**WLAN Controller – Will consider on site controller or cloud based controller**

#### **Wireless Access Points**

**All access points MUST be 802.11ac capable and 5 GHz**

- 3 radios: 2.4 and 5 GHz, dual-band WIDS/WIPS
- 2-stream 802.11ac and 802.11n, up to 1.2 Gbps
- Gigabit Ethernet port
- PoE: Full functionality with 802.3af
- AC adapter available

#### **Enterprise security**

- 802.1X and native Active Directory integration
- Air Marshal: real-time WIPS with forensics
- Stateful Layer 3-7 firewall
- Identity-based group policies
- Built-in antivirus scan (NAC)

#### **Guest access**

- 1-click secure guest access
- Guest isolation firewall

#### **RF optimization**

- Dual-concurrent, 2-stream MIMO radios
- Radios optimized for rate-vs-range performance
- Third radio dedicated to security and RF management
- Built-in real-time RF spectrum view

#### **Layer 7 traffic shaping**

- Classify hundreds of applications automatically
- Create per-application bandwidth limits
- Prioritize productivity apps
- Restrict or block recreational traffic

#### **CMX location analytics**

- Measure visitor capture rate, visit length, and repeat visit rate
- Measure visitor trends over time and compare performance across locations
- Enable location services through integrated iBeacon functionality

### **8 Port Switches for Wireless –**

#### Configurations

All models: 8 port gigabit Ethernet  
 All models: 2 × SFP for 1G uplink, non-shared  
 124 W PoE+

#### Hardware platform

Voice and Video QoS  
 Low noise, fanless  
 Non-blocking switch fabric  
 Ultra-reliable, includes lifetime warranty

#### Power over Ethernet

802.3at (PoE+) 25.5 W per port  
 maximum PoE output: 124 W  
 PoE available simultaneously on all ports  
 Intelligent PoE power allocation based on device advertisement (LLDP)

#### Monitoring and diagnostics

Cable failure testing  
 Gateway connectivity testing  
 Real time troubleshooting tools  
 Email and text message alerts

### **24 Port Switches for Wireless**

#### Configurations

All models: 24 port gigabit Ethernet  
 All models: 4 × SFP+ for 10G uplink, non-shared  
 includes 370 W / PoE+

#### Hardware platform

Voice and Video QoS  
 Low noise, fanless  
 Non-blocking switch fabric  
 Ultra-reliable, includes lifetime warranty

#### Power over Ethernet

802.3at (PoE+) 25.5 W per port



maximum PoE output: 370 W  
PoE available simultaneously on all ports  
Intelligent PoE power allocation based on device advertisement (LLDP)

Monitoring and diagnostics  
Cable failure testing  
Gateway connectivity testing  
Real time troubleshooting tools  
Email and text message alerts

Layer 3  
Dynamic routing (OSPFv2)  
Static routing  
DHCP Relay  
DHCP Server  
First of a kind UI-based configuration  
Easy to configure routed interfaces  
Warm spare redundancy (VRRP)  
DHCP Failover

#### **48 port Switches for Wireless**

Configurations  
All models: 48 port gigabit Ethernet  
All models: 4 × SFP+ for 10G uplink, non-shared  
includes 720 W / PoE+

Hardware platform  
Voice and Video QoS  
Low noise, fanless  
Non-blocking switch fabric  
Ultra-reliable, includes lifetime warranty

Power over Ethernet  
802.3at (PoE+) 25.5 W per port  
MS320-48FP maximum PoE output: 720 W  
PoE available simultaneously on all ports  
Intelligent PoE power allocation based on device advertisement (LLDP)

Layer 3  
Dynamic routing (OSPFv2)  
Static routing  
DHCP Relay  
DHCP Server  
First of a kind UI-based configuration  
Easy to configure routed interfaces

Warm spare redundancy (VRRP)  
DHCP Failover

**Accessories for Wireless Switches**

1 GbE SFP SX Fiber Transceiver  
Standard: 1000BASE-SX  
Range: 550m

10 GbE SFP+ Short Range Fiber Transceiver  
Standard: 10GBASE-SR  
Range: 400m

Twinax Cable with SFP+ Connectors (stacking cables)  
Standard: SFP+ Direct Attach (10GSFP+Cu)  
Range: 1m

## **LAN Switch Upgrade Specifications Part 3**

The Tunica County School District is requesting an all-inclusive solution including all applicable taxes, shipping costs, installation of equipment, configuration of equipment, any necessary cabling, training, technical support and trash removal, and represent complete installation and integration with the existing network where necessary. All equipment included in vendor's proposal must be new equipment purchased from an authorized reseller. No grey market, third party, or used equipment will be considered. Prices quoted in the vendor's response will remain in effect for a period of eighteen (18) months from the time of the contract signing.

The Tunica County School District proposes to use three types of switches in this project. Each of the 5 schools will have one or more fiber aggregation switch and one or more core switches that will be located in the building MDF and switches that will be located in various IDF locations in the buildings. The IDF switches will be primarily responsible for servicing wireless access points in the building and for computer lab and classroom connections near their location. They may have to process traffic from as many as 350 devices at a time. The IDF edge switches are included in the Wireless Project Part 2. The Fiber Aggregation and Core Switches are included in this section, Part 3. (Cisco 3850 Series or equivalent)

The core switches will process traffic for all devices in the building. This could be as high as 4000 devices at a given time.

For future expansion, we must be able to expand at least two ports on every switch proposed to 10 gig with additional licensing and the purchase of the necessary hardware. Neither 10 Gig licensing or additional hardware are to be included in this proposal.

The vendor will be required to configure all switches in this proposal. They will configure VLANs to the specifications of the Tunica County School District IT department as part of this proposal. Currently there are multiple VLANS operating on the district network. The Vendor will also be required to communicate with INLINE (or WAN and Internet vendor at time of installation) and work with CSPIRE (or WAN and Internet vendor at time of installation) so that the INLINE and C SPIRE (or WAN and Internet vendor at time of installation) owned and controlled WAN switch works properly with the VLAN configurations on the proposed switches.

If the same vendor does not win Part 2 (Wireless Project) and Part 3 (LAN Switch Upgrade), each vendor must be willing to work with the other awarded vendor on installation and configuration, so that the Wireless network and Wired network integrate and work seamlessly together.

Bid must include cost of configuration and installation and training on configuration and maintenance for the Tunica County School District's IT Department

## Switch Specifications

Proposed Switches (fiber aggregation and core) must be Cisco 3850 Series or equivalent. Proposal should include all switches, SFPs, licensing, cabling and Cisco Base needed for the project upgrades.

Switch proposal should also include all necessary UPSs to support the Erate eligible equipment. UPSs should be APC SMART-UPS OR APC-SMART UPS Compatible or equivalent.

All edge switches necessary for the Wireless Infrastructure are included in the Wireless Infrastructure Part 2.

## **Managed Services/BM Specifications Part 4**

In addition to the cabling upgrades and equipment purchases to include installation, configuration and training, the Tunica County School District is seeking proposals for Managed Services as defined in the 2015 Erate Eligible Services List for the Wireless LAN infrastructure. The district is also seeking Managed Services as defined in the 2015 Erate Eligible Services List for its Wired Network. The Wireless and Wired Managed Services Contract may be quoted separately or together as one contract.

The Tunica County School District as a separate proposal is seeking a Category 2 Basic Maintenance Contract as defined by the Erate Eligible Services List for 2015. This Contract is for Break/Fix type service only.

Both Contracts should be quoted as a Monthly Recurring Charge.

Contracts will have a 5 year term from July 1, 2015 through June 30, 2020. If the project is not funded until after July 1, 2015 the contract will be in effect from the day of notification of funding from USAC until June 30, 2020. The Tunica County School District will not be responsible for the Contracts Monthly Recurring Fees for months prior to a funding commitment from USAC in 2015. The contract is also contingent upon annual funding by USAC. If at any time during the contract term, USAC denies funding, the contract may be terminated without penalty.

Please provide a narrative describing your Managed Services to include remote network monitoring capabilities, reporting capabilities, trouble ticketing procedures, availability and response time if an engineer is required on site.

**Other Considerations**

The Tunica County School District welcomes proposals that may not meet these specifications exactly. However, such proposals must explain in detail how the alternative proposal will meet the general specifications of this RFP and why the district should consider such an alternative. If the explanation and reasoning satisfies both the District Administration and members of the IT department of the Tunica County School District, then the proposal will be considered as if it meets specifications.

**District Responsibilities**

- Clearly mark all IDFs and MDFs
- Provide IT personnel on-site during the installation process to answer questions and make needed decisions.
- Any responsibility specified for the district elsewhere in this document.

**Vendor Responsibilities**

- Remove all current Access Points, Arrays and network cables and move them to the Tunica County School District IT Department building at Rosa Fort High School in Tunica. If the current network cable is Cat 6 rated, then the provider may use it for the project. Most current cables are NOT Cat 6 rated.
- Install all proposed Access Points, Cabling, Patch Panels.
- Terminate all cables on both ends
- Provide Cat 6 Patch Cables to connect to the district switches.
- Provide power supplies if the chosen termination IDF does not have PoE switches.
- Configure system to accommodate up to 6 SSIDs if needed.
- Train designated district IT personnel to configure SSIDs and VLANS, update and maintain the system.
- Attach **YELLOW** Cat 6 patch cables provided by the vendor from the patch panel to the district switches
- Vendor is to provide Tunica Technology Department with a detailed digital excel spreadsheet with all new equipment installed and existing equipment to be removed to include models, serial numbers, Tunica County School District fixed asset barcodes, school, building, and room numbers.
- Any responsibility specified for the vendor elsewhere in this document.

**Current Equipment**

- All current equipment will remain the property of the Tunica County School District regardless of its use or non-use in the successful proposal.
- The vendor will be responsible for reconfiguration of the Tunica County School District’s existing switches if any switch configuration is required to make the new wireless system function properly or to integrate the LAN Switch upgrade with the existing equipment

**Current Network Bandwidth and WAN Configuration**

- Each building in the Tunica County School District is connected to each other via a switched 1G fiber optic WAN provided by INLINE.
- A Server is located at each school and centralized devices are located at the main network hub at Tunica District Office.
- Currently, the district has a 200 Mbps Internet connection that services the entire district. It also connects at Tunica District Office. The district receives Internet services from C Spire.
- Firewall and Filtering is provided by the Tunica County School District.

**E-Rate**

This proposal request is for services to be subsidized under the Universal Services E-Rate Program for Schools and Libraries. No purchase order will be issued, no installation will occur and no services will be provided until approval of the form 471 application that is issued as a result of the proposals being submitted in response to this request AND approval by Tunica County Board of Education for the school district’s Non-erate portion. If District funds are not available for the district portion, all contracts will become null and void and the project will not be implemented.

**Heat Map**

Proposals shall include a 5GHz HEAT Map or similar site survey of proposed access point placement and coverage area.

**Right to Reject**

The Tunica County School District reserves the right to accept or reject all proposals or sections thereof when the rejection is in the best interest of the school system. The Tunica County School District reserves the right to award without further discussion. Therefore, responses should be submitted initially with the most favorable terms the vendor proposes. The Tunica County School District reserves the right to reject the proposal of a vendor who has previously failed to perform properly or completed on time contracts and to reject the proposal of any vendor who in the opinion of the Tunica County School District Board of Trustees, is not in a position to adequately perform the contract. The Tunica County School District Board of Trustees reserves the right to reject any and all proposals, any part or parts of a proposal, waive any technicalities/informalities, increase or reduce quantities, make modifications or specifications, and award any or the entire contract in a manner that is in the best interest of the Tunica County School District. Contracts will be awarded for each part of the RFP to the vendor or vendors submitting the proposal determined to be in the best interests of the Tunica County School District.

**SITE VISIT INFORMATION FORM**

**(Type or Print ONLY)**

*(Vendors should bring this completed to the site visit)*

<b>NAME OF COMPANY</b>	
<b>ADDRESS OF HOME OFFICE</b>	
<b>CITY OF HOME OFFICE</b>	
<b>STATE OF HOME OFFICE</b>	
<b>COUNTY OF HOME OFFICE</b>	
<b>9 DIGIT HOME OFFICE ZIP</b>	
<b>PHONE # OF HOME OFFICE</b>	
<b>Federal EIN</b>	
<b>DUNS Number</b>	
<b>Erate SPIN number</b>	

**CONTACT Name** \_\_\_\_\_

**CONTACT Phone Number** \_\_\_\_\_

**CONTACT Email Address** \_\_\_\_\_

**By signing below, the vendor acknowledges that the prices listed on this sheet are the prices being bid for this project and that the vendor understands that portions of this Project may be funded from Erate Funds. This project is subject to funding availability and contingent upon Erate funding.**

**PRINTED NAME** \_\_\_\_\_ **TITLE** \_\_\_\_\_

**SIGNED** \_\_\_\_\_ **DATE** \_\_\_\_\_



# BID WORKSHEET

## PRICING INFORMATION (By School)

**(THIS DOCUMENT MUST BE THE TOP PAGE OF YOUR SUBMISSION)**

You may submit a standard quotation for EACH location rather than using this worksheet. **THEY MUST BE SEPARATED** into the 4 locations with a total for each. In either case you **MUST FILL IN THE TOTAL PRICE FOR THE ENTIRE ERATE ELIGIBLE PORTION OF THE PROJECT BELOW.**

Erate Eligible PROJECT TOTAL PRICE for Cabling \_\_\_\_\_

*(This is the total of all schools)*

Erate Eligible PROJECT TOTAL PRICE for Wireless Network \_\_\_\_\_

*(This is the total of all schools)*

Erate Eligible PROJECT TOTAL PRICE for LAN Switch Upgrades \_\_\_\_\_

*(This is the total of all schools)*

Erate Eligible TOTAL PRICE for Managed Service Contract \_\_\_\_\_

*(This is the total of all schools)*

Erate Eligible TOTAL PRICE for Basic Maintenance Contract \_\_\_\_\_

*(This is the total of all schools)*

**DO NOT INCLUDE PRICING FOR NIFs ON THIS PAGE – PRICING ON THIS PAGE IS FOR ERATE ELIGIBLE SERVICES AND LOCATIONS ONLY**

# Dundee Elementary Cabling

Manufacture Part Number	Description (Including Name of Manufacturer)	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

Total Number Drops: \_\_\_\_\_

# Tunica Elementary Cabling

Manufacture Part Number	Description (Including Name of Manufacturer)	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

Total Number Drops: \_\_\_\_\_

# Rosa Fort High School Cabling

Manufacture Part Number	Description (Including Name of Manufacturer)	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

Total Number Drops: \_\_\_\_\_

# Tunica Middle Cabling

Manufacture Part Number	Description (Including Name of Manufacturer)	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

Total Number Drops: \_\_\_\_\_

# Robinsonville Elementary Cabling

Manufacture Part Number	Description (Including Name of Manufacturer)	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

Total Number Drops: \_\_\_\_\_

## NIF Cabling

Manufacture Part Number	Description (Including Name of Manufacturer)	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

Total Number Drops: \_\_\_\_\_

## Dundee Elementary Wireless Project

Manufacture Part Number	Description (Including Name of Manufacturer	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

**Additional Costs**

Management Software cost for the **Erate Eligible** Devices Only \_\_\_\_\_

Current Annual Renewal fee for firmware upgrades of all **Erate Eligible** hardware quoted \_\_\_\_\_

Current Annual Renewal fee for software upgrades and patches for management software to service the **Erate Eligible** devices bid \_\_\_\_\_



## Tunica Elementary School Wireless Project

Manufacture Part Number	Description (Including Name of Manufacturer)	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

**Additional Costs**

Management Software cost for the Erate Eligible Devices Only \_\_\_\_\_

Current Annual Renewal fee for firmware upgrades of all **Erate Eligible** hardware quoted \_\_\_\_\_

Current Annual Renewal fee for software upgrades and patches for management software to service the **Erate Eligible** devices bid \_\_\_\_\_

# Rosa Fort High School Wireless Project

Manufacture Part Number	Description (Including Name of Manufacturer	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

**Additional Costs**

**Management Software cost for the Erate Eligible Devices Only** \_\_\_\_\_

Current Annual Renewal fee for firmware upgrades of all **Erate Eligible** hardware quoted \_\_\_\_\_

Current Annual Renewal fee for software upgrades and patches for management software to service the **Erate Eligible** devices bid \_\_\_\_\_

## Tunica Middle School Wireless Project

Manufacture Part Number	Description (Including Name of Manufacturer)	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

**Additional Costs**

**Management Software cost for the Erate Eligible Devices Only** \_\_\_\_\_

Current Annual Renewal fee for firmware upgrades of all **Erate Eligible** hardware quoted \_\_\_\_\_

Current Annual Renewal fee for software upgrades and patches for management software to service

the **Erate Eligible** devices bid \_\_\_\_\_

## Robinsonville Elementary School Wireless Project

Manufacture Part Number	Description (Including Name of Manufacturer	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

**Additional Costs**

Management Software cost for the Erate Eligible Devices Only \_\_\_\_\_

Current Annual Renewal fee for firmware upgrades of all Erate Eligible hardware quoted \_\_\_\_\_

Current Annual Renewal fee for software upgrades and patches for management software to service the Erate Eligible devices bid \_\_\_\_\_

# NIF Wireless Project

Manufacture Part Number	Description (Including Name of Manufacturer	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

**Additional Costs**

**Management Software cost for the Erate Eligible Devices Only** \_\_\_\_\_

Current Annual Renewal fee for firmware upgrades of all **Erate Eligible** hardware quoted \_\_\_\_\_

Current Annual Renewal fee for software upgrades and patches for management software to service

the **Erate Eligible** devices bid \_\_\_\_\_

# Dundee Elementary LAN Switch Upgrade

Manufacture Part Number	Description (Including Name of Manufacturer)	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

**Additional Costs**

Management Software cost for the Erate Eligible Devices Only \_\_\_\_\_

Current Annual Renewal fee for firmware upgrades of all **Erate Eligible** hardware quoted \_\_\_\_\_

Current Annual Renewal fee for software upgrades and patches for management software to service the **Erate Eligible** devices bid \_\_\_\_\_

## Tunica Elementary School LAN Switch Upgrade

Manufacture Part Number	Description (Including Name of Manufacturer)	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

**Additional Costs**

Management Software cost for the Erate Eligible Devices Only \_\_\_\_\_

Current Annual Renewal fee for firmware upgrades of all Erate Eligible hardware quoted \_\_\_\_\_

Current Annual Renewal fee for software upgrades and patches for management software to service the Erate Eligible devices bid \_\_\_\_\_

# Rosa Fort High School LAN Switch Upgrade

Manufacture Part Number	Description (Including Name of Manufacturer)	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

**Additional Costs**

Management Software cost for the Erate Eligible Devices Only \_\_\_\_\_

Current Annual Renewal fee for firmware upgrades of all **Erate Eligible** hardware quoted \_\_\_\_\_

Current Annual Renewal fee for software upgrades and patches for management software to service the **Erate Eligible** devices bid \_\_\_\_\_



## Tunica Middle School LAN Switch Upgrade

Manufacture Part Number	Description (Including Name of Manufacturer)	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

**Additional Costs**

**Management Software cost for the Erate Eligible Devices Only** \_\_\_\_\_

Current Annual Renewal fee for firmware upgrades of all **Erate Eligible** hardware quoted \_\_\_\_\_

Current Annual Renewal fee for software upgrades and patches for management software to service the **Erate Eligible** devices bid \_\_\_\_\_

# Robinsonville Elementary School LAN Switch Upgrade

Manufacture Part Number	Description (Including Name of Manufacturer)	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

**Additional Costs**

Management Software cost for the Erate Eligible Devices Only \_\_\_\_\_

Current Annual Renewal fee for firmware upgrades of all **Erate Eligible** hardware quoted \_\_\_\_\_

Current Annual Renewal fee for software upgrades and patches for management software to service the **Erate Eligible** devices bid \_\_\_\_\_

NIF LAN Switch Upgrade

Manufacture Part Number	Description (Including Name of Manufacturer)	QTY	Unit Price	Extended Price
<b>TOTAL for This Site:</b>				

**Additional Costs**

**Management Software cost for the Erate Eligible Devices Only** \_\_\_\_\_

Current Annual Renewal fee for firmware upgrades of all **Erate Eligible** hardware quoted \_\_\_\_\_

Current Annual Renewal fee for software upgrades and patches for management software to service  
the **Erate Eligible** devices bid \_\_\_\_\_

## Services and Maintenance

Dundee Elementary Managed Services Contract: \_\_\_\_\_/month

Number Hours or Days per Month if applicable \_\_\_\_\_

Dundee Elementary Basic Maintenance Contract: \_\_\_\_\_/month

Number Hours or Days per Month if applicable \_\_\_\_\_

Tunica Elementary Managed Services Contract: \_\_\_\_\_/month

Number Hours or Days per Month if applicable \_\_\_\_\_

Tunica Elementary Basic Maintenance Contract: \_\_\_\_\_/month

Number Hours or Days per Month if applicable \_\_\_\_\_

Rosa Fort High Managed Services Contract: \_\_\_\_\_/month

Number Hours or Days per Month if applicable \_\_\_\_\_

Rosa Fort High Basic Maintenance Contract: \_\_\_\_\_/month

Number Hours or Days per Month if applicable \_\_\_\_\_

Tunica Middle School Managed Services Contract: \_\_\_\_\_/month

Number Hours or Days per Month if applicable \_\_\_\_\_

Tunica Middle School Basic Maintenance Contract: \_\_\_\_\_/month

Number Hours or Days per Month if applicable \_\_\_\_\_

Robinsonville Elementary Managed Services Contract: \_\_\_\_\_/month

Number Hours or Days per Month if applicable \_\_\_\_\_

Robinsonville Elementary Basic Maintenance Contract: \_\_\_\_\_/month

Number Hours or Days per Month if applicable \_\_\_\_\_

NIF Managed Services Contract: \_\_\_\_\_/month

Number Hours or Days per Month if applicable \_\_\_\_\_

NIF Basic Maintenance Contract: \_\_\_\_\_/month

Number Hours or Days per Month if applicable \_\_\_\_\_

## Required Documents

Specifications for the proposed hardware and software

Current liability insurance and workers compensation insurance

Completed Reference Forms

Documentation of the vendor's switching, wireless and cabling certifications

Coverage survey or heat map for all Erate eligible buildings

Certificate of Responsibility

Erate SPIN number

Qualifications and training of vendor technical staff

If the proposal does not meet the stated specifications, the vendor must include a detailed proposal along with a detailed explanation as to why the vendor believes the proposal will meet the stated needs of the Tunica County School District and why the district should consider their proposal.

**References**

Name of Client / Company	
Contact Name	
Contact Phone Number	
Contact Email Address	
Description of project	

Name of Client / Company	
Contact Name	
Contact Phone Number	
Contact Email Address	
Description of project	

Name of Client / Company	
Contact Name	
Contact Phone Number	
Contact Email Address	
Description of project	

# Wiring Information

## All Buildings

### Drop Ceilings

Cable can be bundled without any conduit but it must be off the ceiling using hooks.

### Open Ceilings

The cable may be run out-of-sight along the beams if needed.

### Walls

If cable is run along an open wall, it must be in Ivory Panduit or similar enclosure.

### Cable

Cable must be the same color throughout the district and it must not be either Blue or White. Cable must be rated as Cat 6.