

North Tippah School District

Request for Proposal: FY2015 E-Rate Eligible Services

Resulting from USAC Form 470 #169850001251178

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Subject

The subject of this document is to outline specifications for bidding on communications network services and equipment provided to North Tippah School District that are covered under the E-Rate 2015 Eligible Services List. A summary of the services is outlined in the table below. Detailed information about each service requested is in the appropriate section.

Section	Service
Voice Services	Managed VOIP Service
Voice Services	Phone Service via SIP Trunks
Wifi Services	Managed Wifi Service
Wifi Services	Turnkey Wifi Solution
Wifi Services	Wifi Hardware/Software Only
Fiber Optic Internal Connections Upgrades	Install Fiber Optic Closet Connections
Basic Maintenance	Basic Maintenance of IC
Firewall and Caching Server	Firewall and Caching server, including installation and configuration

Proposal Forms

Do NOT fax or email proposals. This policy is to ensure fairness and transparency in the competitive bidding process. Sealed proposals must be received at the following address before the closing date. Express deliver* or hand deliver proposals and supporting documentation to:

Nick Hopper
Director of Technology & Federal Programs
24111 HWY 15
Tiplersville, MS 38674

*USPS does not deliver to this address

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Schedule of Events

Event	Date
File form 470 with USAC	11/13/2014
Release of RFP to vendors via website and MS Bid Bank	11/18/2014
Pre-bid conference at Walnut Attendance Center Auditorium*	12/2/2014, 12/9/2014 9AM
Last day to submit questions for clarification	12/11/2014
Addenda issued for clarification	12/12/2014
Deadline for submission of proposals	12/18/2014 12 NOON
Opening of proposals (North Tippah District Office)	12/18/2014 12 NOON
Submit bid selections to Board for approval	1/8/2015
Submit contracts to Board for approval	1/8/2015
Submit Form 471 to USAC	Mid-January 2015
Begin work on projects subject to E-Rate funding approval	April 2015
All work to be completed	8/1/2015

*Pre-bid conference requirement may be waived if walkthroughs have been performed for similar projects within the past 36 months.

Inquiries

All correspondence and inquiries regarding this RFP must be done via email to nick.hopper@ntippah.k12.ms.us. If a vendor does not receive a response within 24 hours, it is the responsibility of the vendor to call Nick Hopper at 662-576-1001 (cell) or 662-223-4384 ext. 12 (office) and confirm that the email message was received. Please note that all inquiries shall be made public in the "Comments" section of the RFP website at www.ntippah.k12.ms.us/rfp.

General Conditions of Contract Award

1. E-rate approval by USAC
2. Provider must have USAC SPIN and have current USAC SPAC on file
3. References of at least two installations of similar application size and complexity
4. Must be able to secure any necessary permits
5. Must meet all FCC requirements for vendors providing telecommunications as defined in the E-Rate Eligible Services List for 2015
6. Lowest and best bid with price being the primary determining factor
7. Vendors must attend pre-bid conference at Walnut Attendance Center auditorium at 9 AM on a scheduled date, unless they have conducted a walkthrough for similar projects within 36 months.

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General Specifications

1. Location of Sites

The location of the work is on property owned by the North Tippah School District and through negotiated services on right-of-ways.

Name	Address	City/State/Zip
North Tippah School District	24111 HWY 14	Tiplersville, MS 38674
Chalybeate Elementary School	2471 HWY 354	Walnut, MS 38683
Falkner Elementary School	20771 HWY 15	Falkner, MS 38629
Falkner High School	20350 HWY 15	Falkner, MS 38629
Walnut Attendance Center	280 Commerce Ave.	Walnut, MS 38683

2. Scope of Work

It is understood that, except as otherwise specifically stated in this RFP, the vendor shall provide and pay for all materials, labor, tools, equipment, transportation, temporary construction of every nature and all other services and facilities of every nature whatsoever, necessary to execute, complete and deliver the work within the specified time. Licenses necessary for the execution of the work shall be secured and paid for by the vendor.

Any work necessary to be performed after regular working hours, on weekends or legal holidays, shall be performed without additional expense to North Tippah School District, unless the weekend or holiday work due to a delay caused by the district. The vendor will be fully responsible for securing all required right-of-ways, construction permits and cross connects required to complete this project unless specifically stated otherwise.

3. Protection in General

The vendor shall protect all buildings, furniture, equipment, personal items, trees, shrubs, lawns and all landscaping on school property from damage. Any damaged property shall be repaired or replaced at the vendor's expense. Labor shall include all restoration (leveling, sod replacement) of grounds broken up during the installation of this network.

4. Change in Contract

North Tippah School District will not be responsible for any change in the work involving extra costs unless approval in writing is furnished by the district before such work is begun.

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5. Existing Conditions

The vendor, in submission of this proposal, will have visited the premises and will be assumed to have taken into consideration all conditions which might affect this work. No consideration will be given to any claims based on a lack of knowledge of existing conditions. Campus tours will be available on the days of pre-bid conferences.

6. Insurance

Within seven days after notification of award, the vendor shall furnish to North Tippah School District a Certificate of Insurance showing compliance within the following limitations:

- a. The vendor agrees to comply with the provisions of Worker's Compensation Laws of the State of Mississippi.
- b. It shall be stated on every policy or Certificate of Insurance, as the case may be, that "The insurance company agrees that the policy shall not be canceled, changed, or allowed to lapse until ten (10) days after North Tippah School District has received written notice as evidenced by the return receipt of registered mail, and it is agreed further that as to lapsing, such notice will not be valid if mailed more than fifteen (15) days prior to the expiration date shown on the policy."
- c. The vendor shall maintain other insurance (with the limits shown below) that shall protect the vendor and North Tippah School District from any claim for property damage or personal injury, including death, which may arise out of operations under this contract, and the vendor shall furnish the district with certificates and policies of such insurance as follows:
 - i. *The District Protective Liability Insurance:* Personal injury, including death, limits of \$1,000,000.00 for each person and \$1,000,000.00 for each accident.
 - ii. *Vendor's Public Liability Insurance:* Personal injury, including death, limits of \$1,000,000.00 for each person and \$1,000,000.00 for each accident.
 - iii. Property Damage limits of \$100,000.00 for each accident and \$500,000.00 for the aggregate.

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7. **Workmanship**

All work shall be performed in a professional manner. Personnel from North Tippah School District may observe the work procedures and workmanship of the vendor. However, such observation will not relieve the vendor from any responsibility of performance or constitute acceptance of the work performed.

8. **Warranty**

The vendor shall furnish a written warranty that describes the services proposed under these specifications. It is understood that the vendor is not responsible for the warranty/function of existing equipment already installed at the schools. However, limited troubleshooting of existing equipment or cabling will be provided by the vendor free of charge to determine if the existing equipment or cabling can be reutilized. The vendor must also show proof that their employee(s) are certified to install the proposed cabling components and electronic equipment, as assurance that a warranty can be provided.

9. **Financing**

The vendor will provide a binding contract to North Tippah School District for submission to the Schools and Libraries Division. After notification of award from the Schools and Libraries Division, the vendor will receive a purchase order for the products and services for which the vendor will be responsible as a result of this RFP. This purchase order will show the amount that is the responsibility of the local school system. The issuance of any purchase order will be contingent upon approval by USAC. Complete payment to the vendor will be subject to the rules of the Schools and Libraries Division (SLD). After notification by the Schools and Libraries Division (USAC Fund Administrator) of the acceptance of the contract, the contingency will be removed and the Purchase Order will be submitted to the vendor in accordance with the rules and regulations of the SLD. North Tippah School District shall be under no financial obligation to the vendor until the purchase order is submitted.

10. **Lease**

In the case of leased equipment, contractual terms of the lease must be provided with the vendor's bid. The term "lease" is used to refer to contractual arrangements whereby the ownership of the property remains with the service provider, as stipulated in the SLD Fact Sheet on Internet Services Connectivity, 2/24/98, page 1. The SLD has stated that it will not commit to discounts on a contract that is titled or described as a lease

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when in effect the terms of the agreement constitute a purchase. For example a lease, which includes up-front payment of capital costs, will not be eligible for discounts.

11. **Application for Payment**

All applications (invoices) for payment shall be submitted to North Tippah School District according to the USAC regulations. The vendor must submit a Service Provider Invoice for processing of the discounted portion of the bill.

12. **Addenda**

Any addenda issued after the issue of this RFP shall be delivered to all parties who complete or have completed the mandatory walkthrough within 24 hours of issuance or upon completion of the walkthrough. The addenda shall also be posted on the RFP website

If any questions arise within the RFP documents, the vendor may submit to the district a written request for interpretation. Any interpretation of documents will be made by addendum to the RFP. Copies of any addendum will be emailed to the contact for each vendor that has completed the mandatory site visit. North Tippah School District will not be responsible for any other explanation or interpretations. The district reserves the right to reject any or all proposals and waive technicalities and formalities.

13. **Proposal Submittal**

In order to be eligible for submission of a quote, the vendor must attend a pre-bid conference. Walkthroughs for district projects of similar scope within the past 36 months will be honored.

Two copies of the proposal package must be sent in a sealed envelope clearly marked with the words "ERATE RFP Response 2015" to the address noted on page 4 of this document. A copy of a sample or proposed service contract is also required. Please include an electronic copy of all documents as well, in PDF or MS Office Document formats. All proposals will be opened at 12:00 PM CST on December 18, 2014 in the North Tippah School District Office.

Due to the nature and diversity of the proposals, a significant amount of time may be required to determine which proposal provides the best option for North Tippah School District. The possibility is that the best option will involve district purchased equipment that may or may not be E-Rate eligible or may or may not be part of this proposal could

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significantly delay the evaluation process. The evaluation process will not be complete until the district has determined the best proposal based on all factors.

14. **Withdrawal of Proposal**

A proposal cannot be withdrawn after it is filed, unless the vendor makes a request in writing to the North Tippah School District prior to the time set for the opening of submitted proposals. The district will accept no quotes after the deadline for submission of proposals

15. **Vendor Qualifications**

The vendor must provide proof of registration with the (SLD) for reimbursement under E-Rate guidelines for Priority One Services. If the vendor fails to file the appropriate forms with the SLD or fails to receive an SLD Vendor Number, North Tippah School District is not responsible for the discounted portion of the vendor's bill. The vendor must generate an invoice for the USF portion of the bill in accordance with SLD regulations. The vendor is responsible for supplying SLD SPIN with the quote. The vendor must hold a General Contractors License in the State of Mississippi. A legible copy of the license must be attached and noted.

It is preferred that the vendor has been in business for at least 5 years. A legible copy of incorporation papers must be attached and noted. Vendors must give examples of experience with installation of similar projects that have equal scope. Vendor must give examples and contact information for at least two such installations.

16. **Stored Materials**

Any materials stored on job site shall be the vendor's responsibility.

17. **Specifications**

Complete specification details for all products being proposed must be provided as part of the RFP response package (proposal).

18. **Time of Completion**

Work must be completed and operational by August 1 2015, presuming the vendor is selected, contract signed and E-Rate forms are submitted by the district in a timely manner.

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19. Accident Prevention

Precautions shall be exercised at all times for the protection of persons (including employees and students) and property and hazardous conditions shall be guarded against or eliminated. The North Tippah School District or the building principal will determine what constitutes a hazardous condition on any campus and the vendor will be responsible for rectifying the issue to the satisfaction of the district.

20. Contract Form

Upon contract award and a binding contract signed, the standard written purchase order form will be issued to the successful vendor. Issuance of the purchase order will be contingent upon USAC acceptance and funding of the project.

21. Indemnification

The vendor agrees to hold the district harmless and to indemnify the district for every expense, liability or payment arising out of or through injury (including death) to any person or persons or damage to property (regardless of whom the owner may be of the property) of any place in which work is located arising out of or suffered through any act or omission of the vendor or subcontractor

22. Vendor Representatives

North Tippah School District reserves the right, with sole discretion, to refuse to allow any representative of the vendor to service the contract in any manner. In this event, the vendor shall furnish another representative that is acceptable to the district. Should the vendor use subcontractors for portions of the work, North Tippah School District reserves the right to reject any subcontractor without explanation or recourse by the vendor or subcontractor. Examples of reasons for refusing to allow a vendor representative to service the contract include, but are not limited to:

- a. Use of profanity or abusive language around any school personnel or students.
- b. Unclean or unkempt appearance.
- c. Intoxication or obvious drug use.
- d. Threatening behavior towards any school personnel or students.

23. District Regulations

The vendor and his representatives shall follow all applicable school district regulations while on North Tippah School District property, including the no smoking, no weapons, and drug free policies. No work shall interfere with school activities or environment unless the principal or person in charge gives permission. All vendor personnel shall be

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easily identified by the use of identification badges and uniforms or shirts with the vendor's logo clearly visible provided at the vendors expense.

24. **Governing Law**

All RFPs and related documents submitted to North Tippah School District by the vendor are governed under the laws of the State of Mississippi

25. **Comprehensive List of References**

All references should include: a contact person, dates of work, mailing address, email address and telephone numbers. References must include two (2) or more references of installations of similar size and complexity within the tri-state area of Mississippi, Tennessee and Alabama.

26. **District Reservations**

- a. Give full and proper consideration to the service, reputation, product knowledge, and experience of all companies presenting proposals, and to disqualify any such vendor it deems unqualified to provide the services requested
- b. Reject any and all proposals if deemed necessary
- c. Accept any alternative proposal believed to be in the best interest of the district
- d. Waive any formality in the quote submission
- e. Cancel any awarded bid if the service proves unsatisfactory

27. **Price Quotations**

Price quotations are to include a detailed description of materials, equipment, maintenance, shipping costs, delivery, installation, drawings and the provision of all labor and services necessary or proper for the completion of the work as may be otherwise expressly provided in the contract documents. North Tippah School District will not be liable for any costs beyond those proposed herein. Please be advised that public schools are specifically exempted from the payment of Mississippi Sales Tax. In case of discrepancy in computed proposal prices, the unit price shall govern and the total price shall be revised accordingly.

28. **Variation in Quantities and Configuration**

North Tippah School District reserves the right to modify quantity and configuration requirements. The vendor agrees to sell the district the revised quantity of items at the unit price stated in the proposal regardless of quantity changes.

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29. **Terms of Payment**

The start of services for this project may not begin prior to July 1, 2015. North Tippah School District will, if possible, issue an SLD Form 486 on the day services begin. For the duration of the contract, payments will be made on the Friday following the monthly meeting of the North Tippah School District Board of Education, which is held on the second Thursday in each calendar month.

30. **Terms of Contract and E-Rate Discount**

Payment for North Tippah School District's projects is dependent on E-Rate subsidies. The district will file for the E-Rate subsidies. Contract is contingent upon E-Rate funding and the district shall be under no financial obligation to the vendor until E-Rate funding has been approved.

District Responsibilities

1. **Access for Installation**

North Tippah School District, during the progress of the installation, will allow the vendor access to the premises and facilities at all reasonable hours or at such hours as the district representative and the vendor agree upon.

The district will provide access to existing conduit or the placement of new conduit if necessary to all work locations, floors, buildings, etc., to support the media installation and provide vendor access to these adjacent areas where and when required.

2. **Documentation**

The district will provide network drawings and detailed building plans on the RFP website www.ntippah.k12.ms.us/rfp. The district shall also provide such documentation at the pre-bid conference.

3. **Heating/Cooling**

Provide heat or cooling when required and general illumination in rooms where work is to be performed by the vendor.

4. **Electrical**

The district will provide all electrical needs within the district buildings.

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5. Delay in Work

It is understood that the vendor will not be held accountable for any delays caused by North Tippah School District.

6. Inspections

Promptly make inspections when notified by the vendor that the equipment or any part thereof, is ready for acceptance.

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Vendor Responsibilities

1. **Provision**

The vendor must provide all supervision, tools, equipment, hardware and wiring materials as specified, transportation, erection, construction, unloading, inspecting, and keeping inventory as specified in attached contract documents. Whenever in the contract the terms "provide, furnish, supply, install, etc.", can be interpreted as requiring the vendor both to furnish and/or install materials, unless specific provisioning/installation of the materials by the district is denoted.

2. **Firewalls**

Provide for the installation of all conduits and sleeves through firewalls and application of fire-stopping materials as required to meet code.

3. **Ceiling Tiles**

Provide for the removal and reinstallation of all ceiling tiles as needed. Any broken ceiling tiles will be replaced with equal or better quality of the damaged ceiling tiles.

4. **Identification**

The vendor will identify to the district any work necessitating cutting into or through any part of the building structure such as girders, beams, concrete, tile floors or partition ceilings.

5. **Permits**

The vendor shall obtain all necessary county, municipal, and/or state work/building permits. This includes any permits that may be needed to gain the right of way for outside cabling.

6. **Damage**

The vendor will be responsible for repairs of damage to the building, roads, equipment, existing cable, or property. The vendor will promptly report to a representative of the district any such damage to the building, roads, equipment, existing cable, or property that may occur while performing work in the facilities.

7. **Installation**

Install the wire, cable, and/or associated hardware in accordance with the manufacturer's specifications. All cabling and equipment shall be sufficiently labeled

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such that the equipment designation or purpose, interconnections and cabling endpoints can be easily determined. All labeling shall correspond with the drawings provided in Item 15 below.

8. **Test and Inspections**

Conduct tests and inspections in the presence of district technical representative(s) after installation has been completed in order that the district may be assured that the requirements for the installation are met.

9. **Completion Notification**

Promptly notify the district designated contact of completion of this proposed project.

10. **Defects**

The vendor will promptly correct all defects for which the vendor is responsible.

11. **District Contact**

The vendor must coordinate all work with the district's designated contact.

12. **Cleanup**

Upon completion of the work each day, the vendor must remove all tools, equipment, rubbish and debris from the premises and must leave the premises clean and neat and in the same condition as it was found.

13. **Subcontractors**

The vendors may use subcontractors to perform work. However, all responsibilities rest with the vendor.

14. **Testing**

The vendor will provide North Tippah School District with complete detailed test results. The test results must be delivered to the district before payment.

15. **Drawings**

The vendor shall furnish, with the quote, a complete set of drawings showing the design of the infrastructure and the interconnection of all equipment installed. The drawings will also include the location of existing electronic equipment utilized in the new installation. The drawings should indicate if any fiber is run above or below ground.

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16. **Warranty**

The system outlined in this RFP is to be provided as an E-rate funded telecommunication service and requires the vendor to provide complete maintenance and warranty the system in full.

17. **Codes, Standards, and Ordinances**

All work shall conform to the latest edition of the National Electrical Code, the Building Code, and all local codes and ordinances, as applicable. ANSI/TIA/EIA-568-A and ANSI/EIA/TIA-569 shall be adhered to during all installation activities. Methodologies outlined in the latest edition of the BICSI *Telecommunications Distribution Methods Manual* shall also be used during all installation activities. Should conflicts exist with the foregoing, the authority having jurisdiction for enforcement will have responsibility for making interpretation

18. **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) that may be imposed on The Customer because of the vendor, subcontractor, or supplier's failure to comply with the regulations stated herein.

19. **Patents and Royalties**

The vendor, without exception, shall indemnify and hold harmless the district 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 district. If the vendor or subcontractor uses any design, device, or material 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.

20. **USAC Certifications**

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The vendor must be an approved USAC service provider with a current SPIN and SPAC. It will be the responsibility of the vendor to maintain all USAC certifications throughout the term of the contract.

21. **Indemnification**

The vendor shall indemnify and hold harmless the district, its agents and 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 or any negligence (excluding negligence by North Tippah School District, its agents, or employees) in connection with the same; or by use of any improper material 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 district, its agents 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 district'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 district 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 said vendor to comply with the foregoing indemnity provision; however, the collateral obligation of insuring this indemnity must be complied with as set forth.

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Proposal Requirements

Attachments to be submitted

- Completed Vendor Information Workheet
- 2 References for similar installations as described in the specifications (included in Vendor Information Worksheet)
- Full Description of the equipment and services to be provided
- Diagram of proposed network changes if applicable
- Copy of Mississippi contractor's license or COR if applicable
- Description of help desk and service response procedures
- Warranty Documentation

Special Instructions

1. Include two copies proposal packet documentation
2. Include a copy of proposed service contract resulting from bid response
3. Include electronic copy of proposals and contract (PDF or MS Office Documents) on CD or USB drive
4. Proposals must be sealed and clearly marked with "ERATE RFP Response 2015"
5. Proposals must be received by 12:00 PM CST on December, 18 2014
6. Vendors may bid more than one service in the same proposal packet
7. DO NOT fax or email proposals

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Voice Services

The North Tippah School District is seeking bids on voice services. As E-Rate will be phasing out the discounts for voice services over the next 3 years, we would like to consider voice communication options that will continue, or improve, our current level of services while lowering the total cost. We are considering three options at this point. Any vendor may bid on any option. All options shall be considered when determining the solution that best supports the district's needs within the allowable budget.

Three options for voice services in no particular order:

- Continue with POTS service and antiquated phone systems (No bid, we will continue to use the state contract pricing)
- Purchase hosted VOIP services
- Purchase new phone systems outright and SIP trunks for phone service

North Tippah has a robust point-to-point gigabit fiber network connecting campuses to the central office. 100 Mbps internet is available at the central office. Upgrades in switching and wireless are proposed for this funding year as well. We would like to run all voice services over the existing network WITHOUT dedicating bandwidth for voice services.

Managed (Hosted) VOIP Service

The specifications provided in this section are intended to convey the characteristics the District desires for Hosted VoIP phone service. This RFP is NOT seeking quotes for a District owned phone system, but rather for phone service. The District does not seek to purchase, own or maintain an in house phone system, but rather issues this section of the RFP for phone service that provides the most up to date VOIP features and functionality as a hosted service with equipment ownership, maintenance and service remaining with the service provider.

Site	# of Extensions	Executive Phones	Standard Phones	# Fax Lines
NTSD District Office	6	6	0	1
Chalybeate Elem.	8	3	5	2
Falkner Elem.	8	2	6	2
Falkner High	10	4	6	2
Walnut Att. Center	18	7	10	4

- Hosted VoIP Service will use the current District phone numbers at all locations
- Hosted VoIP Service will provide four-digit dialing between rooms and facilities; Call Forwarding, both inside and outside of the system; Call Routing System; Call Transfer and Redial; Caller ID, both the caller and receiver, provided the receiver has this feature enabled on their phone.
- Hosted VoIP Service will provide Enhanced 911 (E 911)
- Hosted VoIP Service will provide Centralized Voice Mail Solution that can be used transparently by all locations, and the ability for all locations to appear to be part of a single phone system, as

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well as, Voice Mail that is accessible from inside and outside of the District

- Hosted VoIP Service will provide analog ports (or acceptable solution) for fax
- Hosted VoIP Service will include in-state/out-of-state long distance service; cost for this service must be included in the quote
- Hosted VoIP Service will meet the requirements of Priority 1 eligible E-Rate funding
- Hosted VoIP Service will provide Centralized Call Detail Reporting (CDR) system to report calls being made and where the call originated
- Handsets must be SIP compliant
- VoIP gateway service
- PSTN (public switched telephone network) interfaces; The PSTN interface offers a link from the IP infrastructure to the public switched telephone network to provide both connectivity to the analog phone network
- Respondents should possess and use their extensive knowledge and experience within the communications industry to recommend a creative solution that will meet or exceed the School District's requirements
- Preference will be given to the vendor that provides a comprehensive, cost-effective solution for current specifications, future School District requirements, and ongoing service and support

Phone Services via SIP Trunk

Companies providing SIP Trunk responses should include a quote for 20 SIP trunks and include a list of standard features. A list of all one time charges should be included with proposal. A list of additional monthly charges should also be clearly detailed in the quote. The district must be able to retain current phone numbers at all locations. As stated, the RFP is for phone services only. A phone system will be purchased separately when a determination is made about the best route for voice services.

North Tippah School District

Wifi Services

The North Tippah School District is seeking bids on wifi network equipment. We would like to look at three options. All three options will need to meet the same specifications. Any vendor may bid on any option(s). All options shall be considered when determining the solution that best supports the district's needs within the allowable budget. Our goal is to build an infrastructure that will support bandwidth demands from wired and wireless devices for the next five years.

Site	# Classrooms	# Students	# Staff	# Com. Areas	# IDF Closets
Chalybeate Elem.	21	280	32	4 + 1 outdoor	8
Falkner Elem.	24	300	38	2	6
Falkner High	22	250	30	3 + 1 outdoor	8
Walnut Att. Center	34	500	46	4 +1 outdoor	10

Specifications are as follows:

- All classroom spaces must support at least 25 device connections simultaneously
- All non-instructional spaces must support 10 device connections simultaneously
- All common areas (cafeteria, gymnasium, multipurpose) should support 200 device connections simultaneously
- Each connected device should have available throughput of 10 Mbps
- All educational areas, office spaces and common areas have a minimum RSSI of -65 dBm (in both the 2.4 GHZ and 5 GHZ bands) in all locations of those areas
- System must be capable of being centrally managed without a single point of failure
- Controller based and controller less options will both be considered
- System must meet IEEE 802.11ac standards
- All necessary switching and racks to support wireless equipment should be included in quote
- Switches should be layer 3, gig capable, POE (POE+ if access points meet that power requirement)
- Cabling should be category 6 or better
- New cabling runs to support access points must include three cables (two are necessary to take full advantage of AC gig+ speeds, with one spare)
- Cabling should have j-hooks or cable trays for support as needed
- Cables runs and terminations shall conform to BISC standards
- All wired network drops must continue to serve wired clients
- Cables should be labeled with pre-printed vinyl labels
- Identify all costs for five years and whether they are E-Rate eligible

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Managed Wifi Service

This service meets the included specifications. It is no-touch on the part of the district. It should be configured and ran as a service that we would pay for on a monthly basis. Quotes should include cost for eligible and ineligible services. Please include three and five year contract options with equipment buy-out costs.

Turnkey Wifi Equipment, Installation and Configuration

This proposal would include all hardware, installation, configuration and testing. Quotes should include costs for eligible and ineligible services. Proposals should include all one-time and ongoing costs for the five year period.

Wifi Equipment (Hardware and Software Quote Only)

This proposal would include all necessary hardware and software components to meet the included specifications. Hardware would be shipped to the North Tippah School District. Proposed network diagrams would also need to be included with this option. Installation will be completed by personnel on staff with the district or contracted at a later date.

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Fiber Optic Internal Connections Upgrades

North Tippah School District seeks a proposal to interconnect all IDF closet switches to the MDF closet switches via multi-mode fiber optic cabling. This is necessary to support current and future bandwidth demands. The current cabling is Category 5E. Many instances are outside of minimum industry specifications. This has caused trouble keeping our internal network performing at high speed data rates.

- IDF closets should be connected to MDF closets via homerun with 12 conductor multi-mode fiber optic cabling
- Cables are to terminate into a junction box with LC type connections nearby the rack/switch in the closet
- Conduit must be supplied where required
- In building cabling should include j-hooks or cable trays as required
- Inter-building cabling can be ran aerial or buried, but should be rated for the correct application and installed according to manufacturer specifications
- Intra-building cabling between MDF and IDF closets must be upgraded to fiber optics
- The district shall obtain pole rights if needed for this project as it will be confined to school-owned property
- SFP modules and fiber jumper cables for current switches should be quoted for (65) 3com 4210 Network Switches x 2 SFP ports each

Site	# Classrooms	# Buildings	Location of MDF	# IDF Closets
Chalybeate Elem.	21	7	Tech Prep Bldg.	8
Falkner Elem.	24	5	Main Building Office	6
Falkner High	22	7	Tech Prep Bldg.	8
Walnut Att. Center	34	8	HS Office	10

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Basic Maintenance of Internal Connections

North Tippah School District is seeking a contractual agreement for the Basic Maintenance of Internal Connections. The contract should include skilled labor charges for network maintenance of category two eligible equipment. Hardware prices can be quoted at the time of need. Technicians should be available for work on site within 24 hours of an emergency situation and ten working days in a normal maintenance situation. An emergency situation is where an individual or group of individuals is unable to access network resources. Invoicing and payment shall take place as maintenance services are rendered. Based on past experience, it is estimated the district should need around 250 hours of skilled labor per year.

Maintenance will include:

- Connectivity troubleshooting (wired and wifi)
- Configuration and reconfiguration of equipment as needed
- Moves, add or changes in network wiring and equipment
- Other routine network maintenance activity

Network Summary (numbers are approximate):

- 65-3com 4210 Network Switches
- 1400- Copper (Cat 5E) network drops
- 5 MDF Closets & 31 IDF Closets
- Racking and enclosures for network closets
- Proposed wireless upgrades consist of 50 wireless AP's and supporting POE switches
- Proposed fiber upgrades between buildings
- Proposed caching and firewall upgrades

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Firewall and Caching Server

The North Tippah School District seeks bids on a firewall solution. The solution must meet the specifications of the Fortigate 500D or equivalent. The brand of the firewall is not of importance. However, it should meet the specifications outlined and be compatible with current network infrastructure. Quote should include installation, configuration, one-time costs, and ongoing costs for five years.

We are also seeking bids for a caching server solution. Bandwidth demands are expected to increase as more student devices are allowed on the network. The solution must meet the specifications of the FortiCache 1000D appliance or equivalent. The brand of the caching server is not of importance. However, it should meet the specifications outlined and be compatible with current network infrastructure. Quote should include installation, configuration, one-time costs, and ongoing costs for five years.

North Tippah has a robust point-to-point gigabit fiber network connecting campuses to the central office. 100 Mbps internet is available at the central office. We are currently using ClearOS installed on a CISCO appliance for firewalling. We have upgraded filtering within the past year with an IBOSS appliance. DHCP servers are on location at each campus. There is a probability that wireless controllers will be installed on the network in the coming year as well. Upgrades in switching and wireless are proposed for this funding year.