

**Request for Proposals E-Rate
Wireless Infrastructure Project
NETTLETON SCHOOL DISTRICT**

**E-Rate Wireless Infrastructure Project
(Description)**

The Nettleton School District is accepting proposals to install and upgrade network infrastructure to provide for higher capacity and more reliable wireless internet connectivity. The equipment installed must at a minimum support 30 simultaneous devices within each classroom and at least 100 devices in common areas such as meeting rooms and be scalable for future demands.

Access points should be of sufficient capacity to handle moderate bandwidth usage including high quality video and audio.

The networking equipment must cover all ERATE eligible campus facilities and provide seamless roaming capability.

The vendor holds all responsibility in ensuring that the equipment it provides meets the performance requirements of this proposal. The Vendor will be responsible for meeting these requirements including if manufacturer defects in the equipment installed causes sub optimal performance.

Submitted Proposals must include Access Point locations and coverage maps for each facility.

General

The Specifications of this proposal are provided as guidelines and may or may not include all of the items needed for complete installation.

Submitted quotes should include 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. All items quoted must be new first quality items. Vendor submitted prices will be locked for a period of 18 months.

Should the vendor have any questions, concerns, or suggestions they will contact Anthony Alred at aalred@nettleton.k12.ms.us or by phone at 6629631512.

Bid Submission Guidelines

Bids will be opened on _____ in the Technology Office of Nettleton School District

Submitted bids must be sealed and clearly marked: "NSD E-Rate Wireless Infrastructure Project"

Improperly marked bids will not be accepted.

Bids must include the following:

- All bids must be Broken Down by School, Building, and if possible Room.
- Bids must comply with all E-Rate regulations and be organized in a way that will ease E-Rate application process.
- If possible bids should contain coverage maps and proposed equipment locations.
- Non E-Rate eligible equipment/costs, if any must be clearly labeled and separated from eligible items.
- The first page of the BID Proposal must contain a summary of Project Costs including:
 - Total E-Rate eligible Project cost for overall project
 - Total E-Rate eligible Project cost for each School
 - Total of NON E-Rate eligible COST for each School if any

Questions

If the Vendor has questions related to this RFP they may contact Anthony Alred at aalred@nettleton.k12.ms.us or 662-963-1512. Updated information on the RFP along with building maps can be found at www.nettletonschoools.com on the left side of the main page under the BID INFORMATION link.

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 Nettleton School District School Board will award a contract based the vendor whose bid best serves the needs of the school district in relation to future growth, RFP The following factors will be considered when evaluating responses:

- Price (to include base price, renewal fees and additional support fees.)
- Preference will be given for prior positive experience with the Vendor.
- Preference will be given to Mississippi based vendors.
- Preference will be given to proximity of vendor to district location or guarantees of timely on site support when needed.
- Preference will be given for vendors proposing the use of Wireless Systems in which the System manufacturer offers a superior warranty.
- Preference will be given to vendors who propose a system that matches the skills and experience of NSD I.T. staff to maintain properly.

Funding

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

Bid Disqualification

The Nettleton 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 attend and complete a mandatory site walkthrough.
2. Bidder having defaulted on a previous contract.
3. Bidder having preformed unsatisfactorily on a previous project with Nettleton Schools or another referring district.
4. Bidder's failure to include documentation for required certifications and authorizations.

The Nettleton School District will abide to the rules and regulations of the E-Rate program when evaluating bid responses.

Equipment and Installation Specifications

Cabling for Access Points/ and Network Upgrades

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, etc.)
- Current cables and patch panels may not be used for this project unless they are Cat 6 Rated cables.
- 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.
- Fiber connecting the BAND HALL to the network must be installed along with any necessary switches and wiring to complete the connection.
- Primary Computer Lab wiring and switch will be upgraded.
- HS Lab wiring and switch will be upgraded.

Wireless Infrastructure

The Nettleton School District is requesting an comprehensive 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..

WLAN Controller – Hardware or Cloud Based

- Must support all proposed access points.
- Must support adding of additional access points as needed
- Must have management system compatible with 802.11ac and should be backward compatible with b/g/n.
- Bid must include cost of configuration and/or installation of the WLC and training necessary for District technicians in the use of the equipment.

Access Points

- Must support 802.11ac. Preference will be given proposers of devices that will be upgradable to the second wave 802.11 ac.
- Preference will be given to the manufacturer offering a superior warranty as previously described
- Must use enterprise-class radios for maximum RF performance and coverage
- Must support rogue access point detection and denial of service attack protection
- Must support management frame protection
- Must support coverage for legacy 802.11 g/n devices
- Must support client load-balancing across frequencies in mixed client environments
- Must support radio resource monitoring, dynamic channel assignment, interference detection
- Must be able to provide spectrum analysis and integrated spectrum intelligence
- Access Point must be capable of supporting autonomous and central control operation
- Access Point must offer features to optimize multicast, quality of service, and video delivery

Network Switches

- Any switches/wiring needed to complete this project that are not already in place must also be included in the proposal.
- Switches must integrate seamlessly with our existing switches/infrastructure.
- The bidder must also include new switches, installation, and configuration for the following locations: ICT1 lab, ICT2 lab, STEM lab, Band Hall, Primary Lab, HS LAB.
- New switches and wiring for the Primary School Computer Lab must be provided as part of this proposal

District Responsibilities

- 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.
- District IT personnel will be on hand to provide access to facilities.

Vendor Responsibilities

- Remove all current Access Points, Arrays and network cables and move them to the District IT Department.
- 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 if needed.
- Configure system to accommodate multiple SSIDS
- Train designated district IT personnel to configure SSIDS and VLANS, update and maintain the system.
- Any responsibility specified for the vendor elsewhere in this document.

Current Network Bandwidth and WAN Configuration

- Each building in the Nettleton School District is connected to each other via a switched 1 Gig fiber optic WAN owned by the District
- The main Windows Server is located at the technology office.
- The IBOSS filter and Fortigate Firewall are located at the technology office.
- The district has a 100 Mbps Internet connection that services the entire district. This connection enters the district at the Central Office where the Router is located.
- The district internet is currently provided by AT&T.

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.

Coverage Map

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

Right to Reject

The Nettleton 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 Nettleton 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 Nettleton 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 Nettleton School District Board of Trustees, is not in a position to adequately perform the contract. The Nettleton 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 Nettleton School District. Contracts will be awarded to the vendor submitting the proposal determined to be in the best interests of the Nettleton School District.

Required Documents

Specifications for the proposed hardware

Current liability insurance and workers compensation insurance

2 References from previous customers with similar projects.

Documentation of the vendor's wireless and cabling certifications.

Technical Specifications of the proposed hardware and software.

Proposed Coverage survey or heat map for all E-Rate eligible buildings. This will not be necessary for the Non-Eligible buildings.

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 Nettleton School District and why the district should consider their proposal.

