Attachment A RFP 4088

Technical Requirements

East MS State Hospital
Closed-Circuit Television (CCTV)
Security System
For
BASAC Campus
Six (6) Buildings
and
Nursing Homes
Two (2) Buildings

I. General Overview and Background

- 1. MANDATORY The East Mississippi State Hospital (EMSH) is seeking a turnkey system with all equipment and software to be contained on campus. Systems that are not turnkey will not be considered. Vendors must attend the Onsite Vendor Conference and Walk Through on November 13, 2018, 1:00 p.m. (CST). The walking tour will start at the BASAC campus (address 1455 N Lakeland Drive, Meridian, MS). Vendors will need to drive to the Nursing Home Buildings campus (address 1818 College Drive, Meridian, MS) for the next walking tour.
- 2. Diagrams of EMSH's proposed configuration are in Attachment B.
- 3. EMSH in Meridian, Mississippi, is seeking a Vendor to implement a new CCTV Security System to replace its existing CCTV Security System in the Champion and White Buildings. The project will provide the EMSH with an IP based digital vision management system. The project will provide the EMSH with a complete turnkey system that can be viewed and controlled on-site via the EMSH's computer network.
- 4. Each of the buildings will be monitored by both internal and external cameras which feed into the NVR in each building. The system will be on its own network and connected by two (2) strands of 62.5/125 multimode fiber. The new system is expected to use the existing connectivity.
- 5. Buildings:

5A. Nursing Homes (Total two (2) buildings)

The Pines at North Lakeland Campus: RP White Building JT Champion Building

- 1. The system will include but is not limited to:
 - Digital Video Management System for each building.
 - 8 high resolution monitoring stations (includes computer and monitor).
 - Color coded CAT6 network cabling, power supplies, connectors, labor, system programming, configuration, and miscellaneous hardware
 - <u>Internal Dome Cameras</u> (Total number 66):

Two (2) megapixel (MP) IP based color dome cameras - with integral, vari-focal auto iris lenses with ceiling or wall mount.

RP White Building #33 JT Champion Building #33

Exterior Bullet Cameras 3MP (Total number 13):

RP White Building #6
JT Champion Building #7

Exterior Dome Cameras (Total number 42):

3MP with vandal resistant enclosure.

RP White Building #21 JT Champion Building #21

• Extra Inventory Cameras (Total number #8):

Internal Dome Cameras #4
Exterior Bullet Cameras #2
Exterior Dome Cameras #2

2. The system must have a minimum of 36 terabytes of RAID storage per building for a minimum of 30 days of video storage at the highest resolution of 3MP with multiple streaming capability.

5B. BASAC (Total six (6) buildings)

- 1. The system will include but is not limited to:
 - Digital Video Management System with individual surge/strike protection for each camera
 - 3 high resolution monitoring systems
 - Color coded CAT6 network cabling, power supplies, connectors, labor, system programming, configuration, and miscellaneous hardware
 - Interior Dome Cameras (Total number 30):

2MP IP based color dome cameras – with integral, vari-focal auto iris lenses with ceiling or wall mount.

Building A #1
Building B #12
Building C #12
Building D #5

Exterior Bullet Cameras 3MP (Total number 28):

Guard Station #2 Building A #3 Building B #4 Building C #4 Building D #3 Laundry #4 Green House #2 Campus Grounds #6

Extra Inventory Cameras (Total number 8):

Interior Dome Cameras #4
Exterior Bullet Cameras #4

- 2. The system must have a minimum of 50 terabytes of RAID storage for a minimum of 30 days of video at the highest resolution of 3MP with dual streaming capability.
- 3. As part of the proposal, the Vendor must include manufacturers' detailed specification sheets for the proposed components of the system (including cabling), as well as any additional documentation necessary to demonstrate that, all products meet or exceed all specifications.
- 4. The Vendor must deliver As-Built drawings upon completion of the project identifying all cable pathways, terminations, and locations.

- 5. The Vendor agrees that all products that will be used in the system will be new and meet or exceed specifications.
- 6. If the Vendor chooses to propose a configuration different from the configuration diagramed in Attachment B, the Vendor must provide a cost submission for the configuration presented in Attachment B as well. If the Vendor does not submit a cost submission for the configuration in Attachment B but does submit their own configuration as the only option, the Vendor may be disqualified from further consideration at the sole discretion of the state.

II. Vendor Requirements

- 1. The company selected to install the system (hereafter referred to as the "Vendor") must be able to demonstrate each of the following qualifications and include written documentation of each qualification as part of their proposal. Any Vendor that submits a proposal who is found not to meet each of these qualifications shall be immediately disqualified, at the sole discretion of the state, and shall be considered to have submitted a fraudulent proposal.
- 2. The Vendor must provide a description of his organization with sufficient information to substantiate proven expertise in the products and services being requested in this RFP.
- 3. The Vendor must disclose any company restructurings, mergers, and acquisitions over the past three (3) years.
- 4. The Vendor must state the number of years the Vendor has been providing the products and services being proposed. The Vendor must have a minimum of five (5) years of experience installing professional CCTV systems.
- 5. The Vendor must indicate the number of implementations his company has performed for similar organizations in their respective state/area/province in the last five (5) years as are required by this RFP.
- 6. The Vendor must provide a list of at least three (3) implementations completed in the last twelve (12) months. The list must include the name of the company served, address, telephone number, and the scope of the project installed.
- 7. The Vendor must describe the products and services being provided.
- 8. The Vendor must provide a copy of their company's most recent annual report, including consolidated balance sheets and related statements of income, stockholders' or partners' equity and changes in financial position, for each of the three (3) fiscal years preceding the end of the most recent fiscal year. The financial information listed above should be compiled, reviewed, and/or audited by a Certified Public Accountant. Annual reports can be submitted electronically (via CD or flash drive).
- 9. Vendor must provide a list of all personnel proposed for this project.

- 10. Vendor must provide a resume for each of their staff members participating on this project. Resumes must reflect qualifications, certifications and recent experience relevant to the scope of the work indicated in this RFP.
- 11. Vendor must provide a resume for each of their subcontractor members participating on this project. Resumes must reflect qualifications, certifications and recent experience relevant to the scope of the work indicated in this RFP.
- 12. Vendor must provide certifications on the Digital Video Management System to be installed. The Vendor must provide a copy of the certificates (signed and authorized by the manufacturer) with the proposal.
- 13. Vendors must be in good standings with the Better Business Bureau (BBB).
- 14. The Vendor must have a business license in their respective state of incorporation.
- 15. The company must be bonded. Upon award, awarded Vendor must provide a copy of their bond.
- 16. The Vendor must have been, for a minimum of two (2) years prior to the proposal deadline, a factory authorized dealer for the manufacturer of the equipment to be used in the project.

III. Project Management

- Vendor shall maintain a single point of contact/jobsite supervisor at all times. This
 person's contact information should be listed in the proposal response. Vendor must
 provide a resume for each of their staff members participating on this project.
 Resumes must reflect qualifications, certifications and recent experience relevant to
 the scope of the work indicated in this RFP. The point of contact must have a minimum
 of five (5) years' experience installing similar CCTV systems.
- 2. A daily work log shall be maintained at the job site and be available for review by EMSH at any time.
- 3. Vendor must submit, as a part of this proposal, a high-level Project Work Plan that outlines the overall strategy and approach to providing the requested system and services. The Plan must contain all significant work steps required for provision of the requested services. Timeframes must be specified in terms of work days or weeks after contract signing. The Plan must include the elements listed below:
 - 3a. The Plan must incorporate all tasks to be accomplished;
 - 3b. The Plan must address all project deliverables, including implementation, acceptance testing, schedule for actual testing and go-live date;
 - 3c. The Plan must include resource estimates for both the Agency and Vendor timelines; and
 - 3d. The Plan must address assumptions that the Vendor has made based on the information rendered in these specifications.

- 4. Upon contract award, the Vendor's Project Manager must work with the Agency to develop a more detailed Project Work Plan to guide the System's implementation.
- 5. The State anticipates that there may be a need for additional modifications after system implementation. Vendor must provide a fully loaded hourly rate to provide these services. The Vendor must describe his change order and staffing strategy under the following circumstances.
 - 5a. The Vendor must describe his change order and staffing strategy when a customer requires additional functionality that may be within the capability of the proposed system's existing programming, after the initial system acceptance.
 - 5b. The Vendor must describe his change order and staffing strategy when a customer requires additional functionality that may require modification of the proposed system's programmed code and/or the addition of new programming, after initial system acceptance

IV. Technical Requirements

 The EMSH conducted a site survey to identify an IP security solution that would allow the facility to be managed from a central location or via remote devices. The solution must include power over Ethernet (PoE) capabilities, featuring 2 megapixel or greater interior and exterior cameras. Based on the survey, the system configuration must include the following equipment.

2. Buildings:

2A. Nursing Homes (The Pines at North Lakeland Campus – 2 Buildings)

- 1. Cameras and Supporting Equipment
 - 1a. Sixty-Six (66) Indoor True Day/Night IP Dome Cameras 2MP
 - 1b. Thirteen (13) IP Exterior Bullet Cameras with mounts, 3MP
 - 1c. Forty-two (42) IP Exterior Dome Cameras with telephoto lens, 3MP
 - 1d. Four (4) Power over Ethernet Plus (PoE+) 48 port Gigabit (GB) Switches w/SFP uplink
 - 1e. Eight (8) SFP Uplink Devices (mini-GBIC) in IDF Closet, Gigabit utilizing multimode (mm) fiber

2. Computer Hardware

- 2a. One (1) Video Edge Network Video Recorder (NVR) Video Servers with 36 terabit storage RAID 5 for each building
- 2b. Two (2) 42" LCD/LED Flat Panel Monitors (wall mounted) AA Office

- 2c. Six (6) 21.5" LCD/LED Flat Panel Monitors Nurse
- 2d. Four (4) Articulating Wall Mounts for Flat Panel Monitors Nurse
- 2e. Eight (8) Computer Micro Workstations
 - a. Minimum 4GB DDR3 SDRAM at 1600MHz Memory
 - b. 500GB, 7200RPM 3.5' SATA 6Gb/s Hard Drive or comparable
 - c. Xeon Processor
 - d. 512 MB AMD Memory Card
- Computer Software
 - 3a. Professional Site Manager Software with licenses for the following functionality
 - 3b. Multi-site with 20 concurrent connections
 - 3c. Manage IP cameras
 - 3d. Single point event management
 - 3e. Designed to handle high throughput of HD cameras
 - 3f. Manage real-time alarms and events
 - 3g. Manage live and recorded video
 - 3h. Scalable
- 4. Data Cabling
 - 4a. All cabling should be CAT6 Plenum
 - 4b. Vendor must provide and install new data patch panels with 20% spare ports.
 - 4c. Vendor must provide all pathways for interior and exterior cameras.
 - Sleeves shall be electric metallic tubing (EMT) conduit
 - b. Vendor shall provide fiber optic cable with media converters with media converters for all cables longer than 295 feet.
 - 4d. Vendor must ensure that no cables routed through suspended ceilings are draped across ceiling tiles. Cable supports must be mounted a minimum of twelve (12) inches above the ceiling grid supporting the tiles. Cable supports must be structurally independent of the suspended

- ceiling, its framework, or supports, and not be spaced more than 1.5 m (5ft) apart. Vendors must ensure that the tie wraps used for this project are not tightened to the point of deforming or crimping the cable sheath.
- 4e. Vendor must ensure all cables installed in Telecom Rooms are secured with Velcro straps and protected from damage.
- 4f. Vendor must test all copper cables in accordance with ANSI/TIA/EIA-568-B.1 standards for wire map, attenuation, length, NEXT (pair-to-pair and power sum), FEXT and ELFEXT (pair-to-pair and power sum), return loss, propagation delay, and delay skew. Vendor must provide test results after completion.
- 4g, All copper cables will terminate on patch panels.
- 4h. Vendor must properly install firestop systems to prevent or retard the spread of fire, smoke, water, and gases through the building. All firestop systems must be installed in accordance with ANSI/TIA/EIA-569-A, ANSI/NFPA-70, and all other local, state, and national guidelines.
- 4i. Vendor must clearly mark all cables with labels to uniquely identify them within the run. Magic marker and pen are not acceptable. A complete wiring diagram with this labeling scheme must be provided to ITS upon project completion.
- 4j. All cables shall be continuous and without interruption. In-line splices, splits, taps or bridges are not acceptable in horizontal station cable runs. A minimum cable excess of twelve (12) inches shall be provided at each wall outlet. A minimum excess of ten (10) feet will be provided at the MDF/IDF termination point.
- 4k. Vendor must ensure proper separation for all cables from sources of EMI.

2B. BASAC (Total six (6) buildings)

- 1. Cameras and Supporting Equipment
 - 1a. Thirty (30) Indoor True Day/Night IP Dome Cameras 2MP
 - 1b. Twenty-Eight (28) Outdoor IP Bullet Cameras with mounts, 3MP
 - 1c. Three (3) Power over Ethernet Plus (PoE+) 24 port Gigabit Switches w/SFP uplink
 - 1d. Three (3) Power over Ethernet Plus (PoE+) 16 port Gigabit Switches w/SFP uplink
 - 1e. Twelve (12) SFP Uplink Devices (mini-GBIC) in IDF Closet, Gigabit
- 2. Computer Hardware

- 2a. One (1) Video Edge Network Video Recorder (NVR) Video Servers with 50 terabit storage RAID 5 for each building
- 2b. One (1) 42" LCD/LED Flat Panel Monitors (wall mounted) AA Office
- 2c. Two (2) 21.5" LCD/LED Flat Panel Monitors Nurse
- 2e. Three (3) Computer Workstations
 - a. Minimum 4GB DDR3 SDRAM at 1600MHz Memory
 - b. 500GB, 7200RPM 3.5' SATA 6Gb/s Hard Drive or comparable
 - c. Xeon Processor
 - d. 512 MB AMD Memory Card

3. Computer Software

- 3a. Professional Site Manager Software with licenses for the following functionality
- 3b. Multi-site with multiple concurrent connections
- 3c. Manage IP cameras
- 3d. Single point event management
- 3e. Designed to handle high throughput of HD cameras
- 3f. Manage real-time alarms and events
- 3g. Manage live and recorded video
- 3h. Scalable

4. Data Cabling

- 4a. All cabling should be CAT6 Plenum
- 4b. Vendor must provide and install new data patch panels with 20% spare ports.
- 4c. Vendor must provide all pathways for interior and exterior cameras.
 - a. Sleeves shall be electric metallic tubing (EMT) conduit
 - b. Vendor shall provide fiber optic cable with media converters with media converters for all cables longer than 295 feet.

- 4d. Vendor must ensure that no cables routed through suspended ceilings are draped across ceiling tiles. Cable supports must be mounted a minimum of twelve (12) inches above the ceiling grid supporting the tiles. Cable supports must be structurally independent of the suspended ceiling, its framework, or supports, and not be spaced more than 1.5 m (5ft) apart. Vendors must ensure that the tie wraps used for this project are not tightened to the point of deforming or crimping the cable sheath.
- 4e. Vendor must ensure all cables installed in Telecom Rooms are secured with Velcro straps and protected from damage.
- 4f. Vendor must test all copper cables in accordance with ANSI/TIA/EIA-568-B.1 standards for wire map, attenuation, length, NEXT (pair-to-pair and power sum), FEXT and ELFEXT (pair-to-pair and power sum), return loss, propagation delay, and delay skew. Vendor must provide test results after completion.
- 4g. All copper cables will terminate on patch panels.
- 4h. Vendor must properly install firestop systems to prevent or retard the spread of fire, smoke, water, and gases through the building. All firestop systems must be installed in accordance with ANSI/TIA/EIA-569-A, ANSI/NFPA-70, and all other local, state, and national guidelines.
- 4i. Vendor must clearly mark all cables with labels to uniquely identify them within the run. Magic marker and pen are not acceptable. A complete wiring diagram with this labeling scheme must be provided to ITS upon project completion.
- 4j. All cables shall be continuous and without interruption. In-line splices, splits, taps or bridges are not acceptable in horizontal station cable runs. A minimum cable excess of twelve (12) inches shall be provided at each wall outlet. A minimum excess of ten (10) feet will be provided at the MDF/IDF termination point.
- 4k. Vendor must ensure proper separation for all cables from sources of EMI.

V. Security and Accessibility

- 1. Application security level will determine the level of access each individual has and what that individual will be allowed to view and perform on each screen or field of the application.
- 2. Application must provide functionality that supports multi-level security definition/role-based security levels.
- 3. The proposed solution must prevent unauthorized access to the system and must allow the State to determine which modules, reports, and data users may access.

- 4. The system must provide application and menu level security and allow setup of inquiry, add, update, and delete access by user and/or group.
- 5. The proposed solution must allow the System Administrator to set rights for access of data by individual or group.
- 6. The system must provide functionality that supports the assignment of security levels globally, by group and individual user.
- 7. Vendor must provide the password rules and standards for the proposed solution. At a minimum, Vendor must describe how many and what type of characters are required for the creation of a valid password, password aging, and password lockout.

VI Installation

- 1. EMSH desires that the Vendor provide services consisting of video management software, hardware, camera equipment, cabling, installation services, technical support, maintenance, and training for the implementation of the CCTV Security System.
- 2. Vendor's staff must present their corporate ID or other acceptable credentials to security daily.

VII Training

- 1. Upon system acceptance, the Vendor must provide three (3) eight hour day on-site training on basic system operations and functionality as well as system problem troubleshooting techniques for up to one hundred (100) system users with times to accommodate various shifts as well as training for 1 system administrator.
- 2. The price must include training on all components of the system.
- 3. Training classes will be conducted within five (5) business days of the completion of the turnkey system.

VIII System Testing

- 1. EMSH will conduct testing of the System once the System is made available for use to the EMSH and all training is completed.
- 2. The Vendor must participate in the acceptance testing of the System by providing technical staff on-site for assistance in demonstrating the functions of the installed System. The EMSH must be in a position to demonstrate that the System is operational to ensure that proper training has been received and sufficient knowledge transfer has been accomplished.
- 3. As part of the System testing, the vendor must assist The EMSH in a performance test to confirm that the system configuration possesses adequate capacity and speed to drive the CCTV Security System and user base without degradation.

- 4. The EMSH will communicate to the Vendor regarding any deficiencies identified during either system or performance testing. The Vendor must correct deficiencies within five (5) days of written notice given by EMHS. The Vendor must bear the cost to remedy reported deficiencies. These deficiencies must be corrected and tested by the Vendor before submitting the remedy to the Agency for final system acceptance.
- 5. The Vendor must agree to and allow for a final testing/acceptance period of up to thirty (30) business days from the initiation of system testing and correction of any deficiencies reported by the State.
- 6. System testing is finished when The EMSH has successfully completed all acceptance testing as defined by the Agency; and all critical defects have been corrected by the Vendor and successfully re-tested by the Agency and operated without error or defect for the acceptance period.
- 7. EMSH reserves the right to reject the System after the third unsuccessful test of any module of the System.

IX System Transition

- The Vendor must discuss the responsibility/process for initial system setup versus ongoing administration of day to day operations. Vendor should include as part of the description, a discussion of the administrative functions that would be performed by The EMSH as opposed to the Vendor.
- 2. Vendor must provide all technical specifications and manuals (documentation) at the point of sale.
- 3. ITS acknowledges that the specifications within this RFP are not exhaustive. Rather, they reflect the known requirements that must be met by the proposed system. Vendors must specify, here, what additional components may be needed and are proposed in order to complete each configuration.
- 4. If any component(s) necessary for operation of the requested system is omitted from Vendor's proposal, Vendor must be willing to provide the component(s) at no additional cost. This includes, but is not limited to, all cabling, connectors, raceway, etc. necessary to render the configuration fully operational.

X Warranty, Maintenance, and Support

- 1. Vendor must warrant that the proposed System shall meet or exceed these minimum specifications.
 - 1a. Vendor must warrant that all deliverables shall be free from any defect which would render any such deliverable inoperable or which would prevent full performance in accordance with these specifications. This warranty includes correction of errors, design deficiencies, performance deficiencies, and incorrect or defective documentation, including those found during acceptance testing, implementation, and the warranty period.

- 1b. Vendor must propose the standard manufacturer warranty for all proposed products and services. Vendor must specify the warranty period, during which time maintenance need not be paid. Warranty must cover, at minimum, one (1) hour response to all service-related calls or e-mails during prime-shift hours (8:00 a.m. to 5:00 p.m. Central Time, Monday through Friday). Vendor must describe the proposed warranty.
- 1c. Vendor must provide a warranty for the proposed solution, at minimum 12 months. Warranty will begin upon acceptance of the installed system.
- 1d. Vendor must also specify whether an extended warranty is being proposed to satisfy these requirements and include the associated period and cost.
- 1e. Awarded Vendor must agree to provide QOS (Quality of Service) component to ensure that customer's expectations are met with an ongoing evaluation reporting mechanism ensuring satisfaction with the system after the initial installation.

XI Product Maintenance and System Support

1. Support Contract

- 1a. Vendor must maintain the products in an operable condition according to the specifications contained in the technical manuals and as outlined in these specifications and the Vendor's proposal.
- 1b. Vendor must propose an annual fixed cost contract to provide ongoing system support services to include problem remediation, maintenance and upgrades. Vendor must describe the proposed plan.
- 1c. The Vendor must have on staff (directly employ) certified computer technology personnel available to provide hardware and software support for the life of the contract.
- 1d. The Vendor must employ a full-time local (Mid-South area) service staff consisting of factory-trained and certified technicians. The service staff must be capable of timely on-site service calls, defined as having a certified technician onsite within four (4) hours during the Vendor's regular business hours. As part of the proposal, the Vendor must state the number of factory trained and certified technicians employed on their service staff. The Vendor must also provide The EMSH with a written description of a reliable mechanism in place that is used to track response time.

2. Service Calls

- 2a. The Vendor must provide The EMSH with a toll-free number to be called for service during regular business hours. All service must be performed by a qualified employee of the Vendor. No subcontracted service will be allowed.
- 2b. The Vendor must provide The EMSH with a toll-free number to be called in the event of an emergency (major system failure) after hours, weekends, and

holidays. Emergency service and support must be available 24 hours per day, 7 days a week. As part of the proposal, the Vendor must provide The EMSH with a written description of how emergency service and support is initiated and the phone number that is to be used.

2c. Vendor must provide a toll-free support number with a live person.

3. System Maintenance

- 3a. Vendor must specify frequency of system maintenance and any other scheduled down time. Vendor must designate their holiday schedule if holidays are included in their scheduled down time.
- 3b. A service and preventive maintenance agreement for one year is included with purchase. A service and preventive maintenance agreement for a period of an additional four (4) years from the date of project acceptance must be offered in the price. The Vendor agrees that factory certified technicians who are employees, not subcontractors, will service and perform preventive maintenance for the four-year maintenance period.
- 3d. The Vendor must guarantee advance replacement of failed components for a minimum of three (3) years from the date the project is awarded. As part of the proposal, the Vendor must specify how long advance replacement will be provided.
- 3e. The price of the system must include free software updates for the life of the system (as long as the hardware platform allows). All technicians must be factory certified at the time Vendor enters bid.