



INVITATION FOR BIDS

Air Handler Unit Replacement

IFB #2010-6709-1724

June 2, 2010

City of Newport News

OFFICE OF THE PURCHASING DIRECTOR

2400 Washington Avenue

Newport News, VA 23607

Phone: (757) 926-8041/ Fax: (757) 926-8038

www.nngov.com/purchasing

Sealed bids, subject to the conditions and instructions contained herein, will be received at the above office of the Purchasing Director, 4th Floor, City Hall, 2400 Washington Avenue, Newport News, Virginia, 23607, through the due date and hour shown below (local prevailing time), and then publicly opened, for furnishing the following described equipment, materials, and/or services, for delivery and/or performance F.O.B. NEWPORT NEWS, VIRGINIA.

Scope of Services: Provide all materials, equipment and labor to: remove the existing air handler unit and replace unit, remove the existing gas-fired boiler and replace unit, and remove existing hot water circulating pump and provide two new pumps as specified within this invitation for bids.

Mandatory Pre-Bid Site Visit: June 21, 2010 at 9:00 a.m. at the Pearl Bailey Library

Location: 2510 Wickham Avenue, Newport News, VA 23607

Bid Due: JuLY 6, 2010 at 3:00 p.m.

Contract Officer:

Kimberly Kapalka, C.P.M., Senior Buyer, (757) 926-3783, email:kkapalka@nngov.com

AN ORIGINAL AND THREE (5) COPIES OF YOUR SUBMITTAL ARE REQUESTED

In compliance with this Invitation for Bids , and subject to all the conditions thereof, the undersigned offers, if this quote is accepted within (60) calendar days from the date of the opening, to furnish any or all of the items and/or services upon which prices are quoted, at the price set opposite each item, to be delivered at the time and place specified herein. The undersigned certifies he has read, understands, and agrees to all terms, conditions, and requirements of this bid, and is authorized to contract on behalf of firm named below.

Company Name: _____

Address: _____

City/State/Zip: _____

Telephone: _____ FAX No.: _____

E-mail: _____ Federal Tax ID (or Social Security #): _____

Print Name: _____ Title: _____

Signature: _____ Date: _____

CONDITIONS AND INSTRUCTIONS

Rev: 05/11/10

1. All bids shall be submitted on and in accordance with this form. If more space is required to furnish a description of the commodities and/or services bid, or delivery terms, the bidder may attach a letter hereto that will be made a part of the bid. In case of conflict, the City's published specifications shall supersede any additional writings submitted with the bid. Such writings shall be clearly marked and noted on the exception page.
2. All bids shall be submitted sealed, plainly marked showing the bid number, date and time. The entire solicitation document is to be returned when submitting a bid, unless otherwise directed by the bid document. Failure to return all pages may result in a determination that the submittal is non-responsive.
3. Bids and amendments thereto, if received by the Purchasing Department after the date and time specified for bid opening, will not be considered. It will be the responsibility of the bidder to see that their bid is received by the Purchasing Department as specified. There will be no exceptions. Date of postmark will not be considered. Telephone, facsimile, electronic and verbal bids will not be accepted. Prices or changes shown on the outside of an envelope will not be considered in determination of low bid.
4. If City Hall is closed for business at the time scheduled for bid opening, for whatever reasons, sealed bids will be accepted and opened on the next business day of the City, at the originally scheduled hour.
5. Receipt of your bid by the City is not to be construed as an award or an order to ship.
6. Each bid is received with the understanding that the acceptance in writing by the City of the bidder to furnish any or all of the commodities and/or services described therein, shall constitute a contract between the bidder and the City, which shall bind the bidder on his part to furnish and deliver the articles quoted on at the prices stated and in accordance with the conditions of said accepted bid; and the City on its part to order from such bidder, except for causes beyond reasonable control; and pay for, at the agreed prices, all articles specified and delivered.
7. Bidders have the right to request withdrawal of their bids from consideration due to error by giving notice not later than two days after bids are publicly opened. Work papers showing evidence of error(s) may be required. Upon request Administrative withdrawal procedures will be provided that shall be used for that purpose.
8. If issued, addenda to this solicitation will be posted on the Purchasing Department's website (www.nngov.com/purchasing). It is the bidder's responsibility to check the website or contact the Purchasing Department prior to the submittal deadline to ensure that the bidder has a complete, up-to-date package.
9. The solicitation document maintained by the Purchasing Department, in the bid file folder, shall be considered the official copy. In the case of any inconsistency between bid documents submitted to the City, but not clearly listed on the exception page of the document as an exception by the bidder, the language of the official copy shall prevail. Furthermore, any exception or changes to the specifications made by the bidder may be cause to disqualify your bid.
10. Award will be made to the lowest responsive and responsible bidder. The quality of the articles to be supplied, their conformity with the specifications, their suitability to the requirements, the delivery terms, qualifications and references will be taken into consideration in making an award. Length of time for delivery as well as price may be considered in awarding the bid.

Unless canceled or rejected, a responsive bid from the lowest responsible bidder shall be accepted as submitted; except that if the bid from the lowest responsible bidder exceeds available funds, the purchasing director may negotiate with the apparent low bidder to obtain a contract price within available funds.

Upon making an award, or giving notice of intent to award, the City will place appropriate notice on the public bulletin board located outside of the Purchasing Department at City Hall. Notice of award may also appear on the Purchasing Website: www.nngov.com/purchasing or www.demandstar.com.

11. The City reserves the right to reject any and all bids, and to waive any informality if it is determined to be in the best interest of the City.
12. If authorized by the Bidder(s), the resultant contract(s) may be extended to any jurisdiction within the Commonwealth of Virginia to purchase at contract prices in accordance with contract terms. Any jurisdiction using such contracts shall place its own order(s) directly with the successful Contractor(s). The City of Newport News acts only as the Contracting Agent and is not responsible for placement of orders, payment or discrepancies of the participating jurisdictions. It is the Contractor's responsibility to notify the jurisdictions of the availability of contract(s). Bidder not desiring to sell to other jurisdictions under this clause shall so indicate in their response.
13. Prices shall be stated in units of quantity specified. No additional charges shall be passed to the City, including any applicable taxes, delivery or surcharges. Prices quoted shall be the final cost to the City.
14. All prices and notations should be in ink or typewritten. Mistakes may be crossed out and corrections made in ink and must be initialed and dated in ink by the person signing the bid.
15. In case of error in the extension of prices, the unit price shall govern.
16. The time of proposed delivery must be stated in definite terms. If time of delivery for different commodities varies, the bidder shall so state.
17. Samples, when requested, must be furnished free of expense, and upon request, if not destroyed, will be returned at the bidder's risk and expense.
18. Unless qualified by the provision "NO SUBSTITUTE", the use of the name of the manufacturer, brand make or catalog designation in specifying an item does not restrict bidders to the manufacturer, brand, make or catalog designation identification. This is used simply to indicate the character, quality and/or performance equivalence of the commodity desired. The commodity on which bids are submitted must be of such character, quality and/or performance equivalence that it will serve as that specified. In submitting bids on a commodity other than as specified, bidder shall furnish complete data and identification with respect to the alternate commodity they propose to furnish.

Consideration will be given to bids submitted on alternate commodities to the extent that such action is deemed to serve the best interests of the City. If the bidder does not indicate that the commodity he proposes to furnish is other than specified, it will be construed to mean that the bidder proposes to furnish the exact commodity described.
19. Any equipment delivered must be standard new and unused equipment, latest model, except as otherwise specifically stated in the bid. Where any part or the normal accessories of equipment is not described, it shall be understood that all the equipment and accessories that are usually provided in the manufacturer's stock model shall be furnished.
20. The apparent silence of these specifications and any supplemental specifications as to any detail or the omission from the specifications of a detailed description concerning any point shall be regarded as meaning that only the best commercial practices are to prevail and correct type, size and design are to be used. All interpretations of these specifications shall be made on the basis of this statement.
21. All bids must be signed by an authorized, responsible officer or employee having the capacity to enter contracts. Obligations assumed by such signature must be fulfilled.
22. By signing this bid, the bidder assigns to the City any and all rights that he may have under the antitrust laws of the United States and the Commonwealth of Virginia in any way arising from or pertaining to this bid. This provision is remedial in nature and is to be liberally construed by any court in favor of the City.

- 23. The bidder certifies by signing this Invitation for Bid that this bid is made without prior understanding, agreement, or accord with any other person submitting a bid for the same product or service and that this bid is in all respects bona fide, fair and not the result of any act of fraud or collusion with another person engaged in the same line of business or commerce. Any false statement hereunder constitutes a felony and can result in a fine and imprisonment, as well as civil damages.
- 24. The contractor guarantees to defend and save the City, its agents and employees, harmless from liability of any nature or kind, for use of any copyright, composition, secret process, patented or unpatented invention, articles or appliances furnished or used in the performance of the contract, or which the contractor is not the patentee, assignee, or licensee.
- 25. The contractor shall keep himself fully informed of all federal, state and local laws, ordinances and regulations that in any manner affect the conduct of the work. The contractor shall at all times observe and comply with all such laws, ordinances and regulations and he shall protect and indemnify the City, and its representatives against any claim or liability arising from or based on any violation of the same, whether by the contractor, his subcontractors, suppliers of materials or services, or others engaged by the contractor or the employees of any of them. **The contractor certifies that he does not and shall not during the performance of the contract for goods and services in the Commonwealth, knowingly employ an unauthorized alien as defined in the federal Immigration Reform and Control Act of 1986, as amended.**
- 26. All bidders or offerors organized or authorized to transact business in the Commonwealth pursuant to Title 13.1 or Title 50, as amended, shall include the identification number issued to it by the State Corporation Commission. Any bidder or offeror that is not required to be authorized to transact business in the Commonwealth as a foreign business entity under Title 13.1 or Title 50, as amended, or as otherwise required by law shall include in its bid or proposal a statement describing why the bidder or offeror is not required to be so authorized.

Number or Statement: _____

Any business entity that enters into a contract with a public body pursuant to this chapter shall not allow its existence to lapse or its certificate of authority or registration to transact business in the Commonwealth, if so required under Title 13.1 or Title 50, as amended, to be revoked or cancelled at any time during the term of the contract. The City may void any contract with a business entity if the business entity fails to remain in compliance with the provisions of this section.

- 27. **Contractor's License** If any of the services promulgated under this solicitation consist of construction work, it is required under Title 54.1, Chapter 11, Code of Virginia for a contractor who performs or manages construction, removal, repair, or improvements when the total value referred to in a single contract or project is:

Seventy thousand dollars (\$70,000) or more, or the total value of all such construction, removal, repair or improvements undertaken by such person within any twelve-month period is five hundred thousand dollars (\$500,000) or more shall show evidence of being licensed as a **Class A Contractor**.

Seventy-five hundred dollars (\$7,500.00) or more, but less than seventy thousand dollars (\$70,000) or the total value of all such construction, removal, repair or improvements undertaken by such person within any twelve-month period is one hundred and fifty thousand dollars (\$150,000) or more, but less than five hundred thousand dollars (\$500,000) shall show evidence of being licensed as a **Class B Contractor**.

Over one thousand dollars (\$1,000) but no more than seventy-five hundred dollars (\$7,500) or the total value of all such construction, removal, repair, or improvements undertaken by such person within any twelve-month period is no more than one hundred and fifty thousand dollars shall show evidence of being licensed as a **Class C Contractor**.

The City shall require master certification as a condition of licensure or certification of electrical, plumbing and heating, ventilation and air conditioning contractors.

A valid business license from the City may be required. The bidder shall complete whichever of the following notations as appropriate:

"Licensed Class A Virginia Contractor No. _____."

"Licensed Class B Virginia Contractor No. _____."

"Licensed Class C Virginia Contractor No. _____."

28. Payment Terms:

- a) Payment terms shall be "2%-20, Net 30 days" unless otherwise stated by the bidder on this submittal form. Alternate terms may be offered by bidder for prompt payment of bills.
- b) Payment terms shall be considered in determining the low bidder.
- c) Discount period shall be computed from the date of proper receipt of the vendor's correct invoice, or from the date of acceptable receipt of the goods/services, whichever is latest.
- d) The payment terms stated herein must appear on the vendor's invoice. Failure to comply with this requirement shall result in the invoice being returned to the vendor for correction.
- e) Late payment charges shall not exceed the allowable rate specified by the Commonwealth of Virginia Prompt Payment Act. (1% per month)

29. Availability of Funds: A contract shall be deemed in force only to the extent of appropriations available to each department for the purchase of such articles or services. The City's extended obligations on those contracts that envision extended funding through successive fiscal periods shall be contingent upon actual appropriations for the following years.

30. In event of default by the contractor, the City reserves the right to procure the commodities and/or services from other sources, and hold the contractor liable for any excess cost occasioned thereby.

31. Appeals Procedure: Upon your request, administrative appeals information will be provided that shall be used for hearing protests of a decision to award or an award, appeals from refusal to allow withdrawal of bids, appeals from disqualification, appeals for debarment or suspension, or determinations of non-responsibility and appeals from decision or disputes arising during the performance of a contract. To be timely, all appeals, except contract disputes, shall be made within ten days of either public notice of award, or the actual award, whichever is first.

32. **It is the policy of the City of Newport News to facilitate the establishment, preservation, and strengthening of small businesses and businesses owned by women and minorities and to encourage their participation in the City's procurement activities. Toward that end, the City of Newport News encourages these firms to compete and encourages non-minority firms to provide for the participation of small businesses and businesses owned by women and minorities through partnerships, joint ventures, subcontracts, and other contractual opportunities. Bidder is requested to complete the SMB, MBE and WBE Business Objectives form within this document.**

33. The City has a directory of Newport News Minority and Women-owned businesses. The directory is available at www.nngov.com/purchasing.

34. This public body does not discriminate against faith based organizations.

35. Non-Discrimination: During the performance of this contract, the contractor agrees as follows:

He will not discriminate against any employees or applicants for employment because of race, religion, color, sex, national origin, age, disability, or any other basis prohibited by state law relating to

discrimination in employment, except where one or more of these are a bona fide occupational qualification reasonably necessary to the normal operations of the contractor. The contractor agrees to post in conspicuous places available to employees and applicants for employment, notices setting forth the provisions of this non-discrimination clause.

The contractor will be and state that he is an equal opportunity employer in all solicitations or advertisements for employees.

Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.

The contractor will include the provisions of the foregoing paragraphs (a), (b) and (c) in every subcontract or purchase order of over ten thousand dollars so that the provisions will be binding upon each subcontractor or vendor.

36. During the performance of this contract, the contractor agrees to (i) provide a drug-free workplace for the contractor's employees; (ii) post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of prohibition; (iii) state in all solicitations or advertisements for employees placed by or on behalf of the contractor that the contractor maintains a drug-free workplace; and (iv) include the provisions of the foregoing clauses in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

For the purposes of this subsection, "A drug-free workplace" means a site for the performance of work done in connection with a specific contract awarded to a contractor in accordance with this subsection, the employees of whom are prohibited from engaging in the unlawful manufacture, sale, distribution, dispensation, possession or use of any controlled substance or marijuana during the performance of the contract.

37. Assignment of Contract: A contract shall not be assignable by the contractor in whole or in part without the written consent of the City.
38. Applicable Law and Courts: Any purchase order/contract resulting from this solicitation shall be governed in all respects by the laws of the Commonwealth of Virginia and any litigation with respect thereto shall be brought in the courts of the Commonwealth. The contractor shall comply with applicable federal, state and local laws and regulations.
39. Severability: If any provision of this Agreement or the application thereof to any person or circumstances shall to any extent be invalid or unenforceable, the remainder of this Agreement, or the application of such provision to persons or circumstances other than those which it is invalid or unenforceable, shall not be affected hereby, and each provision of this Agreement shall be valid and enforced to the full extent permitted by law.
40. Cancellation: The City may cancel the contract at its convenience, without penalty, at any time by giving thirty (30) days written notice or may cancel the contract immediately for violations of safety or rules of ethics. The City may cancel a contract thirty (30) days after the City has given a written request for a cure for vendor non-performance if such cure has not occurred. Cancellation shall not release the vendor from legal remedies available to the City. If the contract is an extended term contract, after completion of the first contract period, either party may cancel the contract without penalty. Written notice of such termination shall be made a minimum of sixty (60) days prior to its effective date.
41. Direct contact with City departments other than Purchasing, on the subject of this bid is expressly forbidden except with the foreknowledge and permission of the Director of Purchasing or their representative. Violation may result in a determination that your firm is ineligible for award.

42. Questions or comments related to this solicitation should be directed to the Contract Officer, whose name and contact information appears on the front of this document. All questions must be submitted in writing (facsimile or email); telephonic inquiries will not be considered.
43. The Conditions and Instructions in this solicitation are intended to apply to the resulting contract and shall supersede any conflicting terms offered. Any additional conditions a bidder intends to be considered must be submitted with the bid as an exception. Such exceptions may result in a finding that the submittal is 'non-responsive' to the bid, negating possibility of an award to that bidder. Contractual documents submitted by the successful firm after an award will not be accepted.
44. Failure of the contractor to perform the contract by reason of this non-acceptance of additional conditions shall result in termination of the contract by the City for cause, and may result in debarment of the Contractor for a period of up to three years. Such actions taken by the City shall not release the Contractor from additional remedies that may be allowed by law.

**SMALL, MINORITY, WOMEN-OWNED
BUSINESS OBJECTIVES**

It is an important business objective of the City to promote the economic enhancement of small businesses (SBE), minority businesses (MBE), and women-owned businesses (WBE). The success of the City to track the amount of business received by SBE, MBE and WBE FIRMS (whether as a prime contractor or a subcontractor) is dependent upon the business community partnering with us in this important endeavor.

If you anticipate sub-contracting to any of these businesses in the performance of this contract, you are requested to individually report the total dollars for each business classification. Failure to report the dollars in the categories below may result in the application of stronger requirements being placed on bidders to assure that SBE, MBE and WBE firms receive benefits from City contracts.

Complete the following information and return the form with your package.

- 1) If you are a SBE, MBE or WBE, please check one of the following boxes:

SBE **MBE** **WBE**

- 2) In the spaces below, report the anticipated dollars that you intend to subcontract to each business type if a contract is awarded to your firm. (If you do not intend to sub-contract any work to others, even if you are a S/M/WBE, put zeros in the spaces below).

	Company Name
Total SBE Dollars to be Sub-contracted \$ _____	_____
Total MBE Dollars to be Sub-contracted \$ _____	_____
Total WBE Dollars to be Sub-contracted \$ _____	_____

- 3) If you are not a SBE, MBE, or WBE and you do not plan to utilize such firms in this contract, please state your reasons:

ANTI-COLLUSION CERTIFICATION

The offeror certifies that this bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same product and that this bid is in all respects bona fide, fair and not the result of any act of fraud or collusion with another person or firm engaged in the same line of business or commerce. The bidder understands collusive bidding is a violation of Federal law and that any false statement hereunder constitutes a felony and can result in fines, imprisonment, as well as civil damages. The bidder also understands that failure to sign this statement will make the bid non-responsive and unqualified for award.

Signed: _____ Date: _____

Name of Company: _____

**AIR HANDLER UNIT REPLACEMENT
(PEARL BAILEY LIBRARY)**

MANDATORY PRE-BID SITE VISIT:

All bidders are required to attend the scheduled mandatory site visit and inspection at the Pearl Bailey Library, 2510 Wickham Avenue, Newport News, VA 23607. The site visit is not an opportunity to ask questions on site. All questions and/or requests for clarification shall be submitted in writing to the designated purchasing agent not less than five (5) days prior to the bid due date. Any substitutions or value engineering proposals shall be submitted as an alternate bid with attached supporting documentation. The City reserves the right to reject alternate bids.

SPECIAL NOTE:

THIS WORK PROJECT IS BEING FUNDED BY THE FEDERAL ARRA (ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANT) AND IS SUBJECT TO COMPLIANCE WITH THE ATTACHED SPECIAL TERMS AND CONDITIONS. CONTRACTORS MUST COMPLY WITH THE DAVIS-BACON ACT REQUIREMENTS. IN ADDITION, ALL PRODUCTS USED ON THIS PROJECT SHALL BE AMERICAN MADE. CONTRACTOR TAKES RESPONSIBILITY FOR OBTAINING AMERICAN MADE PRODUCTS. IF PRODUCTS ARE DEEMED NOT MADE IN AMERICA, CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ITEMS WITH AMERICAN MADE PRODUCTS AT HIS OWN EXPENSE. NO OVERTIME OR ADDITIONAL MATERIAL COSTS WILL BE ALLOWED TO MAKE CORRECTIONS. A COPY OF THE SPECIAL TERMS AND CONDITIONS IS ATTACHED FOR BIDDERS' INFORMATION.

ATTACHMENTS

BACKGROUND:

Pearl Bailey Library is located in the southeast community of Newport News. It was built in 1985, renovated in 1997 and is 12,650 SF, one story. Phase One mechanical equipment replacement was completed in late 2007, which included replacement of the condenser unit with a more energy efficient unit. The new condenser can be staged for optimal energy efficiency but the existing air handler can only utilize 50% of the available cooling capacity of the condenser and optimal performance is not being achieved.

1.1 GENERAL:

The purpose and intent of these specifications is to request formal bids from qualified bidders," to provide for air handler unit replacement at Pearl Bailey Library. The main objective of the City is to select one qualified bidder who will supply services included in the scope of work and specifications for the MECHANICAL EQUIPMENT REPLACEMENT in terms of quality, compatibility, performance, and service at the most competitive price.

- A. Provide all materials, equipment and labor to remove the existing air handler unit and replace it with one that has a variable frequency drive capable of staging and is compatible with the existing condenser unit. Remove the existing gas-fired boiler and replace with a more energy efficient model that can be used to provide for de-humidification. Contractor shall install a humidification system. Remove existing hot water circulating pump and provide two new pumps. Existing ductwork shall be re-used to the fullest extent possible. Contractor shall also be responsible for interfacing all the new equipment and existing condenser to the City's building automation system (BAS). All materials, components and parts shall be new. All work shall be in compliance with manufacturer's recommended installation procedures and applicable laws and building codes. Such compliance shall include, but is not limited to, the latest adopted versions of the following:

The International Mechanical Code, 2006
The International Plumbing code, 2006
National Electrical Code, 2005
The IECC, 2006
Virginia Uniform Statewide Building Code, 2006

If the contractor performs work contrary to the above referenced rules and regulations and without written acknowledgment or notice thereto, he shall correct this work and bear all costs arising there from.

- B. Bidder shall have a minimum of five (5) years experience in the installation of this type of equipment. Provide a list of similar completed projects performed in the last 3 years and at least 3 references.
- C. Bidder shall provide with his IFB complete product data and specifications for air handler, boiler and pumps. See section 2.1 for Equipment Criteria.
- D. Bidder shall provide with his IFB a current price list and delivery time for all replacement parts and list of local distributors and qualified technicians.
- E. Bidder shall provide the Manufacturer's Warranty for the particular product and specifically endorsed by the manufacturer to the Owner, City of Newport News. The Air Handler Unit shall have not less than a five (5) year warranty. The boiler shall have not less than a one-year warranty and heat exchanger shall have a five (5) year warranty. Date of manufacturer's warranty shall begin at the date of Final Completion.
- F. In addition, Contractor shall provide a written warranty for the completed work whereby all defective materials and workmanship shall be repaired or replaced at no additional cost to the City for **one year** from Final Completion date. All repairs or replacement of equipment/components other than those provided by the original equipment manufacturer (OEM) shall be approved by the City prior to commencement of repairs.
- G. Contractor is responsible for obtaining all required permits **prior** to start of work from Newport News Department of Codes Compliance. Permit fees are waived.

- H. All work shall be done to avoid damage to any existing equipment or devices to remain. Contractor shall be responsible for repairing any damage to the satisfaction of the Owner, City of Newport News.
- I. The existing air handler and boiler, including stack, shall be removed and disposed of in accordance with local and state regulations. Refrigerant, if any, must be recovered. Recycle scrap metal where practicable and document as such. All waste removed from site must be disposed of at the Bethel Landfill, 100 North Park Lane, Hampton, VA, in accordance with the City's disposal agreement. All disposal charges incurred will be the responsibility of the Contractor.
- J. All equipment shall be delivered to the job site completely assembled in sealed packaging. Comply with the manufacturer's instructions for rigging and handling of equipment.
- K. An Operations Superintendent for the Department of Public Works will act as the Owner's representative during the work. A City representative shall be on the job site at all times during the work.
- L. Contractor shall have **60 calendar days after Notice to Proceed** is issued to complete all work. Normal business hours are Monday through Friday, 7:00AM to 5:00PM. If additional work hours are required, a minimum 24-hour notice shall be given by the Contractor to the Owner. Additional hours will be recorded and if excessive, overtime charges for City representative will be applied to the Contractor. Contractor's additional hours shall not be charged to the Owner.
- M. Contractor to change/remove existing pneumatic system to DDC throughout building, including new AHU and boiler.

1.2 OWNER'S OCCUPANCY REQUIREMENTS:

This facility is a public library and it will be occupied during the entire work period. The Owner will have their maintenance service company provide temporary air conditioning during work. Cooperate with the Owner, service company and Library Staff during the work to minimize conflicts and facilitate normal usage of the premises. Perform all work in a manner that does not interfere with the Library's day-to-day operations. Contractor shall provide not less than 72-hours written notice to the Operations Superintendent of activities that may affect the Library's operations.

1.3 SUBMITTALS:

- A. Contractor to submit construction schedule two weeks before start of work. Schedule shall indicate start and finish dates and any milestones.
- B. Contractor to provide product data and specifications for all equipment and MSDS data shall be submitted for approval prior to ordering/installation. Unapproved items are not accepted.

- C. Contractor to provide engineering drawings, stamped by a Virginia licensed engineer, for review and approval two weeks before start of work. Drawings shall be in AutoCAD format. Drawings shall indicate the following:
- 1) Dimensioned plan and elevation view drawings, required clearances, and location of all new and existing field connections.
 - 2) Single-line schematic drawing of the power field hookup requirements, indicating all items that are furnished.
 - 3) Schematic diagram of control system, indicating points for field interface/connection for DDC.
 - 4) Diagrams that fully delineate field and factory wiring.
 - 5) New boiler piping, pumps, valves, temperature gages, pressure gages and all wiring hook up.

Unapproved work will not be accepted. Contractor to provide AutoCAD 'dwg' and PDF files of drawings for new work and for as-builts, submitted on compact disc.

- D. Provide a written and an electronic copy of the sequence of operation of the building automation system.
- F. Factory start-up service reports. State inspection shall be coordinated with start-up.
- G. Installation manuals.
- H. Contractor's written one-year warranty against defective workmanship and parts. Start date of warranty shall be date of Final Completion.
- I. Two bound copies of Operations and Maintenance manuals for equipment and DDC controls.

1.4 DEMONSTRATION AND TRAINING:

At no charge to the Owner, the Contractor shall engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate and maintain equipment.

2.1 EQUIPMENT CRITERIA:

- A. Air Handler Basis of Design: Trane Climate Changer Indoor M-Series, model number: **MCCB-17-480-BRLA-8C-1H-AF-ABB** to match existing RAUC condensing unit. Both air handler and condensing shall have factory start-up.

- B. Natural Gas-fired Boiler Basis of Design:
- 1) Approved manufactures of boiler to be Aerco, Lochinvar, and Weil-McLain.
 - 2) Condensing boiler shall have efficiency rating of 93 and above.
 - 3) Required stainless steel heat exchanger.
 - 4) Size of boiler to be 280,000 BTU/hr.
 - 5) Pump capacity for new boiler, at minimum, shall be capable of handling existing system. Contractor to verify and confirm prior to start of work.
 - 6) Loop temp requirements: 160 degrees out, 140 degrees return.
 - 7) Boiler shall have factory start up.
- C. Hot Water Circulating Pumps- Existing Design:
- 1) 8 HP
 - 2) 24 gallons per minute (GPM) rate

2.2 BUILDING AUTOMATION SYSTEM INTERFACE:

- A. Contractor is responsible for and shall provide all necessary controls, including sensors, relays and modulating signals, which can interface the condensing unit and new equipment to one of four Building Automation Systems (BAS): **Honeywell EBI, Carrier I-Vu, Delta Controls or Trane Summit**. If Trane Summit is the selected DDC system, Contractor shall provide an “Enterprise” level server to be installed in the Public Works (513 Oyster Point Road) server room. Contractor shall provide graphical interface, showing all modified points and alarm points, at the City’s central monitoring computer, located at the Public Works Operations Center, 513 Oyster Point Road.
- B. Contractor shall provide and program one laptop computer for the BAS.
- C. Contractor shall provide a written sequence of operation to the Owner for approval.
- D. Factory mounted DDC controllers shall support operation on a BACnet, Modbus or LONMARKS Network. The information communicated between the BAS and the factory mounted unit controllers shall include the reading and writing of data to allow unit monitoring, control and alarm notification as specified in the unit sequence of operation and the unit points list. All communication from the unit controller as specified in the points list shall be via standard BACnet objects. Proprietary objects are not allowed. BACnet communications shall conform to the open BACnet protocol. A BACnet Protocol Implementation Conformance Statement shall be provided along with the unit submittal. Communications and controls system shall be fully operational at equipment start-up.
- E. Owner reserves the right to reject a bid if the Contractor does not provide a qualified DDC contractor and/or the new equipment does not interface with one of the listed BAS.

2.3 GENERAL REQUIREMENTS FOR DDC SYSTEM:

- A. The direct digital control (DDC) of heating, ventilation, and air conditioning (HVAC) systems shall comply with ANSI/ASHRAE Standard 135-2004, "BACnet - A Data Communication Protocol for Building Automation and Control Networks." BACnet is also an international standard, ISO 16484-5. The intent of this specification is for the DDC system to communicate using the BACnet standard. In DDC systems, analog and binary control signals are input to microprocessor based digital controllers. The digital controllers perform control logic and provide analog and binary output signals to the controlled equipment. The control system will have a BACnet interface for connection to a hand-held device, portable computer, and/or a central workstation computer. Interface computers allow an operator to view operational status, enable and disable equipment, change set-points, set schedules, receive trends and alarms, and allow storage, modification and downloading of control programming.
- B. The new DDC system shall support American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) 135 at all device and network levels. If a legacy DDC system is already installed at the building, and costs are too high for replacement, the legacy devices may require a gateway to connect the legacy network/devices to the BACnet architecture. Contractor shall provide gateways where required.
- C. The DDC/BAS shall provide the following functions:
- 1) Allows the Owner to set up schedules of operation for the equipment so that energy savings can be realized when the building or spaces in the building are unoccupied.
 - 2) Allows the equipment optimal start with adaptive learning. Optimal start is allowing the equipment to be brought on in an ordered and sequential manner automatically on a schedule before the building is reoccupied so that space set points can be realized before occupation. Adaptive learning allows the system to compare space temperature, outside air conditions, and equipment capabilities so that the equipment can be turned on at an appropriate time to ensure space set points are achieved before occupation.
 - 3) DDC/building automation system (BAS) in conjunction with the appropriate mechanical system set-up shall offer economizing based on enthalpy calculations and/or CO2 set point control.
 - 4) DDC/building automation system (BAS) shall have such DDC control algorithms as reset schedules for heating plants, static pressure control, and other systems where energy savings can be realized through these predictive programs.
 - 5) DDC/building automation system (BAS) shall offer the ability to send alarms via email, pager, or telephone to alert building managers and/or technicians of developing problems and system failures. Alarms to be disabled when equipment is scheduled off or in off mode based on programming.

- 6) DDC/building automation systems (BAS) shall have the communications abilities to be integrated with other building automation control systems and transmission control protocol/internet protocol (TCP/IP) and shall be BACnet compatible with other open source communication protocol.

2.4 **RECOMMENDED SEQUENCE OF OPERATIONS FOR DDC SYSTEM:**

- A. The intent of this sequence of operation is to allow the building automation system (BAS) have such DDC control algorithms as reset schedules for heating, cooling plant, static pressure control, and other systems where energy savings can be realized through these predictive programs.
- B. **Start-stop:** The fan system will start under any of the following conditions:
- Occupied mode
 - DDC manual command
- 1) Occupied mode will be determined through a 7 day time schedule in the DDC. The time schedule will be adjusted by an optimum start/stop calculation. Upon startup, the supply, return & exhaust air fans will start and the heating and cooling valves and the outside air dampers will ramp up to respective control set points.
- C. **Variable Frequency Drive (VFD) Fan off mode:** The outdoor and exhaust air dampers are fully closed. The return air damper is fully open. The supply, return and exhaust air fans are off and the flow control settings are set to minimum value.
- D. **VFD Fan on mode:** Discharge air temperature control: the discharge air temperature sensor will modulate the heating coil valve, mixing dampers and the cooling coil valve in sequence to maintain the discharge air temperature at 55 deg F (adjustable set point by operator).
- E. **Economizer mode:** When outside air temperature falls below 52 deg F (adjustable set point by operator), the system will run in economizer mode, the mixing dampers will be modulated to use outside air to maintain discharge air temperature. When not in economizer mode, the mixing air dampers will attain their normal position with the return air damper fully open and maximum outside and exhaust air dampers fully closed. The mixed air low limit sensor will modulate the mixing dampers closed if the mixed air temperature drops below 48 deg F (adjustable set point by operator). If outside humidity is above 65% (adjustable set point) system closes the outside damper and goes out of economizer.
- F. **Scheduling requirements capabilities:** The DDC system shall have the capabilities of 7 day scheduling with daily occupied scheduling and night set back. An override schedule should be available for daily scheduling and holiday scheduling capability.

- G. **Discharge air temperature control:** The discharge air (DA) temperature sensor will modulate the heating coil valve and the cooling coil valve in sequence to maintain discharge air temperature at set point. The set point will follow the following reset schedule:

<u>DA Temperature Set Point</u>	<u>OA Temperature</u>
55 deg F (adj)	85 deg F (adj)
65 deg F (adj)	45 deg F (adj)

- H. **Space temperature control:** Existing room pneumatic space temperature sensors will modulate the respective room's perimeter units heating coil. Space sensors will be set at designated area though out the building for monitoring comfort of space. Sensor in return duct on low pressure AHU will be the controlling point for temperature in spaces.

- I. **Chilled water system:** The chilled water system will be enabled when outside air (OA) temperature goes above 60 deg F & disabled when the outside air temperature falls below 55 deg F. Upon the chilled water system enable signal, the chillers will be operated on a sequence of load requirement.

Chiller control & primary chilled water pump control: the primary chilled water pumps are operated on a lead lag basis. When outside air temperature goes above 50 degrees F, the chiller's motorized valve will be opened and the lead chilled water pump will be activated and will remain activated until outside air temperature goes below 50 deg F (adj.) If the lead pump fails to start, the lag chilled water pump will be started. Lead and lag pumps will be alternated on a weekly basis to equalize their run times.

J. **Hot water boiler system:**

- 1) Boiler control & primary heating water pump control:
Boiler and primary heating water pumps are operated on a primary and secondary basis based on load demand (return hot water temperature). The lead primary hot water pump and the boiler will be started when return hot water temperature (demand) falls below set-point 1 (adjustable). If the lead pump fails to start, the secondary heating water pump will be started by hot water supply temperature control. Controls will also have the capability to shift from primary pump to secondary pump.
- 2) The hot water supply water temperature sensor will modulate the hot water bypass valve to maintain the water supply temperature at set point. The hot water supply temperature set point will follow the following reset schedule: The set points will adjust auto based on outside temp sensor.

<u>O A Temperature</u>	<u>Set point</u>
70 deg F (adj)	120 deg F (adj)
50 deg F (adj)	180 deg F (adj)

- K. **Pre-heat coil: freeze protection:** When freeze stat is activated on low alarm (38 deg F), the supply fan will be stopped. When the outside air temperature falls below 38 deg F, the heating coil valve will be fully opened to coil.

When outside air temperature goes above 50 degrees F, the hot water motorized valve will be closed. The valve will remain closed until the outside air temperature goes below 50 deg F (adjustable by operator) for freeze protection.

- L. **Re-heat coil:** Hot water supply water valve modulates as needed to maintain proper temperature for DA.
- M. **Dehumidification System:** Include hot water loop for dehumidification, pump and starter piping, three-way control valve, service isolation valves, thermometer, gages and insulation.
- N. **Trends:** Trends will be setup for: Space temperatures
Discharge air temperatures
Air handler units (AHUs') power consumption.
Gas and power consumption
- O. **Night set back temperature set points:** Space temperature set point:
60 deg F (adjustable) heating
80 deg F (adjustable) cooling
- P. **Safeties: Smoke control CO2 monitors:** Smoke control upon activation of the existing smoke detector contacts, the supply air fan will be stopped and exhaust air fan will run on high speed via the hardwired interlock. Manual switches will allow exhaust air fan to be run in high speed when activated.
- Q. **Minimum alarm points:** The boiler and pumps status and boiler alarm contact will be monitored and be on alarm mode. The chiller and pumps status and chiller alarm contacts will be monitored and be on alarm mode. If chiller is off, no alarm to be sent. AHUs status and static pressure alarm; AHU discharge and return air temperature alarm (Adjustable set points); Space temperature alarm (adjustable set point).

2.5 **DDC CONTROLLER CRITERIA:**

- A. Replace all existing pneumatic controls with open Bac-net DDC system controls capable of being connected to one of the City's front end platforms. Provide the following:
- 1) Replace the existing pneumatic Terminal Box controls (flow regulator & damper actuator).
 - 2) Verify complete Terminal Box operation, to be witnessed by Owner's representative.

- 3) DDC Variable air volume (VAV) - controllers.
- 4) Install an electric controller to the existing hot water re-heat control valve.
- 5) Remove and replace all existing pneumatic room thermostats with new DDC room sensors in the same location.
- 6) Install communication wiring to connect the DDC VAV-controllers to the existing control panel in the main mechanical room.
- 7) Install 24-V power wiring as required to power the DDC VAV-controllers.
- 8) All wiring shall be plenum rated cable fastened to the building structure with tie-wraps in accordance with National Electrical Code (NEC).
- 9) Provide updated points and graphics on existing BAS platform.
- 10) Provide updated sequence of operation of DDC system.

B. Excludes: Upgrading the computer room A/C controls (it will remain a stand-alone)

3.1 WORK PERFORMED SHALL INCLUDE, BUT IS NOT LIMITED TO:

- A. The contractor shall furnish all necessary management, supervision, labor, materials, equipment, incidental tools, insurance and vehicles required to remove and install the air handler unit and boiler as described in the scope of work.
- B. Properly disconnect, de-energize, secure, lockout & tag-out all services related to the existing equipment before beginning work. These services include: city water make-up, boiler water pumps, chiller operation, Building Automation System (BAS) controls, points and sequences.
- C. Install equipment level and plumb, maintaining manufacturer's recommended clearances.
- D. Electrical components, devices and accessories shall be listed and labeled as defined in National Fire Prevention Association (NFPA) 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- E. Electrical Power:
 - 1) Field power interface shall be fused disconnect switch or circuit breaker.
 - 2) Provide branch power circuit to each motor and to controls.
 - 3) Provide over current protection for each motor.

F. Existing Boiler:

- 1) Disconnect all electrical back to nearest junction box.
- 2) Disassemble existing boiler, remove and dispose.
- 3) Remove and dispose of all existing piping and flue stack not reused.

G. Boiler Installation: as per manufacturer's requirements.

- 1) Before boiler installation, examine mechanical space for suitable locations for piping and electrical connections to verify sizes, and other conditions affecting boiler performance, maintenance, and operations. Proceed with installation only after unsatisfactory conditions have been corrected.
- 2) Install gas-fired boilers in accordance with NFPA 54.
- 3) Assemble and install boiler trim.
- 4) Install electrical devices furnished with boiler but not specified to be factory mounted.
- 5) Install control wiring to field-mounted electrical devices.
- 6) Install piping adjacent to boilers to allow for service access and maintenance.
- 7) Connect gas piping to boiler gas train inlets with unions. Piping shall be at least full size of gas train connection. Provide a reducer if required.
- 8) Connect hot water piping to supply and return boiler tapings with shutoff valves and unions or flange at each connection.
- 9) Install piping from safety relief valves to nearest floor drain.
- 10) Install piping from equipment drain connection to nearest floor drain. Piping shall be at least the same size as connection. Provide an isolation valve if required.
- 11) Install venting kits and combustion air intakes.
- 12) Ground equipment.

H. Dehumidification/Humidification: Shall be controlled and be adjustable by DDC BAS, maintaining 50% humidity +/- 10% throughout library.

I. Field Quality Control:

- 1) Perform tests and inspections and prepare test reports.
- 2) Leak Test: Hydrostatic test. Repair leaks and retest until no leaks exist.
- 3) Start-up and Operational Test:
- 4) Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- 5) Check and adjust initial operating set points and high and low limit safety set points of fuel supply, water level, and water temperature.
- 6) Set field adjustable switches and circuit breaker trip ranges as indicated.
- 7) Remove and replace malfunctioning unit.

J. Start-up & Commissioning:

The contractor shall coordinate with the Operations Superintendent to conduct factory start-up of the new units and the air-cooled chiller. Contractor shall engage a factory-authorized service representative to perform start-up service. The Operations Superintendent, or designated person, shall witness and verify the proper operation of new equipment. Contractor shall provide a startup sheet, model number and serial number of air handler unit, boiler and chiller.

K. Adjusting:

Adjust initial temperature and humidity set points. Temperature and humidity set-points to be determined.

AWARD

Award shall be made in accordance with Chapter 2, Article XX, Section 2-563, Newport News City Code. It will be made to the lowest responsive, responsible bidder. In determining the lowest responsive, responsible bidder, in addition to price, the City shall consider quality, delivery time, payment terms, options available and suitability of the services offered for the intended use, as well as the capacity, character, integrity, and reputation of the bidder, and any past experience with the service offered of the bidder.

QUESTIONS

Questions regarding this IFB, should be directed to the Department of Purchasing, Kimberly Kapalka by email: kkapalka@nngov.com (preferred) or facsimile at (757) 926-8038, *not less than five (5) days* prior to the bid due date. All questions must be submitted *in writing*; telephonic inquiries will not be considered.

INSURANCE ENDORSEMENTS

Insurance The contractor shall maintain adequate liability insurance, which shall protect and save harmless the City of Newport News, Virginia, and its officials from all suits and actions of every kind and description arising from injury or damage to persons and property in the prosecution of said work or in failure to properly safeguard same, and from all claims arising under the workmen's compensation laws. The contractor shall furnish proof of said insurance prior to commencement of services. Separate forms which name the City as additional insured and as alternate employer must be included with the Certificate of Insurance.

The Commonwealth of Virginia requires construction contractors and subcontractors to obtain and maintain worker's compensation insurance while performing work on behalf for the City. Evidence of coverage needs to be provided prior to commencement of work.

Sample forms CG 20-10 (naming the City as additional insured for liability claims) and WC 00-03-01 (naming the City as an alternate employer for Worker's Compensation claims, pursuant to Section 65.2-302(A) of the Code of Virginia, 1950, as amended); and the Commonwealth's form for Worker's Compensation Certificate of Coverage are attached.

Contractor shall have ten (10) days from notice of intent to award to provide insurance documentation. Failure to provide the Certificate and forms within this period may be cause for the City to award a contract to the next responsive bidder, and hold the original contractor liable for excess costs.

<u>TYPE INSURANCE COVERAGE</u>	<u>LIMITS</u>
1. Worker's Compensation Employer's Liability	Statutory \$100,000.00
2. Comprehensive General Liability with XCU & Contractual included	\$1,000,000.00 each \$1,000,000.00 each Occurrence
3. Property Damage Liability Occurrence	\$100,000.00 each

POLICY NUMBER: _____ COMMERCIAL GENERAL LIABILITY
CG 20 10 10 93

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS (FORM B)

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name of Person or Organizations:

**City of Newport News
Purchasing Department
2400 Washington Ave
Newport News, VA 23607**

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement).

WHO IS AN INSURED (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of your ongoing operations performed for this insured.

CG 20 10 10 93

Endorsement

Alternate Employer

WC 00 03 01

Policy Amendment

If the following information is not complete, refer to the appropriate information page attached to the policy.

INSURED	POLICY NO.	SEQ. NO.
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PRODUCER	EFFECTIVE DATE
-----------------	-----------------------

SCHEDULE

Alternate Employer
Special

Address

State of

or Temporary Employment

**City of Newport News
c/o Purchasing Department
2400 Washington Avenue
Newport News, Virginia**

Virginia

This endorsement applies only with respect to bodily injury to your employees while in the course of special or temporary employment by the alternate employer in the state named in the Schedule. Part One (Workers Compensation Insurance) and Part Two (Employers Liability Insurance) will apply as though the alternate employer is insured.

Under Part One (Workers Compensation Insurance), we will reimburse the alternate employer for the benefits required by the workers compensation law if we are not permitted to pay the benefits directly to the person entitled to them.

The insurance afforded by this endorsement is not intended to satisfy the alternate employers duty to secure its obligations under the workers compensation law. We will not file evidence of this insurance on behalf of the alternate employer with any government agency.

We will not ask any other insurer of the alternate employer to share with us a loss covered by this endorsement.

Premiums will be charged for your employees while in the course of special or temporary employment by the alternate employer.

Part Four (Your Duties If Injury Occurs) applies to you and the alternate employer. The alternate employer will recognize our right to defend under Parts One and Two and our right to inspect under Part Six.

WORKER'S COMPENSATION

CERTIFICATE OF COVERAGE

Section 11-46.3, Code of Virginia, requires construction contractors and subcontractors to obtain and maintain workers' compensation insurance while performing work on behalf of the Commonwealth of Virginia departments, institutions or agencies. This same requirement applies for work being performed on behalf of local governments.

Evidence of coverage needs to be provided prior to commencement of work.

This form is to be returned to the organization contracting the work.

The undersigned organization stipulates that it either:

A. Has worker's compensation insurance _____ Yes

Insurance Company: _____

Policy Expiration Date: _____

B. Is self-insured for workers' compensation _____ Yes

Title of Construction Contract: **Air Handler Unit Replacement (Pearl Bailey Library)**

Contract Number: _____

Signed By: _____

Title: _____

Firm Name: _____

Address: _____

REFERENCES

Reference 1

Name of Business, City, County or Agency	Street Address	City & State	Contract Dates
Contact	Title	Telephone	Email Address
Description of Work Performed:		Contract Amount: \$	

Reference 2

Name of Business, City, County or Agency	Street Address	City & State	Contract Dates
Contact	Title	Telephone	Email Address
Description of Work Performed:		Contract Amount: \$	

Reference 3

Name of Business, City, County or Agency	Street Address	City & State	Contract Dates
Contact	Title	Telephone	Email Address
Description of Work Performed:		Contract Amount: \$	

BID PRICE PAGE

Company Name: _____

QUANTITY	DESCRIPTION	TOTAL BID PRICE
<p>1 Lot</p>	<p>Air Handler Unit Replacement:</p> <p>Provide all materials, equipment and labor to remove the existing air handler unit, and replace unit with one that has a variable frequency drive capable of staging, and is compatible with the existing condenser unit;</p> <p>Remove existing gas-fired boiler and replace with a more energy efficient model that can be used to provide for dehumidification, and install a humidification system;</p> <p>Remove existing hot water circulating pump and provide two new pumps. Existing ductwork shall be reused to the fullest extent possible;</p> <p>All materials, components and parts shall be new (unused), and all work shall be as outlined in this IFB document specifications and requirements.</p>	<p>\$ _____</p>

Indicate completion time after given notice to proceed: _____

Indicate payment terms if other than "2% 20, Net 30 days": _____

EXCEPTIONS:

Note: Bidder must sign the appropriate statement below, as applicable:

- () Bidder understands and agrees to all terms, conditions, requirements, and specifications stated herein.

Firm:

Signature: _____

- () Bidder takes exception to terms, conditions, requirements, or specifications stated herein (Bidder must itemize all exceptions below, and return with this IFB submittal):

Firm:

Signature: _____

Vendors should note that any exceptions taken from the stated terms and or specifications may be cause for their submittal to be deemed “non-responsive”, risking the rejection of their submittal.

BID RESULTS

Bid results may also be obtained from our website at: www.nngov.com/purchasing or www.demandstar.com
