



Palm Beach Community College
 Purchasing Department
 4200 Congress Avenue
 Lake Worth, Florida 33461-4796
 (561) 868-3465

**INVITATION TO BID
 BIDDER ACKNOWLEDGEMENT**

BID NO: 09/10-1

DATE: 09/11/09

BID TITLE: Disk Storage

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Bid Must be received prior to 2:00 pm, Tuesday Sep. 29th 2009 in PS-100 Purchasing Dept. Lake Worth Campus at which time bids will be opened. Bids received after this time frame will be returned to the bidder unopened.

Vendor Name:	Terms:
Vendor Mailing Address:	F.I.E.D No: (SS#)
	Delivery _____ calendar days after receipt of purchase order.
Area Code/Telephone No:	
Anti-Collusion: The signed bidder certifies that he/she has not divulged, discussed or compared his/her bid with other bidders and has not colluded with any other bidder or parties to a bid whatever. (NOTE: No premiums, rebates or gratuities permitted either with, prior to, or after any delivery of material. Any such violation will result in the cancellation and/or return of materials (as applicable) and the removal from bid list.	<hr/> <i>Authorized Signature (manual)</i> <hr/> <i>Authorized Signature (Typed or Printed) Title</i>

INVITATION TO BID

This invitation to Bid, General Conditions, instructions to Bidders, Special Conditions, Addenda and/or any other pertinent document form a part of this proposal and by reference are made a part thereof.

PURPOSE: It is the purpose and intent of this invitation to secure bids for item(s) and/or services as listed herein for the District Board of Trustees of Palm Beach Community College, hereinafter called the BOARD.

BOARD'S ACCEPTANCE: Unless otherwise specified herein, the bidder will allow a minimum of thirty (30) days from the last date for receiving bids for acceptance of its bid by the Board.

AWARDS: In the best interest of the College, the Board reserves the right to reject any and all bids and to waive any informality in bids received; to accept any item or group of items unless qualified by bidder; to acquire additional quantities at prices quoted on the invitation unless additional quantities are not acceptable. All awards made as a result of this bid shall conform to applicable Florida Statutes, State Board of Education Regulations and District Board of Trustees rules.

GENERAL CONDITIONS, INSTRUCTIONS AND INFORMATION FOR BIDDERS

BIDDER: To insure acceptance of the bid, follow these instructions:

SEALED BIDS: All bids and this form shall be submitted in a sealed envelope addressed to the Palm Beach Community College, Purchasing Department, 4200 Congress Avenue, Lake Worth, Florida 33461-4796. (DO NOT INCLUDE MORE THAN ONE BID PER ENVELOPE). The face of the envelope shall contain, in addition to the above address, THE DATE AND TIME OF THE BID OPENING, BID TITLE AND BID NUMBER. Bids will be opened publicly and all bidders and general public are invited and encouraged to attend. It is the sole responsibility of the bidder to deliver his/her proposal to the above address on or before the closing hour and date shown above. RETURN ONE COPY OF ALL BID SHEETS AND THIS FORM. Any failure on the part of the bidder to comply with the specifications, terms and conditions of this invitation to bid shall be reason for termination on the award.

EXECUTION OF BID: Bid must contain manual signature of an authorized representative in the space provided above. Bid must be typed or printed in ink. Use of erasable ink not permitted. No erasures are permitted. If a correction is necessary, draw a single line through the entered figure and enter the corrected figure above it. Corrections must be initialed by the person signing the bid. Any illegible entries, pencil bids and/or correction not initialed may not be tabulated. Unless otherwise specified, bidders must use the proposal form furnished by the College. Failure to do so may cause the bid to be rejected. Removal of any part of the bid proposal may invalidate the bid.

- NO BID:** If not submitting a bid, please respond by returning this form, marking it "NO BID" and explain below the reason. Failure to respond three (3) times in succession without justification shall be cause for removal of the suppliers name from the bid mailing list. NOTE: To qualify as a respondent, bidder must submit a "NO BID", and it must be received no later than the stated bid opening date and hour.
- BID OPENING:** Shall be public on the date and at the time specified on the bid form. It is the bidder's responsibility to assure that his/her bid is delivered at the proper time and place of the bid opening. Bids which for any reason are not so delivered will not be considered. NOTE: Bid tabulations will be furnished upon written request with an enclosed self-addressed, stamped envelope. Bid files may be examined during normal working hours by appointment.
- PRICES QUOTED:** Deduct trade discounts and quote firm net prices. Give both unit price and extended total. In case of a mistake in extensions, the unit price will take precedence. All prices shall be F.O.B. destination.
- PRICES, TERMS AND PAYMENT:** Firm prices shall be bid and include all packing, handling, shipping charges and delivery to the destination shown herein.
 - TAXES:** The state of Florida does not pay Federal Excise and Sales taxes on direct purchases of tangible personal property. See exemption number on face of purchase order. This exemption does not apply to purchases of tangible personal property made by contactors who use the tangible personal property in the performance of contractors for the improvement of state-owned property as defined in Chapter 192, F.S.
 - DISCOUNTS:** Bidders are encouraged to reflect cash discounts in the unit prices quoted; however, bidders may offer a cash discount for prompt payment. Discounts shall be considered in determining the lowest net cost for bid evaluation purpose.
 - MISTAKES:** Bidders are expected to examine the specifications, delivery schedule, bid prices, extensions, and all instructions pertaining to supplies and services. Failure to do so will be at bidder's risk.
 - CONDITION AND PACKING:** It is understood and agreed that any item offered and shipped as a result of this bid shall be a new, current standard production model available at the time of this bid. All containers shall be suitable for storage or shipment, and all prices shall include standard commercial packing. Palm Beach Community College will not assume the cost for special packing unless it is requested by the College or the need for such is indicated on the bid and approved by the College.
 - SAFETY STANDARDS:** The bidder warrants that all manufactured items and fabricated assemblies shall conform in all respects to the standards set forth in the Occupational Safety and Health Act of 1970, as amended, and the failure to comply with this condition will be considered as a breach of contract. All manufactured items and fabricated assemblies shall carry Underwriter's Laboratories approved or re-examination listing where such had been established by U.L. for the item(s) offered and furnished.
 - PAYMENT:** Payment will be made by the buyer after the items awarded to a vendor have been received, inspected, and found to comply with award specifications, free of damage or defect and properly invoiced. All invoices shall bear the purchase order number. An original and two (2) copies of the invoice shall be submitted. Failure to follow these instructions may result in delay of processing invoices for payment. The purchase order number must appear on bills of lading, packages, cases, delivery lists and correspondence.
- DELIVERY:** Unless actual date of delivery is specified (or if specified delivery cannot be met), show number of days required to make delivery after receipt of purchase order in space provided. Delivery time may become a basis for making an award.
- SUBSTITUTIONS:** Palm Beach Community College WILL NOT accept substitute shipments of any kind. Bidder(s) is/are expected to furnish the brand quoted in their bid once awarded by Palm Beach Community College. Any substitute shipments will be returned at the bidder's expense.
- MANUFACTURER'S CERTIFICATION:** Palm Beach Community College reserves the right to request from bidders separate manufacturer certification of all statements made in the proposal. Bidder is to complete all of the blank spaces on the proposal pages and furnish full descriptive literature and color and fabric swatches (where applicable) for each item bid.

8. INTERPRETATIONS: Any questions concerning conditions and specifications shall be directed to this office. Inquires must reference the date of bid opening, bid name and bid number. Failure to comply with this condition will result in bidder waiving his/her right to dispute the bid conditions and specifications.
9. NON-CONFORMANCE TO CONTRACT CONDITIONS: Items may be tested for compliance with specifications under the direction of the Florida Department of Agriculture and Consumer Services, or an independent testing laboratory. Items delivered, not conforming to specifications, may be rejected and returned at vendor's expense. These items and items not delivered as per delivery date in bid and/or purchase order may be purchased on the open market. Any increase in cost may be charged against the bidder. Any violation of these stipulations may result in:
 - a. Vendor's name being removed from the Purchasing Department vendor mailing list.
 - b. All departments being advised not to do business with vendor.
 - c. Any attorney's fees and court costs involved in the enforcement of this provision shall be paid by bidder.
10. CONFLICT OF INTEREST: The award hereunder is subject to the provision of Chapter 112, Florida Statutes. All bidders must disclose with their bid the name of any officer, director, or agent who is also an employee of the State of Florida, or any of its agencies. Further, all bidders must disclose the name of any State employee who owns, directly or indirectly, an interest of five percent (5%) or more in the bidder's firm or any of its branches.
11. AWARDS: As the best interest of Palm Beach Community College may require, the right is reserved to make award(s) by individual item, group of items, all or none or a combination thereof; to reject any and all bids to waive any minor irregularity or technicality in bids received. When it is determined there is competition to the lowest responsive bidder, then other bids may not be evaluated. Bidders are cautioned to make no assumptions unless their bid has been evaluated as being responsive.
12. QUANTITIES: Whenever a bid is sought, seeking a source of supply for a special time for materials or services, the quantities or usage shown is estimated only. No guarantee or warranty is given or implied by the College as to the total amount that may or may not be purchased from any resulting contracts. These quantities are for bidder's information only and will be used for tabulation and presentation of bid.
13. SPECIAL CONDITIONS: Any and all Special Conditions that may vary from these General Conditions shall have precedence.
14. SERVICE AND WARRANTY: Unless otherwise specified the bidder shall define any warranty service and replacements that will be provided during and subsequent to this contract, Bidders must explain on an attached sheet to what extent warranty and service facilities are provided.
15. SAMPLES: Samples of items, when required must be furnished free of expense, on or before bid opening, time and date and if not destroyed may, upon request, be returned at the bidder's expense. Each individual sample must be labeled with bidder's name, manufacturer's brand name and number, bid number and item number. Failure of bidder to either deliver required samples or to clearly identify samples as indicated may be reason for rejection of the bid. Unless otherwise indicated, samples should be delivered to the office of the Purchasing Department, Palm Beach Community College, 4200 Congress Avenue, Lake Worth Florida 33461-4796. Request for return of samples shall be accompanied by instructions which include shipping authorization and name of carrier and must be received with your bid. If instructions are not received within this time, the commodities shall be disposed of by Palm Beach Community College.
16. INSPECTION, ACCEPTANCE AND TITLE: Inspection and acceptance will be at destination unless otherwise provided. Title to/or risk of loss or damage to all items shall be the responsibility of the successful bidder until acceptance by the buyer unless loss or damage result from negligence by the buyer. If the materials or services supplied to the college are found to be defective or not conform to specifications, the College reserves the right to cancel the order upon written notice to the seller and return product at bidder's expense.
17. DISPUTES: In case of any doubt or difference of opinion as to the items to be furnished hereunder, the decision of the College shall be final and binding on both parties.
18. PATENTS AND ROYALTIES: The bidder, without exception, shall indemnify and save harmless Palm Beach Community College and its employees from liability of any nature or kind, including cost and expenses for or on account of any copyrighted, patented or unpatented invention, process, or article manufactured or used in the performance of the contract, including its use by the College. If the bidder uses any design, device or material covered by letters, patent or copyright, it is mutually agreed and understood without exception that the bid prices shall include all royalties and/or cost arising from the use of such design, device, or materials.
19. LIABILITY: The seller agrees to indemnify and save Palm Beach Community College, its officers, agents, and employees harmless from any and all judgments, orders, awards, costs and expenses including attorney's fees, and all claims on account of damages to property, including loss of se thereof, or bodily injury (including death) which may be hereafter sustained by the seller, its employees, its subcontractors, or Palm Beach Community College employees, or third persons, arising out o or in connection with this contract unless the loss was determined by a court of competent jurisdiction to have resulted from the negligence of the College or its agents or employees.
20. ANTI-DISCRIMINATION CLAUSE: The bidder shall comply with the provisions of Executive Order 11246, September 24, 1965, and the rules, regulations and relevant Orders of the Secretary of Labor.
21. EQUAL OPPORTUNITY CLAUSE: Section 228.2001, Florida Statutes, prohibits discrimination on basis of race, sex, national origin, marital status, or handicap against a student or employee in the State System of Public Education, as defined in Section 228.041, Florida Statutes.
22. PUBLIC ENTITY CRIMES: In compliance with Florida Public Entity Crime Statue (Section 287.132, 133) attached State Form PUR 7068 should be fully executed, notarized and submitted with bid.
23. POSTING OF BID TABULATIONS: Bid tabulations with recommended awards will be posted for review by interested parties in the Purchasing Department, Palm Beach Community College, 4200 Congress Avenue, Lake Worth, Florida 33461-4796 and will remain posed for a period of 72 hours. Failure to file a protest within the time prescribed in Section 120.53(5), Florida Statutes, shall constitute a waiver of proceedings under Chapter 120, Florida Statue.
24. JOINT-BIDDING, COOPERATIVE PURCHASING AGREEMENT: All bidders submitting a response to this invitation to bid agree that such response also constitutes a bid to ALL POLITICAL SUBDIVISIONS OF PALM BEACH COUNTY, FLORIDA, under the same conditions, for the same prices and for the same effective period as this bid should the bidder feel it is in their best interest to do so. This agreement is no way restricts or interferes with the right of ANY POLITICAL SUBDIVISION OF PALM BEACH COUNTY, FLORIDA, to rebid any or all items.

Dennis P. Gallon serves as PBCC president, and the College is governed by the Palm Beach Community College District Board of Trustees of Palm Beach County. An Equal Opportunity Institution.

SWORN STATEMENT PURSUANT TO SECTION 287.133(3) (a),
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted to _____
[print name of the public entity]
by _____
[print individual's name and title]
for _____
[print name of entity submitting sworn statement]

whose business address is

and (if applicable) its Federal Employer Identification Number (FEIN) is _____

(If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement: _____.)

2. I understand that a "public entity crime" as defined in Paragraph 287.133(1) (g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or of the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
3. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1) (b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.
4. I understand that an "affiliate" as defined in Paragraph 287.133(1) (a), Florida Statutes, means:
1. A predecessor or successor of a person convicted of a public entity crime; or
 2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.
5. I understand that a "person" as defined in Paragraph 287.133(1) (e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.
6. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. [Indicate which statement applies]

_____ Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

_____ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

_____ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (attach a copy of the final order)

I UNDERSTAND THAT THE SUBMISSION OF THE FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

[signature]

Sworn to and subscribed before me this _____ day of _____, 20_____.

Personally known _____

Or Produced identification _____ Notary Public – State of _____

(Type of Identification)

My commission expires _____

(Printed, typed or stamped
commission name of notary public)

Invitation to Bid: 09/10-1

Due Date: 09/29/09

Disk Storage
Palm Beach Community College

PURPOSE:

The intent and purpose of this bid is to secure a firm bid price for the Disk Storage project as per specifications.

See the following pages.

Any questions regarding the Request for Proposal shall be directed to the Purchasing Office, attention Joe Pugliano, Purchasing Manager.
puglianj@pbcc.edu.

It is the bidder's responsibility to become fully informed as to the nature and extent of the work required and its relation to any other work in the area, including possible interference from academic or other College activities. Arrangements for bidder's inspection of campus facilities and/or activity schedules may be secured by contacting Mike Merker at 561-868-3252.

It shall be the responsibility of the successful Vendor to maintain Worker's Compensation Insurance, Property Liability Insurance, Property Damage Insurance, and Vehicle Liability Insurance during the time any of his personnel are working on Palm Beach Community College property. General liability coverage shall not be less than \$1,000,000.00 for injury or death to any one person, and not less than \$1,000,000.00 on account of one accident. Property damage insurance shall be in an amount not less than \$1,000,000.00 for each accident. Loss by fire or any other cause shall be the responsibility of the Vendor until such time as the items and/or work has been accepted by the College. The Vendor shall furnish the College with Certificate of Insurance naming the College as an additional insured after award has been made but prior to start of any work on College property.

Awarding of Contracts:

The Board will make awards in the best interest of the College. The Board reserves the right to reject any or all bids and to waive any technicalities in bids received. A College purchase order when furnished the successful bidder shall result in a binding contract without action by either party.

Award recommendations will also be electronically posted (and will remain posted for a period of 72 hours) for viewing on the Palm Beach Community College Purchasing Department Website under **Bid Openings** link at the following address:

<http://www.pbcc.edu/purchasing/index.jsp>

Partial payments in the full amount of the value of items received and accepted may be requested by the submission of a properly executed invoice, with supporting documents if required.

PARTS AND SERVICES:

Bid will be considered only on items for which parts and service are sufficiently available locally so that excessive down time will not occur. Bidders should be ready to furnish information on availability of parts and service upon request by the College.

The bidder and the manufacturer of the system/or product shall guarantee that all parts, and/or components shall be available for five (5) years from date of acceptance.

Repairs to equipment must be on site. If due to unusual circumstances the equipment must be removed from the site for repair, the bidder must provide & install equal equipment to ensure no down time to the College. This equipment is to be at no additional charge to the College.

The Contractor shall have full access to the equipment for maintenance purposes. Contractor shall maintain the equipment in satisfactory working order and shall make all necessary repairs and adjustments. Only new parts or parts of equal quality shall be used in effecting repairs. If emergency service is not commenced within the time stated and the College determines the lack of service is or will cause harm to the operations of the College, the College shall have the right to call in a qualified service organization to affect the necessary repairs. The service organization must be certified by the vendor to the extent that such repairs will not invalidate any warranty on the equipment being serviced or any existing service contract. The Contractor shall be responsible for the payment for any such emergency service.

The Contractor agrees all maintenance personnel shall be suitably trained in the operation of the equipment proposed.

The Contractor agrees to stock spare equipment and components in a local accessible site to ensure prompt repair of the equipment.

BONDING REQUIREMENTS:

Bid Bond: Certified or Cashier's Check/Bid Bond in the amount of 5% of the Base Bid must be attached hereto. The Attorney-in-Fact that signs the bond must file with the bond a certificate and effective dated copy of Power of Attorney. The Insurance Company that issues the Bond must be licensed to do business in the State of Florida. If the Insurance Company is an out of state firm, a Power of Attorney from a Resident Agent must be properly executed and included with the bid. Check of successful bidder will be deposited, and held as guarantee of performance. The deposits of unsuccessful bidders will be returned after award.

Performance and Payment Bond: Contractor awarded any resulting contract will furnish a One Hundred Percent (100%) "Performance and Payment Bond" in the full amount of said award and must comply with Florida Statute 255.05.

The Insurance Company that provides the bond must be licensed to do business in the State of Florida. If an out of state Insurance Company provides the bond, a Power of Attorney issued by a Florida Resident Agent is required or your bid may be rejected.

EQUAL OPPORTUNITY EMPLOYER:

Palm Beach Community College is dedicated to the concept of equal opportunity. The College will not discriminate on the basis of race, color, religion, sex, age, national origin, handicap or veteran's status in its employment practices or in the admission and treatment of students.

Bidder's Equal Opportunity Statement: Bidder by virtue of bidding hereby certifies to the District Board of Trustees of Palm Beach Community College that they are an Equal Opportunity Employer and are in compliance with the Terms and Conditions of Palm Beach Community College's corresponding Invitation to Bid.

No contract awarded under these terms, conditions and specifications shall be sold, transferred or assigned without the written approval of Palm Beach Community College.

This disk storage project is an addition to the existing SAN Storage environment. The DS5100 will provide for forty-eight (48) 450GB and sixty-four (64) 1TB SATA disk drives. The drives will be attached to a new DS5100 storage controller. The DS5100 will connect to the existing Brocade SAN fabrics. The storage will be attached to an existing San Volume Controller (SVC). The storage will be migrated from an existing DS6000 to the new DS5100 utilizing the SVC.

Storage services to be performed include the SVC OS upgrade, storage hardware installation, the storage array backend loop design, SAN connections, firmware updates on the new storage array's, configuration of the new DS5100, presentation of the LUNs to the SVC, migration of storage to the DS5100, skills transfer, and documentation of the new environment.

Assumes customer supplied APC racks/pdu's.

Vendor will provide information technology services to accomplish the following:

Scope of Services

Conduct a Project Kick-Off Meeting

- To define roles and responsibilities

- Provide Project Management & Planning Skills as Needed to Complete the Project

- Discuss Communication Plan, identify for client and e-Tech

- Identify issue escalation process for Client and e-Tech

- Identify status meeting/report schedule

- Discuss project time line and critical mile stones

- Identify project Critical Success Factors

Planning – Storage Area Network (SAN)

- Define Drive loops

- Define Raidsets and Virtual Raidsets

- Define LUN's

- Define LUN WWID Identifiers

- Define LUN Server Access

- Define DS5100 TCP/IP configuration

- Define SAN Switch Configuration Updates

- Review Brocade SAN Switch Firmware Revision

- Review existing DS5100 and EXP5000 Firmware revision

- Define SVC OS / firmware level

 - Steps to upgrade to current version

Hardware Installation, On-Site Rack and Stack

- Uncrate/Unpack IBM Cabinetry, Storage Area Network Devices, and miscellaneous hardware

- Inventory hardware equipment

- Rack-mount all servers, shelving, displays, and miscellaneous hardware

- Install individual components into Storage shelves

- Attach/run all networking and Fibre cables as required

- Power-up all hardware, run local diagnostics on equipment

DS5100 - Storage Area Network (SAN) Installation

- Configure IBM SAN Controllers (DS5100)
- Update DS5100 and EXP5000 Firmware as required
- Update SAN Switch
- Configure Raidsets
- Configure LUN's
- Configure LUN WWID identifiers
- Configure LUN Remote Access
- Configure LUN's on applicable systems
- Update Brocade SAN Switches as required
- Update existing DS5100 and EXP5000 firmware as required
- IBM Engineer to validate DS5100 and SAN Configuration

Skills Transfer

- Update on Storage Manager
- Update on SAN Switches

Documentation

- SAN Switch Configuration
- SAN Fabric Configuration with Visio diagram
- Storage Configuration
- SVC Version and patch level

Deliverables

- SAN Fabric
 - New Switches installed and configured
 - SAN Switches merged into the fabric
- DS5100 Storage installed with two backend loops (Fibre and SATA)
- SVC OS Upgraded to current supportable level
- Storage presented to SVC
- Documentation and Visio diagrams

Required Equipment:

<u>Product</u>	<u>Description</u>	<u>Quantity</u>
1818-51A	DS5100 Midrange Disk (Dual Controllers)	01
2031	16 GB Cache Memory	01
2052	2-Quad 8 Gbps Host Port Cards	01
	SW 8 Gbps SFP transceiver pair	04
7720	DS5000 Windows Host Kit	01
8900	DS5000 8-Storage Partitions	01
9202	Field Integrate	01
9800	Power Cord	01
	Annual Maintenance (24 X 7 X 4) Provided by IBM	3-Years
1818-D1A	EXP5000 Expansion Unit	03
	SW 8 Gbps SFP transceiver pair	03
5542	16-Pak 450 GB/10K DDM	03
5605	5m Fiber Optic Cable Multimode (LC-LC)	06
9019	Attach to DS5000	03
9202	Field Integrate	03
9800	Power Cord	03
	Annual Maintenance (24 X 7 X 4) Provided by IBM	3-Years
	Configure one 1818-D1A on a single channel and single loop	
	Configure two 1818-D1A on a single channel and single loop for both expansion units	
1818-D1A	EXP5000 Expansion Unit	04
	SW 8 Gbps SFP transceiver pair	04
4711	1000 GB/7.2K SATA DDM	64
5605	5m Fiber Optic Cable Multimode (LC-LC)	08
9019	Attach to DS5000	01
9202	Field Integrate	01
9800	Power Cord	04
	Annual Maintenance (24 X 7 X 4) Provided by IBM	3-Years
	Configure one 1818-D1A on a single channel and single loop	
	Configure three 1818-D1A on a single channel and single loop	
2805-MC3	System Storage Productivity Center	01
0017	TotalStorage Productivity Center order	01
1170	Power Cord	02
1810	Dual Power Supply Option	01
	Field Integrate	
	Annual Maintenance (24 X 7 X 4) Provided by IBM	3-Years
2498-B24	IBM System Storage SAN24B-4 Express	02
	8 Gbps SW SFP Transceiver 8-Pack	06
	8-Port Activation	04
6942-25B	Warranty Service Upgrade – 24 x 7 x 4 WSU – Same Day Response 3-years	02
	Provided by IBM	
	Field Integrate	
SVC Licensing	10TB additional licensing over the existing 48TB license currently in place.	

Services: Upgrade existing SVC to latest code level. We will be using the existing SVC to integrate the new storage and new SVC into our SAN. Existing SVC specifications:

Machine Type:	2145 4F2
Serial No.:	75-AFVZA and 75-AFXXA
Software Version:	3.1.0.549

This solution must:

Be field integrated, installed and configured. The installation is to be validated by IBM-badged technicians and the installers must remedy any defects found by IBM and IBM must recertify the installation after the defects are remedied:

- A. Integrate new SAN24B-4 switches into the existing fiber fabric as the new hub of the fabric. The current fabric consists of 2495-B24 and 2005-B32 switches.
- B. Upgrade the existing SVC to the latest code level.
- C. DS5100 and associated expansion units physically assembled, integrated and tested as operational in PBCC-provided rack enclosure(s) with redundant, multipath connections to the fiber fabric.
- D. Partition the storage in the DS5100 to PBCC specifications.
- E. New SVC assembled, integrated and tested as operational in PBCC-provided rack enclosure(s) with redundant, multipath connections to the fiber fabric.
- F. Create a multipathed, 4-node SVC cluster combining the new and existing SVCs. Configurations from the existing SVC replicated onto the new SVC.
- G. Present DS5100 LUNS as MDISKS to the SVC cluster.
- H. Create 1 MDISK group in the SVC from the DS5100 storage to verify functionality.
- I. Create 1 VDISK from the newly-created MDISK group and successfully present the VDISK to a host.
- J. Successfully write data to the newly-created VDISK from the attached host.
Be able to expand to at least 125TB by adding some combination of FC or SATA drives.
Support Dynamic Hot Spare disks with a minimum of one hot spare disk for each disk type addressable by any raid group within that disk type.
Have any "call home" diagnostic functions enabled and documented as functioning prior to the completion of field integration.
Include a diagram of equipment layout in electronic format, preferably MS Visio.
Include a diagram of the SAN wiring/pathing in electronic format, preferably MS Visio.
Include a list of IO groups each MDISK is presented to in electronic format, preferably MS Word.

Any work that will disrupt production systems will be performed during the PBCC IT maintenance window of 2:00 am – 6:30 am on Thursday mornings.

The part numbers listed are the most current part numbers available to PBCC at the time of preparation of the parts list. If any of the parts have been superseded by a newer part number with equivalent or better performance than the part listed, that new part number and part are to be quoted.

Delivery location: 4200 Congress Ave.
Room ITA 119
Lake Worth, FL 33461

FOB Destination, inside delivery, carrier will need a truck with a lift-gate.

PRICE PROPOSAL

The total lump sum price to furnish, install and maintain all equipment in accordance with the specifications, terms and conditions of this ITB shall be:

(numerals)\$ _____

(words) _____ dollars

Name (please print): _____

Firm: _____

Signature: _____

Date: _____