

REQUEST FOR QUOTATION	TROY SCHOOL DISTRICT 1140 RANKIN, TROY, MICHIGAN 48083 248-823-4027 FAX: 248-823-4077	REQUISITION
No. 9729		
DUE DATE 04/26/12 NO LATER THAN 3 p.m.		DATE 04/12/12

REQUEST FOR QUOTE – NOT AN ORDER

THIS FORM MUST BE UTILIZED WHEN RESPONDING TO THIS REQUEST
 BID ENVELOPE ENCLOSED

THE RFQ NUMBER MUST APPEAR ON ALL QUOTATIONS AND RELATED CORRESPONDENCE, THIS IS NOT AN ORDER

Quantity	DESCRIPTION	UNIT PRICE	AMOUNT
	<p>Please supply us with your bid to furnish the Troy School District with SERVER EQUIPMENT, SERVICES AND WARRANTY.</p> <p style="text-align: center;"> Copies of the bid are available at: www.troy.k12.mi.us/purchasing/items_out_for_bid.htm </p> <p style="text-align: center;"> Bid recaps will be available at: troy.k12.mi.us/purchasing/index.htm </p> <p style="text-align: center;"><u>FACSIMILE BID IS NOT ACCEPTABLE</u></p> <p>Bids will not be accepted if submitted after the deadline specified (local time) in the advertisement to bid or in the information to bidders. The late submission of a bid makes the bid nonrepsonsive and is a material defect which shall not be waived by the Board of Education. Delays in the mail will not be considered. All Late bids in the mail will be returned to the bidder unopened.</p> <p>Proposal for the submission of alternatives by vendors will be accepted and reviewed. However, if any substitution or departure is not clearly noted and described, it will be understood that the bid intends to exactly meet the specifications.</p> <p>The Board of Education shall be the sole judge as to whether the proposed goods are "equal" or "approved". Quotations must be mailed or delivered to the Purchasing Office, 1140 Rankin, Troy, MI 48083 no later than 3 p.m. on the date shown above. Michigan State Sales and Use Taxes and Federal Excise Taxes do not apply unless otherwise indicated. Exemption certificates will be furnished when necessary. This request imposes no obligations on the buyer. The Board of Education reserves the right to accept or reject any or all bids or to split awards by items or to accept bids, which will best serve the Board of Education.</p>		

THIS AREA MUST BE FILLED IN

DELIVERY TIME	PRICES FIRM FOR	NAME OF COMPANY	TELEPHONE NO.
TERMS		NO. & STREET	FAX #
FOB DELIVERED	ALL DELIVERY CHARGES MUST BE INCLUDED IN PRICES SHOWN	CITY, STATE & ZIP CODE	E-MAIL
CONTACT PERSON (PLEASE PRINT)		SIGNATURE	DATE

AFFIDAVIT OF BIDDER

The undersigned, the owner or authorized officer of _____
 (the "Bidder), pursuant to the familial disclosure requirement provided in the _____
 _____ (the "School District") advertisement for construction bids, hereby represent and warrant
 except as provided below, that no familial relationships exist between the owner(s) or any
 employee of _____
 _____ and any member of the Board of Education of the
 School District or the Superintendent of the School District.

List any Familial Relationships:

BIDDER:

By: _____

Its: _____

STATE OF MICHIGAN)
)ss.
 COUNTY OF _____)

This instrument was acknowledged before me on the _____ day of _____, 2012,
 by _____.

 _____, Notary Public

_____ County, Michigan

My Commission Expires: _____

Acting in the County of: _____

**TROY SCHOOL DISTRICT
SERVER EQUIPMENT, SERVICES AND WARRANTY
BID #9729**

Overview

The Troy School District ("the District") is a 12,000 student public K-12 school district in Oakland County, MI, comprised of 20 instructional buildings (twelve elementary, four middle, two comprehensive high, one alternative/community high, and one International Baccalaureate high school) and four administrative and support facilities. Each building has high speed Internet connectivity via a district fiber optic network, and every classroom has at least one dedicated instructional computer.

The District currently has labs of Windows XP desktops in every building. The District is looking to expand our existing VMware 5.0 VDI environment to deploy and present 1250 more Virtual Desktops.

The current VDI infrastructure currently is composed to support 750 Desktops through the following configuration:

1. The Cisco Unified Computing System (UCS) design consists of 2 Cisco 6120 Fabric Interconnects, 2 Cisco 5108 Series Blade Chassis with two Cisco 2104 Fabric Extenders (FEX) each, 2 Cisco B250M2 Blade Servers and 5 Cisco B200M2 Blade Servers. The core part of the Cisco UCS is the Cisco 6120 Fabric Interconnects. The fabric interconnects provide the management and communication backbone for the UCS solution. The physical connectivity can be divided into three areas: Server ports, LAN Uplinks and Data (NFS/FCoE) Uplinks.

Server Ports

- Each 6120 Fabric Interconnect is configured with two active server ports per chassis. Each fabric interconnect connects to a single FEX in each Cisco 5108 blade chassis to provide an aggregate of 20Gbps from each FEX to the corresponding Fabric Interconnect. This configuration provides a total of 40Gbps in an active/active state from each UCS 5108 Chassis to the Fabric Interconnect cluster.

LAN Uplinks

- Each 6120 Fabric Interconnect is configured with two 1Gbps links to the core switches. Each fabric interconnect will provide 2Gbps to the core layer combining to provide an aggregate of 4Gbps of usable bandwidth.

Storage Uplinks

- Each 6120 Fabric Interconnect is configured with 2 8Gbps Fibre Channel (FC) links to an individual SAN fabric via Cisco Nexus 5010 fabric switches.

2. EMC Symmetrix VMAXe – Dual Engine Array
 - (74) 450GB 15K Drives
 - (26) 2TB – 7.2K NL Drives
 - (13) 200GB Enterprise Flash Drives

3. VMware Licensing:

Quantity	Part	Description
1	VU4-PR-100-C	View 4 Premier Kit Starter bundle: 100 Pack
65	VU4-PR-10-C	View 4 Premier Bundle: Add 10 Pack

Length & scope of project

Based on a planned April Board of Education approval and providing time for ordering, the District intends to begin staging and building of the virtual environment in July 2012. Any disruptive, service interrupting tasks will be scheduled for after-hours and weekend schedules, or after the last day of school.

NOTE: that many staff work year-round and all service outages must be scheduled at least 24 hours in advance – Bidders shall not assume that summer months provide unlimited ability to disrupt services. However, the target completion date of the entire virtualization project is August 15th, 2012.

Mandatory requirements of this bid include holding the pricing provided for hardware and integration labor rates provided in this bid response for 12 months from the date of first purchase order by the district. Also, all pricing must be valid and extended to any Oakland County School District who may choose to participate within the first three months of the project at the provided pricing.

Desired configuration

Base bid Hardware:

Provide all hardware, network connectivity, cabling, licensing, and maintenance necessary to expand the existing UCS infrastructure to accommodate an additional 1250 VDI desktops. Storage expansion is being bid in a separate bid. Hardware must interconnect and have proven functionality with our existing VDI environment in a supported configuration by all existing hardware manufacturers in the environment.

Base bid Services (all services to be performed with District staff present for knowledge transfer)

- Staging, installation, configuration, patching, and updating of server hardware, OS, & VMware environments
- Constructing VMware Pools for 1250 Virtual Desktops
- Virtual environment optimization including vCenter configuration and optimization
- Network & backup configuration changes to ensure connectivity and data protection
- **Migrating applications to the Thin App Environment:**
- On-site after VDI go-lives to ensure full functionality/remedy issues

Base bid warranty:

- Three year 24x7x4 on-site support for server and storage hardware
- Three year annual support and subscription for all VMware software licenses

Alternates

Alternate 1:

- MA-1: VMware Enterprise Plus and vCenter Server Standard with sufficient licenses to properly cover the above hardware and 1250 Virtual Desktops, with three years of subscription/support. The District is eligible to purchase from REMC and Merit Licensing contracts.

Alternate 2:

- MA-2: Microsoft operating system licensing, sufficient to support 1250 Virtual Desktops, and all Server OS licensing. Troy School District is currently on a ESS License Agreement and all existing licensing and CALs were purchased under this license. The District is eligible to purchase from volume contracts through REMC or Oakland Schools' School License Agreements. Bidders are to provide options, one-time and annual licensing, and recommendations for optimal licensing agreements at lowest total overall cost.

Alternate 3:

- MA-3: Add one year (four years total) 24x7x4 on-site support for server hardware

Alternate 4:

- MA-4: Add two years (five years total) 24x7x4 on-site support for server hardware

Alternate 5:

- MA-5: Add two years (five years total) support and subscription for VMware software

**TROY SCHOOL DISTRICT
SERVER EQUIPMENT, SERVICES AND WARRANTY
BID #9729**

NAME OF BIDDER: _____

ADDRESS: _____

TELEPHONE: _____

SIGNATURE: _____

PRINTED NAME: _____

Pursuant to and compliant with your Advertisement for Bids and Bid Documents, we the undersigned propose to furnish the equipment and materials described therein for the purpose of supplying the Troy School District with Hardware to expand VDI environment for 1250 additional virtual desktops, and agree to the payment terms outlined within the Bid Documents.

BASE BID – Provide all hardware, network connectivity, cabling, licensing, and maintenance necessary to expand the existing UCS infrastructure to accommodate an additional 1250 VDI desktops.

_____ Dollars \$ _____

Note: The amount shall be shown in both words and figures. In case of discrepancy, the amount in words shall be determinat.

Please provide a detailed bill of materials that corresponds to the dollar amount listed.

VOLUNTARY ALTERNATES – Bidders may propose alternatives to certain solutions if permitted in the bid documents. Attach additional alternates, if any, on a separate sheet of paper. The amounts provided below are inclusive of all costs, expenses, fees, shipping, overhead & profit, and other charges.

Alternate 1: _____

Add/Deduct _____

_____ Dollars \$ _____

Alternate 2: _____

Add/Deduct _____

_____ Dollars \$ _____

Alternate 3: _____

Add/Deduct _____

_____ Dollars \$ _____

UNIT PRICES – Total quantities may be increased or reduced based on the following schedule of unit prices. The amounts provided below are inclusive of all costs, expenses, fees, shipping, overhead & profit, and other charges.

Unit Price	Description	Add	Deduct
UP-1			
UP-2			

MANDATORY ALTERNATES – The District reserves the right to increase or decrease the Base Bid price using the following schedule of prices. The amounts provided below are inclusive of all costs, expenses, fees, shipping, overhead & profit, and other charges.

Unit Price	Description	Add	Deduct
MA-1			
MA-2			
MA-3			
MA-4			
MA-5			
	Shipping Charges		

Delivery Address:

Technology Resource Center
Troy School District
4420 Livernois
Troy, MI 48098

**Troy School District
Server
Bid #9729**

	Data Strategy	Information Systems Intelligence	Netech
Base Bid	161,305.35	121,463.58	146,828.37
UP1			
UP2			
MA1	305,042.14	353,391.45	324,625.00
MA2		349,950.00	344,100.00
MA3	608.20	1,604.71	1,680.14
MA4	1,216.40	3,209.49	3,360.28
MA5	132,812.50	138,346.25	141,000.00
VA1		26,353.66	29,200.30
VA2		2,582.39	
VA3		26,933.16	
Affidavit	Yes	Yes	Yes