DAYALBAGH EDUCATIONAL INSTITUTE

DAYALBAGH, AGRA

Call for Proposals

NOTICE

No. DEI/Quotation/   Date: 25/1/2018

Subject: Call for Proposals.

Proposals are hereby invited for the supply of the following item(s) with quantities as mentioned against each item:

S.No.	Items(s) with specification
1	**A complete solution for a computer lab setup. For details see annexure A, Annexure B**

It may be noted that for large orders, the Institute prefers authorized suppliers only.

The suppliers must mention number of this notice for quotations and date and also specify terms of supply including warranty/guarantee, delivery period, taxes payable, freight and forwarding charges, installations, implementation, setup, payment terms and other conditions clearly. The proposals may be submitted to Head, Department of electrical engineering, Faculty of engineering on or before 10/2/2018.

(Signature of the Purchaser)

Annexure A

Proposals should accompany **quotations and a point wise summary explaining what all requirements are met and till what extent**. This will be followed by shortlisting based on technical merits of proposals and our budgetary constraints. We may call participants to explain/present the proposed solution in detail.

Requirement for computer lab setup

We need a computer lab setup to serve a set of diverse requirement arising from different department. The computing lab is going to be a shared resource. Earlier setups comprises individual desktops without any orchestration tools which made the task of offering uniform software environment across all terminals a challenge. Some applications required windows while others required linux. We would like the lab to be shared across classes,courses, departments and programmes.

1. We need a plan for setup of computer lab in a phase wise manner. We are looking for 30 terminals at a time. Plan should also include how the solution would scale to 60, 90, 120 terminals. Right now we are just targeting 30 terminals

2. Our registered user count is going to be much higher i.e. around 1300. Some of them might be infrequent visitors to lab. At any time only 30 user will be working.

3. A primary concern would be ease of manageability. We need total control over each endpoint in terms of environment , software, user access rights, usb access control etc. This is the major challenge we were facing when we had individual desktops. We still have individual desktop which are tough to manage. Preliminary exploration has led us to believe that virtualization can offer us ease of manageability. There is a possibility of partial workload running on cloud and partial workload running on premise or complete workload running on premise.

4. If the solution offers thin client, we need a solution to manage thin clients.

5. We will need support for usb for pendrive and other peripherals.

6. There are orchestration tools(eg. SCCM, ansible, salt, chef) that can also serve the purpose but we haven't really explored. We don't have a specific preference for Virtualization and thin clients. An elegant solution based on desktop and endpoint management solution is something that we are keen to evaluate.

7. We will need linux (RHEL, Ubuntu) and windows environment. There may be users using using both Linux and windows. It would be nice if there is integration of their windows homespace and linux homespace.

8. We need antivirus.

9. We will need some shared storage with quota system.

10. Occasionally we may need to take backups of user data, softwares, images etc.

11. Some of the applications may be graphics intensive and require GPU acceleration.

12. We will also be running audio, video, multimedia, conferencing applications.

13. The solution needs to include networking gear, network monitoring tools, endpoint monitoring, remote support etc.

14. We need ability to track physical assets like mouse and keyboards, thin clients. If they are disconnected from the network, it would be nice to know the approx time. Refer link.

15. We will need installation and implementation service.

16. We will need power backup with maintenance contracts.

17. We need 10 year of hardware support, warranty.

18. We need 10 year of software support and upgrades.

19. We need 10 year insurance of this entire solution.

We encourage you to discuss further regarding what all requirement can be relaxed.
For further clarification please get in touch with Mr. Amol Gupta,
amolgupta87@gmail.com , +91-9897860992.
The proposals may be sent at amolgupta87@gmail.com , aksaxena61@gmail.com

Annexure B

Target application

Here is a list of target applications that we may be running

1. Computer Aided Design (CAD) applications/ Developer applications
   a. Matlab (req)
   b. Mentor design toolchain
   c. Autocad (req)
   d. solidworks (req)
   e. shoe master
   f. vivado design suite/FPGA design toolchain from xillinx
   g. Visual Studio (req)
   h. Librecad (req)
   i. Octave (req)
   j. codeblocks
2. Productivity and communication app
   a. MS office / Libre office / open office
   b. 7z
   c. chrome/firefox etc.
   d. JAVA
   e. Adobe (flash,pdf)
   f. evince, xpdf
   g. gimp/photoshop/
   h. gvim
   i. ammy Admin
   j. Teamviewer
   k. Italc/epoptes/ veyeon
   l. skype
   m. VLC
   n. DIa
   o. Xfig
   p. Visio

Xilinx Vivado System requirement:-
Processor: i5 or more 64bit processor
Memory: 8 GB ram or more.
Hard Disk Space : 1000 GB or more
Operating System: Windows 7/8.1/10 64 bit, RHEL 6/7 64 bit, Ubuntu 16.x/15.x/14.x 64bit, CentOS 6.x/7.x 64 bit
Communication: LAN connectivity (Floating)

Mentor Graphics System requirement:-

Server Configuration (only license machine)
Processor: i5 or more 64bit processor
Memory: 8 GB ram or more
Hard Disk Space: 1000 GB or More
Operating System: RHEL 6/7 64 bit, CentOS 6.x 64 bit
Communication: LAN connectivity (Floating)
Server Configuration(if they want to use the only xmanager, ssh):-
RACK Server or Desktop Server with 64-bit processor architecture
Memory : 64GB RAM or more.
Hard Disk Space : 1000 GB or more.
Operating System : RHEL Server.
Communication: LAN connectivity (Floating)

HEP1:-
Processor: i5 or more 64bit processor
Memory: 8 GB ram or more
Hard Disk Space: 1000 GB or More
Operating System: RHEL 6/7 64 bit, CentOS 6.x 64 bit
Communication: LAN connectivity (Floating)

HEP2:-
Processor: i5 or more 64 bit processor
Memory : 8 GB ram or more
Hard Disk Space : 1000 GB or More
Operating System: Windows 7/8.1 64 bit, RHEL 6/7 64 bit, CentOS 6.x 64 bit
Communication: LAN connectivity (Floating)

Cadence tool chain system requirement

Suggested System Requirements and Lab Set-up

Operating System	Hardware Requirements				Operating System Requirements
	Hard Disk Space		Size of the RAM		
	Minimum (GB)	Recommended (GB)	Minimum (GB)	Recommended (GB)	
LINUX	Server: 80	Server: 160	Server: 4	Server: 8	RHEL 6.x 64-bit
	Clients: 80	Clients: 160	Clients: 4	Clients: 8	