

Open Competitive Bid (OCB)

For

Procurement of Computer Hardware

For

Commissioner of Collegiate Education, Hyderabad, AP

Proprietary & Confidential

**Andhra Pradesh Technology Services Limited,
Boorgula Ramakrishna Rao Bhavan, B-block, 4th floor,
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Newspaper advertisement.

apts

**Procurement of Computer Hardware for
Commissioner of Collegiate Education Department, Hyderabad for 43 Colleges spread across in the state of
Andhra Pradesh**

Tender call for

**Procurement of Computer Hardware
(Servers -73Nos, Work stations-43Nos, Thin Clients-1133Nos and 1kVA Online UPS – 82Nos)**

Time schedule of various tender related events:

Bid calling date	26-06-2010
Pre-bid conference date/time	30-08-2010, 11-00 AM
Last date/time for clarification	28-08-2010, 05-00 PM
Bid closing date/time	06-09-2010, 03-00 PM
Bid opening date/time	06-09-2010, 03-30 PM
Bid Document Fee	Rs.10,000/-
APTS Contact person	Manager (HWP)
APTS Reference No.	APTS/HWP/1557/CCE-HYD/2010

If your firm is interested in participation, please ask the contact person for details or visit our Web site at <http://www.apts.gov.in/tenders.asp>. The bid document fee is payable only when you indent full copy of the bid document. The quantities mentioned above are only indicative and may vary depending on actual requirement.

Managing Director

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Section A
Tender call notice.

Andhra Pradesh Technology Services Limited (APTS),
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Tank Bund Road, Hyderabad, AP 500 063, India.
Phones : (40) 23220305; (40) 23223865; Fax: (40) 23227458/23228057.

Procurement of Computer Hardware

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APTS Contact person	Manager (HWP)
APTS Reference No.	APTS/HWP/1557/CCE-HYD/2010

A. The solution, service or material required:

A.1 Supply and commissioning of Servers, Thin Clients and UPS and other items for the Commissioner of Collegiate Education Department and 43 designated Govt. Degree Colleges spread across the state.

Schedule-I	Qty
D.1.1. SER – Servers	73 Nos
D.1.2. WS – Workstations	46 Nos
D.1.3. TNC – Thin Clients	1133Nos
D.1.4. UPS – 1KVA Online UPS	82Nos
D.1.5 LAN Cabling	LS

A.2. Scope of incidental services:

1. Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods.
2. Warranty period services for Three years Comprehensive for all the offered items mentioned in Scheduled-I

A.3. Maintenance:

Bidder should indicate Annual maintenance cost after expiry of warranty period of Three years in the bid.

A.4. Delivery and Installation period

Bidder shall deliver the goods/services within **Four weeks** and install and commission the same within **Seven weeks** from the date of contract signing. The delivery locations (43 Govt. Degree Colleges approximately) are spread across the state of AP.

A.5. Warranty

Comprehensive Warranty On-site period is *Three years (Including Spares-Parts/Service/Labour/Onsite)* for all the offered items mentioned in Scheduled-I as detailed in the table below. During warranty period the bidders should conduct preventive maintenance once in every quarter besides attending to the regular maintenance/support calls.

SI No	Item Particulars	Warranty period
1	D.1.1. SER – Servers	3Years
2	D.1.2. WS – Workstations	3Years
3	D.1.3. TC – Thin Clients	3Years
4	D.1.4. UPS – 1 KVA Online UPS	3Years
5	D.1.5 LAN Cabling (Active components)	LS

Section B

B.1 Pre-Qualification criteria:

1. The bidder should be a manufacturer/authorized representative of a manufacturer/whole sale dealer and should be in business of manufacture and or supply and maintenance of the offered items for a minimum period of **Three years** in AP as on bid calling date.
2. A. For Schedule-I:- The bidder should have atleast one Service Center in each of the district (own/authorized) with atleast three service support personnel at each of this service center as on bid calling date. Details of the service centre details should be enclosed in Form P4.
3. The bidder/OEM should have minimum annual **turnover** for the items/product mentioned (irrespective of brand/model) and for the brand offered, during the period of any two financial years of 2007-08, 2008-09 & 2009-10 as follows:

SI No.	Item name	Financial Years	Total Sales (nos.)	Brand offered sales(nos)
1	Servers	2007-10	146	73
2	Workstation	2007-10	92	46
3	Thin Clients	2007-10	2266	1133
4	Online UPS only	2007-10	164	82

4. The bidder should furnish the information on major past supplies under the relevant product/services and satisfactory performance for the last Three financial years

Note : Relevant documents in support of above should be furnished.

Section C

C1. Statement of important limits/values related to bid

Item	Description	
EMD Schedule – I	Rs. 7.68 Lakhs	
Bid Validity Period	120 days from the date of opening of bid	
EMD validity Period	45 days beyond bid validity period	
Maintenance Period	3years maintenance including warranty period for all items mentioned schedule – I	
Variation in quantities	+/- 25%	
Period for furnishing performance security	Within 7 days from data of receipt of Notification of Award	
Performance security value for Schedule I	10% of contract value for Schedule- I in favor of “The Commissioner of Collegiate Education, Department, AP Hyderabad” from any Nationalized / Scheduled Bank.	
Performance security validity period	60 days beyond warranty period for Schedule- I	
Period for signing contract	Within 10 days from date of receipt of notification of award	
Warranty period	36 months from the date of successful installation of all goods of Schedule- I	
System Integration and Installation of items of Schedule- I	It is the responsibility of the successful bidder for system integration of the products mentioned in the schedule-I, namely Low-end-Server and Thin Clients & UPS at the respective sites	
Up time %	97% calculated over 3 calendar months period. For the purpose of up time calculation, day will be counted of 12 hours duration –8.00 AM to 8.00 PM on all days.	
AMC Performance Security Value and period	Equal to AMC value valid for 24 months	
Payment terms	Payment terms	Cumulative payment
	On delivery & successful installation.	90% of contract value
	On Acceptance	100% of contract value
	Incase site not ready	75% of the Contract value for that site / location.
	* Note : All the Delivery challans & installation reports/site not ready Certificate/report to be Counter signed by the respective district the Project Officers.	
LD for late deliveries	LD for late deliveries: 0.1% of the late delivered or deemed late delivered goods for 1 st week or part there of, 0.1% for 2 nd week or part there of, 1% for 3 rd week or part there of, 1.5% for 4 th week or part there of, 2% for 5 th week or part there of and so on.	
Maximum LD for late deliveries	Maximum LD for late deliveries: 10% on the Total value of goods for that location/site for late delivery or deemed late delivered goods.	
Penalty for failure to maintain during warranty period for Schedule-I items	If down time is more than the permissible down time following penalties shall apply : For every 1% reduction in up time from 97%, penalty will be 0.3% of equipment cost, which is down or deemed down as the case may be.	
Options for the required equipment	If the bidder wants to give option, he may submit it as separate bids along with separate EMD. This will be treated as separate bid for evaluation.	
Conditional bids	Not acceptable and liable for rejection	

Section –D

D Technical specification: (All components must be OEM – Make only)

Schedule – I

D.1.1. SER Servers –73Nos.

Make	----- (Specify) -----
Model	----- --(Specify) -----
CPU	2x Intel Xeon Quad Core E5620 @ 2.4Ghz Processor with 12MB Smart Cache or AMD Opteron Processor Model 6128 (2GHz, 12MB Level 3 Cache)
Chipset	Compatible Intel 5500 series chipset or AMD Chipset SR5670
RAM	8GB (4 x 2GB) DDR3registered unbuffered memory @1066 MHz Expandable to 48GB
HDD	2 x 300 GB, 15K RPM SAS 6 GBPS Hard drives
Network Interface	Integrated Gigabit Ethernet Card
Optical drive	DVD Writer
Monitor	18.5” TFT / LCD Monitor Resolution 1024 x 768 @ 75 Hz, Monitor quoted should be of the OEM make.
Graphics	Integrated Graphics
Expansion slots	PCI Slots as per the OEM standards
Audio	High definition audio with External speakers set (Sound Card)
Interfaces	1 Keyboard, 1 Mouse, 1 Graphics, 1 Serial, 1 Network RJ-45, Minimum 6 USB 2.0 (2 front, 4 rear) , and specify any extra
RAID Controller	Integrated Controller Card with RAID 0/1/5/6 on board
Keyboard	104 Keys USB Keyboard of OEM make
Mouse	2 button Optical USB Scroll Mouse of OEM Make
Form Factor	Tower
Power supply	Standard Power as per the OEM (Specify the watts)
Manageability	Server Management software to manage the entire systems in the network remote management.
OS support	Microsoft Windows Server 2003, Red Hat Linux, SuSE Linux
Certifications	Microsoft Windows Server, Red Hat Enterprise Linux (RHEL) or SUSE Linux Enterprise Server (SLES), & VMware

D.1.2. WS Workstations –46Nos

Make	-Specify-
Model	-Specify-
CPU	Intel Xeon Quad Core W3520 processor(2.66Ghz, 8 MB cache); with Liquid Cooling Technology or better
Chip set and mother board	Intel X58 Express Chipset on OEM mother board or higher
Memory	4GB(2x2GB) DDR3 - ECC minimum 4DIMM slots
Hard disk drive	320 GB SATA II 3.0GB/S 7200 RPM drive
Storage controller	Integrated 6 channel serial ATA 3.0 Gb/s controller with RAID 0,1,5 and combination of 1&0 functionality
Graphic card	Professional 3D Graphic card (256 MB) or higher
Key board	Standard PS/2 key board
Mouse	PS/2 Optical scroll mouse
Monitor	17'' TFT Monitor of OEM Make
DVD Writer	DVD Writer
Web Camera	HD 2MP Web Camera
PCI Slots	6 PCI/PCI Express Slots with minimum 2 PCI Express X16 Slots
Bays	Total 4Bays with minimum 2 internal and external
Ports	6 USB 2.0 or higher (Min. 2 in Front) RJ-45, audio in audio out, mic in
Net working features	Integrated 10/100/1000
Power supply	As per manufacturer standard
Bundle soft ware	System health monitoring tool
Security	Integrated Panel lock or pad lock
OS Support/ Certifications	Microsoft Windows , Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise
Operating System	Linux
Rack Mounting	System should Support Optional Depth Adjustable Sliding Rail Rack Mounting; with an optional internal USB dongle mounting kit
Additional Software	<ol style="list-style-type: none"> 1. The hardware vendor should supply an automatic system performance tuning software, which ensures optimum performance tuning for leading software on Windows. 2. System Software Manager should be available free of cost. 3. A backup and restore utility should be provided pre-loaded with the system, with provisions for full disk/system backup, creation of Recovery media, selected file/folder backup and restore, scheduling of backup etc. Software should support CD-less recovery of the system. 4. System should be pre-loaded with a Video conferencing and Application sharing software from the workstation manufacturer. 5. A complete Offline Diagnostics and Asset Discovery software suite should be supplied along with the system.

D.1.3. TNC**Thin Clients – 1133 Nos.**

Make	-Specify-
Model	-Specify-
Flash Memory	Self-powered 2GB
Main Memory	1Gb DDR 2 SDRAM, 64 MB reserved for Graphics
Secondary storage	Option to have internal storage through USB in a secured compartment
Processor	VIA Eden 1 Ghz - fanless design
Peripherals	(a) PS/2 Optical mouse (b) 104 Keys PS/2 Keyboard (c) option for VESA mounting support for the thin client to mount the thin client behind TFT, Under the desk or on the wall.
Monitor	15" TFT Monitor of OEM Make
Network Interface	10/100 / 1000 Mbps Ethernet (auto sensing) NIC, RJ45 connector.
Graphics	VIA Chrome9 HC3 DX9
Ports/Slots	(a) 1 serial port, 1 parallel port (b) 2 PS/2, 4 External USB, 2 Internal USB ports in secured compartment (c) 1/8 inch 16 bit, stereo audio output +8 bit mini mike input with internal speaker (d) VGA & DVI - D Port
Security	Option to SELECTIVELY enable / disable external & secured USB ports.
Display	Max Resolution 1920 x 1200, 32 Bit
OS Support /Certifications	Windows Embedded operating system suitable for running English LAB software
Emulation/Protocol support	Microsoft Windows XP Embedded SP2 or SP3 Citrix ICA 10.x and Microsoft RDP 6.0 Microsoft Internet Explorer 7.0 Windows Media Player 11 Symantec Endpoint Protection Agent Device Manager Agent Thin State for image capture and redeploy Teem Talk Terminal Emulation Suite or equivalent Emulation Suite.
Network	(a) TCP/IP with DNS and DHCP wake on LAN (b) DHCP support for automatic firmware upgrades & unit configuration. (c) PPP (PPPOE, PPPTP)
Power supply	100-240 Volts AC, at 50-60 HZ, Must be external to avoid internal heating
Regulatory Standards	CE or equivalent strictly adhering to the standards , UL/RoHS certified for effective power consumption and reduction in hazardous substances.

D.1.4. UPS01- 1 KVA Online UPS – 82Nos.

Make	Specify
Model	Specify
Capacity in VA / Watts	1000 VA / 800 Watts
Technology	Advanced DSP Controlled Double Conversion Design, SPWM Technology with IGBT's
Self Test	UPS should be capable of performing self test during Power on to ensure reliable operation
Input	
Voltage Range	Wide range from 145V to 295VAC
Frequency Range	45 to 55 Hz
Phase	Single Phase with ground
Power Factor	Active Power Factor Correction >0.99 to unity
THDi	<5% with full load
Galvanic Isolation	Built-in Galvanic Isolation at input
Output	
Voltage	220VAC / 230VAC / 240 VAC
Voltage Regulation	+/-1 %
Frequency	50 Hz +/- 0.2%
Frequency (Synchronized Range)	45 to 55 Hz
Harmonic Distortion(THDv)	≤ 3% (linear load)
	≤ 5% (non-linear load)
Output Waveform	Pure Sinewave
Crest Factor	3:1
Efficiency AC - AC	High Efficiency > 90%
Power Factor	0.8
Battery	
Battery Type	Sealed Lead Acid Batteries(Exide/Panasonic/Amraraja/Rocket)
Backup time	126 AH(12V,42 AH, 3 Nos.)
DC Volts	96 V DC or Higher
Charging current	8 Amps or Higher
Rack	Battery Rack should be provided
Battery Type	Spill proof, Sealed Lead Acid Maintenance Free Batteries (Exide/Amraraja-Quanta/ Panasonic / G.Yuasa/Orchid Make)
	trickle charge modes with current limiting features
Charger	Built-in solid state float-cum-boost charger with automatic boost /
Transfer Time	
Line Mode to Battery mode	0ms
General	
Cold start	Should be Available
Display & User Friendly front panel	2 Line X 20 Characters LCD with Back Light display of informative Indicators along with Mimic display of all important parameters
Indications	Mains ON, Inverter ON / OFF / Faulty, Battery Level, Static Bypass ON, Load Level

Audible Alarm	Mains Failure Alarm, Low Battery Alarm and Overload
Operating Temperature	0 to 45 deg.C
Noise Level	<50 dB @ 1 Meter
Protection	Advanced Electronic protection for device safety backed with MCBs / MCCBs / fast acting fuses. High speed pulse blanking, Electronic overvoltage / under voltage
Bypass	Static Bypass
Foot Prints	UPS should be compact to save considerable space
Communication Interface	
Standard	RS 232/USB port or SNMP Interface for software
Certification	ISO 9001-2000, ISO 14001-2004
TEST Reports	ETDC / SAMIR test reports valid or latest certification to be enclosed
Cabling and Connectors	It is the responsibility of the successful bidder to install & commission the UPS(Required cabling if any for the I/o & O/p connections to the extension of 5-10Mtrs on both sides to complete the installation of UPS systems)

D.1.5. Local Area Networking Cabling Components

Ethernet Switch	16 Port rack mount Ethernet Switch
Standards	IEEE 802.3 10BASE-T Ethernet
	IEEE 802.3u 100BASE-TX Fast Ethernet
	ANSI/IEEE 802.3 NWay auto negotiation
Protocol	CSMA/CD
Data Transfer Rates	10/100Mbps Ethernet
Topology	Star
Network Cables	10BASE-T: UTP Cat. 3, 4, 5 (100 m) EIA/TIA-586 100-ohm STP (100 m)
	100BASE-TX: UTP Cat. 5 (100 m) EIA/TIA-568 100-ohm STP (100m max.)
Number of Ports	10/100Mbps port x 16
Media Interface Exchange	Auto MDI-II/MDI-X for each port
Twisted-pair Rx Reverse Polarity	Auto-correction for each port
Diagnostic LEDs	Per device: Power
	Per port:
	Link/Activity
	Full-duplex/Collision
	100Mbps speed
Transmission Method	Store-and-forward
Filtering Address Table	8K entries per device
MAC Address Learning	Automatic update
Packet Filtering Rates	10BASE-T: 14,880 pps per port (half-duplex)
	100BASE-TX: 148,810 pps per port (half-duplex)
Packet Forwarding Rates	10BASE-T: 14,880 pps per port (half-duplex)
	100BASE-TX: 148,810 pps per port (half-duplex)
RAM Buffer	4Mbits per device
Power Supply	Internal power supply as per Manufacturing standards

Sl.No.	Local Area Networking Cabling Component particulars	UoM	Qty
1	16 Port rack mount Ethernet Switch (as mentioned above)	1	50
2	Solid Cable Cat 6, 4 pair,23 AWG, ETL Verified min. 250Mhz, 4 pair UTP - 305mts (305 Mtrs @ 1.5 Box per College)	Boxes	75
3	2" Casing & Capping-Sudhakar Make	RM	2500
4	Information Outlet Cat 6 UTP with Shuttered Single Port and flame retardant backbox, ETL Verified minimum 250 Mhz for Channel Transmission.	Nos	500
5	7ft factory crimped patch cords EIA/ TIA certified	Nos	500
6	Laying & crimping at the I/O side & at switch end	LS	50
7	Fixing of the information Outlets with backbox	Nos	500

Note : The quantities mentioned above are taken for evaluation and are subject to variations and payment will be made as per the actual quantities used at site(s).

Section E

E.1 Bidding procedure - Separate bid for each schedule:

E.1. Offers should be made in three parts namely, “Pre-qualification bid”, “Technical bid” and “Financial bid” and in the format given in bid document. Each offer should be placed separately.

- 1.) EMD details should be given in the “Pre-qualification bid”.
- 2.) Tenders will be accepted only from those who have paid the tender document fee.
- 3.) All correspondence should be with APTS contact person.
- 4.) A complete set of bidding documents may be purchased by interested bidders from the APTS contact person upon payment of the bid document price which is non-refundable. Payment of bid document price should be by demand draft / cashier's cheque or certified cheque drawn in favour of "The Managing Director, Andhra Pradesh Technology Services Ltd." and payable at Hyderabad (India).

E.2. Pre-qualification bid:

It shall include the following information about the firm and/or its proposal.

1. General information on the bidder's company in Form P-1
2. Turn over details in relevant field in Form P-2A for Schedule-I
3. Turn over details of the product (Brand) offered in Form P-2B for Schedule- I
4. List of major customers in support of turnover in Form P-3
5. Details of service centers in AP in Form P-4
6. Certificates like ISO, Microsoft etc. in Form P-5 (Bidder's format)
7. Manufacturer's authorization to participate in bidding process apart from such other documents like authorization certificate for dealing in the products for which bid is submitted.(However this will not apply to Manufacturers) in Form P-6 (Bidder's format)

E.3. Technical Bid:

1. Deviation(s) to technical specification, if any in Form T-1
2. Check list in Form T-2
3. Detailed technical documentation, reference to various industry standards to which the products/ services included in vendor's offer conform, and literature concerning the proposed solution in Form T-3 (Bidder's format)
4. Other information, if any required in the bid document in Form T-4 (Bidder's format)

E.4. Financial bid:

The financial bid should provide cost calculations corresponding to unit price of each item of the schedule-I in Form F-1.

E.5. Pre-bid Meeting:

All those bidders who had purchased bid document can participate in the meeting to seek clarifications on the bid, if any.

Section F

Bid evaluation procedure:

Bids would be evaluated for each Schedule separately. Bidders should offer prices for all the items of Schedule and for the full quantity of an item of Schedule failing which such bid will not be considered. Technical bid documentation should be in the prescribed format. If a vendor has any comment to offer about the procedural aspects of this tender, it should be intimated to APTS during the pre-bid meeting. In case the schedule or procedure of tender processing is revised, the same shall be communicated by e-mail/Fax to all vendors who have paid the tender document fee.

F.1. Opening of bids:

Immediately after the closing time, the APTS contact person shall open the pre-qualification and Technical bids, and list them for further evaluation. The Financial bids of only those bidders who qualify in the pre-qualification bid and Technical bid will be opened.

F.2. Pre-qualification bid documentation:

The Pre-qualification bid documentation shall be evaluated in two sub-steps. Firstly, the documentation furnished by the vendor shall be examined prima facie to see if the technical skill base and financial capacity and other vendor attributes claimed therein are consistent with the needs of this project. In the second step, APTS may ask vendor(s) for additional information, visit to vendors site and/or arrange discussions with their professional, technical faculties to verify claims made in Pre-qualification bid documentation.

F.3. Technical bid documentation:

Technical bid documentation shall be evaluated in two sub-steps. Firstly, the documentation furnished by the vendor shall be examined prima facie to see if the product /services offered, technical skill base and financial capacity and other vendor attributes claimed therein are consistent with the needs of this project. In the second step, APTS may ask vendor(s) for additional information, visit to vendors site and/or arrange discussions with their professional, technical faculties to verify claims made in technical bid documentation.

F.4. Award Criterion:

Final choice of firm to execute the project shall be made on the basis of conformity to technical specifications, appropriateness of the product offered, capability of bidder to execute and service the project and appropriateness of financial offer from the point of view of cost-effectiveness over the entire maintenance period for the product/services.