

**PROCEEDINGS OF THE DIRECTOR OF PUBLIC INSTRUCTION,  
THIRUVANANTHAPURAM**

**Sub:- IT@School Project- Guidelines for procurement of Computers and Hardware for schools using MP/MLA/LSG funds – Orders revised-Reg.**

- Ref:- 1. G.O.(Rt.) 5120/2007/G.Edn. dated 9/11/2007  
 2. Minutes of Technical Committee meeting of IT@School Project held on 5/1/2011  
 3. Order No.NEP3/80281/07/DPI dated 08.03.2010.

**ORDER NO.NEP3/80281/02/DPI DATED 23.02.2011**

Based on the recommendations of the Technical Committee constituted vide reference 1<sup>st</sup> cited, in its meeting held on 5<sup>th</sup> January 2011 vide reference 2<sup>nd</sup> cited, the following orders are revised in connection to the Order mentioned as 3<sup>rd</sup> cited with respect to the minimum specification, maximum price and service conditions for the procurement of computers and hardware for schools using MP/MLA/LSG funds.

<b>Minimum Specifications</b>		
<b>I</b>	<b>Laptop</b>	<b>All Inclusive Price (Rs.)</b>
	Processor 2.0 GHz, with 45 nm technology, L2 cache 1 MB Chip set Intel/ATI/N-Vidia /SIS/AMD, Mother Board OEM Memory 2 GB or more DDRIII RAM -800 MHz (Zion,Umax, Kingston, Transcend, Corsair, Micron, Hynix, Samsung) OEMS can use memory of their choice, Hard Disk 160 GB, SATA, 5400 RPM, Display- 14" ,Active Matrix wide Screen without dead cells, 1200x800 WXGA,Graphics Intel-GMA / ATI-Radeon XPRESS / N-Vidia Geforce Optical Drive Integrated DVD Writer 8X,Integrated wireless. 802.11 b/g/n, and 10/100 Fast Ethernet,Speaker Integrated Stereo speaker. Interface-I/O Ports RJ 45, 3x USB2.0, VGA port for External Monitor, Mic In, Speaker/ Headphone Out, AC Adaptor Power 230V, 50 Hz AC Supply with rechargeable 6 Cell LI-ION Battery Pack, Battery Back up time 2 hours minimum. Additional items: Optical Scroll Mouse (USB),Carry Case, Warranty 3 Years On site Comprehensive including <b>battery and power adapter.</b>	19,750/-
<b>II</b>	<b>Netbook</b>	
	CPU 1.6-GHz Intel Atom N455, Operating System IT School Edu Ubuntu 10.04, RAM 1GB DDR3, Hard Drive Size 160 GB, Hard Drive Speed 5,400rpm, Hard Drive Type SATA , Display Size 10.1 Native Resolution 1024x600, Graphics Card Integrated Video Memory	13,000/-

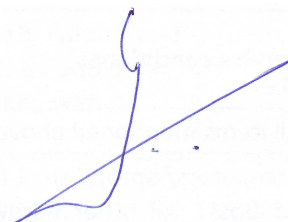
	Shared, Wi-Fi 802.11b/g/n, Ports (excluding USB) Ethernet; Headphone; Kensington Lock; Microphone; VGA, USB Ports 3 Card Slots SD memory reader, Battery Backup time 6 hours minimum during normal operation, Warranty/Support 3 Years Comprehensive On site	
<b>III</b>	<b>Multimedia Projector</b>	
	Resolution SVGA (800x600), Brightness 2000 ANSI Lumens Aspect Ratio 4:3 ,Input Audio,VGA,S-Video, Composite A/V input to connect TV output, USB- for full function remote Output Audio out, Video out (Splitter attachment not acceptable)Remote Full Function Screen 6' x 4' Screen with Tripod Stand Accessories Audio, VGA and USB cables Warranty 3 Years Comprehensive On Site (Warranty for lamp - 90 days) with screen and stand.	24,000/-
<b>IV</b>	<b>Handy Cam</b>	
	Maximum Still Image Resolution (Photo Mode), Storage Media HDD (120GB) or Flash Card (64 GB), Optical sensor 1/6", CCD, colour Analog Video format PAL, Digital Video Format MPEG-2, Digital Zoom 2000 x (min), Optical Zoom 40 x, Zoom Adjustment Motorized drive OS support IT School Edu Ubuntu 10.04 , Battery Li-ion Rechargeable Power Adapter External, Connector type USB, Composite Video/Audio output, DC power input with necessary cables, drivers, utilities. Focus automatic, Stand Tripod, Carry Case To be Provided Warranty 3 Years Comprehensive On Site	23,000/-
<b>V</b>	<b>Dot Matrix Printer</b>	
	136 Columns, 24 Pin, 300 cps @ 10 cpi, Input buffer 64 KB, Parallel and USB interface, OS compatibility IT School Edu Ubuntu 10.04 USB data cable & Power cable suitable for 5/6 A, 3 pin Indian Socket, with Drivers for IT School Edu Ubuntu 10.04	9,000
<b>VI</b>	<b>Mono Laser Printer</b>	
	14 ppm, Print 600x600 dpi , A4 size, USB 2.0 interface, tray capacity 150 sheets, monthly duty cycle 5000 , USB data cable & power cables suitable for 5/6 A, 3 pin Indian Sockets, with drivers for IT @school Edu Ubuntu 10.04. Full toner (to print minimum of 1500 pages) must be provided along with the printer and facility to be provided to use refilled toner.	5,900
<b>VII</b>	<b>Flat Bed Scanner</b>	
	Optical Scanning Resolution 1200x1200 dpi, USB interface, 48 bit color, A4 size, USB 2.0 data cable & power cables suitable for 5/6 A, 3 pin Indian Sockets, Printer setup poster, reference guide and installation guide in CD, drivers for IT school Edu Ubuntu 10.04	4,000
<b>VIII</b>	<b>UPS</b>	
	Input:- Phase Single. Voltage – 140V – 270V. Frequency 50 Hz +/- 5% Output:- 600 VA 360 W Quasi Sine Wave, 230V+/-5%,4-8 ms transfer time, efficiency > 80%, change over to inverter-<140V & > 270 V, Output sockets – 5 Pin, 5 Amps – 3 Nos (suitable for Indian Power mains). Environment – 0-45 degree C, RH – 90%. 15-20 minutes back	2,200

	up with one PC + one TFT monitor.	
<b>IX</b>	<b>Desktop PC*</b>	
	<p><b>Processor</b> –Intel Dual Core E5500 Processor 2.80 GHZ, Cache 2 MB L2 cache</p> <p><b>Chipset &amp; Mother Board</b> : Intel Chip set with Intel Original Mother Board</p> <p><b>Memory:</b>2 GB RAM expandable to 4 GB Make: Zion,Umax, Kingston, Transcend, Corsair, Micron, Hynix, Samsung) OEMS can use memory of their choice</p> <p><b>Hard Disk:</b> Min 250 GB, SATA Samsung, Seagate, Hitachi, Western Digital</p> <p><b>Optical Device:</b> DVD Writer SATA</p> <p><b>Monitor:</b> 18.5” Wide Screen</p> <p><b>Cabinet:</b> ATX/Mini ATX</p> <p><b>PS2/USB Key Board</b> : Normal,104 keys, PS2/USB</p> <p><b>Mouse:</b> PS2/USB Optical Scroll Mouse</p> <p><b>USB Ports:</b> 2 Nos front side, 4 Nos back side. Ethernet Integrated 10/100/1000, OS Ubuntu 10.4</p> <p>Warranty – 3 Years Comprehensive</p>	21,000
	* Laptops/ Netbooks are more preferred than Desktop PCs for distribution at schools owing to its huge advantages on space, power requirement, mobility etc.	
<b>X</b>	<b>Other accessories</b>	<b>As per DGS&amp;D rates</b>
<b>c.</b>	<b>Service conditions:</b>	
1	All items mentioned above will have 3 year onsite warranty	
2.	Computers/laptops shall be loaded with Free Software OS ( IT@School Edu-Ubuntu/ EduBoss). All other hardware should have their own drivers for above said drivers which shall be supplied along with the hardware	
3.	Any change in technical specifications, however minor it may be shall be informed to the directorate for obtaining its prior sanction before affecting the supply. However, supply of equipments with higher specifications at the quoted price shall be entertained.	
4.	The supplier shall demonstrate the performance of the computer systems to the satisfaction of School IT Co-ordinator (SITC) in charge of the school computer lab and HM/Principal.	
5	<p>The following shall be clearly marked on the equipments using labels or indelible ink in the presence of school staff:</p> <ul style="list-style-type: none"> <li>• The date of installation,</li> <li>• Period of warranty,</li> <li>• The details of service person</li> </ul>	
6	Supplier has to set up a call center/Telephone number to monitor, rectify and register all the calls from schools regarding hardware and software support arising after the supply.	

7	The response time for solving an issue with a Laptop / Netbook shall be a maximum of 2 working days and that of closing the issue shall be maximum 5 working days, failing to which, an amount of Rupees 100/- could be levied from the Vendor as Liquidated damages per day. In case of major replacement, the Vendor shall agree to resolve the issue and return the equipment to the individual within 20 working days.
8	The rates are inclusive of all applicable taxes.

IT@School Project had already entered in to an agreement for supply of desktop computers and accessories from M/s. Keltron that includes specific conditions for the establishment of infrastructure for service network. Hence it is suggested that priority may be given to M/s. Keltron at recommended rates base on above conditions. The toll free no. which M/s. Keltron has set up in this regard is 1800 425 9696 and the online registration service portal is <http://sc.Keltron.org> or available at [www.itschool.gov.in](http://www.itschool.gov.in). In case of purchase through Keltron, the payment shall be made within 30 days of supply and installation of items, delay in payment beyond this limit shall be a levy of 2% per month on the total value of work order. But the purchase can also be made through any other vendors satisfying the price, quality and service conditions mentioned above observing store purchase rules.

This is only an interim price and specifications are valid till revision.



**Director of Public Instruction**

To

All District Collectors  
State Project Director, SSA  
Director, DVHSE  
Director, DHSE  
Director, SIETMAT  
Director, SIET  
All Deputy Directors of Education, All DEOs

Copy to:

All MP's, MLA's and District Panchayats  
The Executive Director, IT@School Project  
All members of the Technical Committee