

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

**Sub:- General Education Department - Guidelines for procurement of ICT equipments for schools and institutions under General Education Department- Orders extended-Reg.**

- Ref:-
1. G.O.(Rt.) No. 2777/2016/G.Edn dated 26.08.2016
  2. DPI Order No.NEP3/10192/2015/DPI dated 21.11.2016
  3. G.O(Rt.) No.460/2017/G.Edn dated 20.02.2017
  4. Minutes of Technical Committee meeting of IT@School Project held on 30.05.2017

**ORDER NO.NEP3/...../DPI DATED 30.05.2017**

Government of Kerala vide G.O. read as first cited has constituted a Technical Committee under IT@School Project to review and fix the minimum specification, maximum price & service conditions for procurement of ICT equipments for schools and institutions under General Education Department. Based on the recommendations of the Technical Committee thus constituted, KELTRON has undertaken the national level tendering process of ICT equipments. Vide reference 2<sup>nd</sup> cited, Director of Public Instruction had issued guidelines for procurement of Desktops, Laptops and Projectors for schools. Govt vide GO 3<sup>rd</sup> cited has issued orders for ICT procurement for all educational institutions and departments, in accordance to reference 2<sup>nd</sup> cited. The Technical Committee in its meeting held on 30.05.2017 has finalised the price, specifications and service conditions of 3 KVA UPS, Whiteboard, Projector Mounting Kit and USB Speakers, based on which the following guidelines are issued. These guidelines are applicable to all purchases to schools under various schemes by using all Government funds, MP/MLA funds, LSGI funds etc. **This guideline is in addition to the earlier guideline vide reference 2<sup>nd</sup>, which details the procurement conditions of Desktops, Laptops and Multimedia Projectors.**

<b>1. 3KVA UPS With Galvanic Isolation (built in isolation transformer)</b> (Maximum price-Rs.63,000/- inclusive of all taxes)	
<b>(Minimum Specification)</b>	
<b>Input</b>	
Phase	Single
Frequency	50Hz +/- 5%
Voltage	160 V - 260 V AC
<b>OUTPUT</b>	
Phase	Single
Wattage	2100W
AC Voltage	220 V +/- 5%
KW Rating	2400W ( 0.80 times of KVA rating)
Waveform	Sine Wave
Frequency	50Hz +/- 1 Hz
Transfer time, if applicable	< 6 ms
Power Factor	0.8 Lagging (greater preferable)
Efficiency	85%
APFC	Needed
Change over to inverter	<160 V and >260 V
<b>Protection:</b>	
Output	Over Voltage, Overload(cut off at 110%), Short Circuit/RF, Spike/surge
Battery	Under voltage; Cut off at 1.8V/cell
Battery Rack	Steel-powder coated
Visual Indication	Mains on, UPS on, Fault & Overload, Battery low
Audio Indication	Low battery / overload indication - Buzzer Change over to Inverter-Buzzer
Battery Charging	6 to 8 hours
Output Control	With On/Off Switch
Environment:	0-45% C, RH 90%
Battery:	SMF (4800 VAH) , Maximum number of batteries - 8 Nos
Battery make:	Rocket/Panasonic/Amron/Exide/Amara Raja/Quanta
Required	Operating manual and warranty card
Approvals	Type Approval test certificate of National Agencies ERTL, ETDC or SAMEER or BIS certification for the same model for all specified parameters
Warranty	5 Years Comprehensive On-Site including Battery

<b>2. Whiteboard</b> (Maximum price- Rs.7900/- inclusive of all taxes)	
Type	Non Magnetic White Writing Board, Ceramic coated non glossy semi mat surface used for both projection & writing,
Size	6 feet x 4 feet
Thickness	11 mm or above with aluminum frame and nylon corners.
Warranty	5 Years Comprehensive On-Site

<b>3. Projector Mounting Kit</b> (Maximum price- Rs.4900/- inclusive of all taxes)	
Ceiling Mount Kit for projector:	Universal Type (Compatible with all projector brands & models), made on aluminum alloy, powder coated, 60 cms length, extendable upto 1 meter. Shall be able to fix on any type of roofing.
HDMI Cable	(length-15 meters) , Version 1.3 or higher
VGA Cable	(length 15 meters)
Power Cable	(length-15 meters) With 5 amp plug suitable for connecting projector
Casing & Cap for laying power cable & HDMI cable.	25 mm, BIS approved.
Warranty	5 Years Comprehensive On-Site

<b>4. USB Speaker</b> (Maximum price- Rs.770/- inclusive of all taxes)	
Type	2.0 Multi Media Stereo Speaker
Power	USB Powered
Connectivity	Hardwired 3.5 mm connection (for audio).
Controls :	Power and volume controls.
Warranty:	5 years (Carry-in).

**Details of Equipments required in a Hi-Tech Classroom/ Smart Classroom**


Sl.No	Equipment
1	Laptop
2	Multimedia Projector mounted in the ceiling
3	Whiteboard
4	USB Speaker
5	Broadband Internet connection with networking

<b>4</b>	<b>Other conditions</b>
4.1	If the procurement process follows the purchase conditions followed by IT@School from M/s Keltron that include 50% advance, Balance 50% within one month of successful installation and commissioning and acceptance at a common point of distribution, then the maximum price (All Inclusive) for 3KVA UPS , Whiteboard, Projector Mounting Kit & USB Speaker shall be 59,400, Rs.7,275, Rs.4,400 & Rs.706 respectively, provided minimum Order Quantity of the corresponding item would be 100. All other terms and conditions remains the same.
4.2	The guidelines for the procurement of other ICT equipments would be issued subsequently. In order to ensure that schools procure only good quality products of high utility at reasonable cost, for procurement of any other ICT equipment priced above Rs.15,000/- for the schools, the concerned authorities should get the clearance from Directorate with respect to the need, specification, price and service conditions until guidelines are published for those items.
<b>5</b>	<b>Service conditions:</b>
5.1	All items mentioned above will have 5 year on-site warranty for all components. No additional charges for installation and transportation should be levied from the customer, under any circumstances.
5.2	Any ICT equipments other than those mentioned in this guidelines and the earlier version dated 21.11.2016, should have 5 year on-site warranty.
5.3	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 provided the same substantiated by Test reports.
5.4	The supplier shall demonstrate the performance of the equipments to the satisfaction of School IT Co-ordinator (SITC/HITC) in charge of the school computer lab and HM/Principal.
5.5	The following shall be clearly marked on the equipments using labels or indelible ink in the presence of school staff: <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>
5.6	Supplier has to set up a web based portal along with a call center/Telephone number to register, monitor and rectify all the calls from schools regarding hardware and software support arising after the supply.
5.7	The response time for attending an issue with the above hardware equipments 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, subject to a maximum value equal to 10% of the product value. In case of off-site maintenance, stand by unit shall be positioned at the site.
5.8	The rates are inclusive of all applicable taxes.

M/s KELTRON, a state owned Public Sector Undertaking, has been identified as the Total Solution Provider for all ICT hardware procurements for schools in the State. On the basis of this, IT@School Project under General Education Department, Govt. of Kerala, has already entered in to an agreement with M/s. KELTRON for supply of these

equipments through a national tendering process. This agreement includes specific conditions for the establishment of infrastructure for service network. The price advantage received through this bulk procurement process is thus available for all procurements for schools. Hence it is suggested that preference may be given for procurement through M/s. KELTRON at recommended rates based on the above conditions. But the purchase can also be made through any other vendors satisfying the price, quality and service conditions mentioned above observing store purchase rules and in such cases the procuring authority shall ensure the compliance in full in all respects.

This price and specifications and are valid till revision.

  
for Director of Public Instruction

To

All Directors under General Education Department  
(SSA, SCERT, HSE, VHSE, SIET, SIEMAT, KSLMA, KSMSK)  
The Director of Panchayats & Director of Urban Affairs  
All District Collectors  
All Deputy Directors of Education, All DEOs

Copy to:

Private Secretary to Minister for Education, Govt of Kerala  
Secretary, General Education Department (with c/l)  
Principal Secretary, Local Self Government Department ( with c/l)  
Secretary, Planning Department (with c/l)  
Secretary, Finance Department (with c/l)  
Secretary, Information Technology Department (with c/l)  
All MPs, MLAs and Secretaries of District Panchayats  
The Executive Director, IT@School Project  
The Managing Director, KELTRON.