

**Department of Physics**  
Indian Institute of Engineering Science & Technology, Shibpur  
Howrah – 711103

No. 03/IEST/Phy/AB/CPDA/Lab.Equip/2016-17

Dated: 15.02.2017

**Advt.No.Web/PHY/IEST/16-17/90**  
**Notice Inviting Quotation**

Sealed quotations are invited for supply of the following items/equipment or to carry out works listed below as per mentioned specifications. The relevant bidding document can be downloaded from the website. The document can be also obtained from the Department of Physics (contact: Dr. Abhijit Bisoi) between 12.00 a.m. and 4.00 p.m. on all working days. The quotation should include all kinds of taxes/duties and delivery charges of the items to the Office of the Department of Physics, IEST, Shibpur, Howrah-03. Last date of submission of sealed quotation is **7 working days from the date of publication** in the Website of the Institute and tenders will be opened on the next working day at 12 noon.

Dr. Abhijit Bisoi  
Physics  
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**List of Items:**

**1. Up-grader Software for in-field Firmware up-gradation.**

- Graphical Application for firmware upgrade on Front-end boards, bridges.
- Supported Boards: PCI Controller, Dual Digital MCA with the following specification  
*Specification of MCA*

<b>Analog Input</b>	<p>Input Features</p> <ul style="list-style-type: none"> <li>-BNC connector</li> <li>-Single-ended, DC coupled</li> <li>-Impedance: 1 kΩ</li> <li>-Positive and negative signals accepted</li> </ul>	<ul style="list-style-type: none"> <li>-Programmable 4-step analog coarse gain corresponding to 0.3Vpp-1Vpp-3Vpp-10Vpp ranges</li> <li>-Bandwidth: DC to 5 MHz</li> <li>-Programmable DC offset adjustment on each input in the full scale range</li> </ul> <p>Number of Inputs 2</p>
<b>ADC</b>	Resolution: 14 bits	Sampling rate: 100 MS/s simultaneously on each channel
<b>Trigger Modes</b>	<ul style="list-style-type: none"> <li>-Uncorrelated: each channel operates independently (based on channel self-trigger)</li> <li>-Correlated: coincidence/anticoincidence among channels and/or an external trigger (TRG-IN)</li> <li>-External: channels are triggered by external trigger only (TRG-IN)</li> </ul>	
<b>Communication interface</b>	<p><b>Optical Link</b></p> <p>Up to 80 MB/s transfer rate Daisy chain capability: it is possible to connect up to 8 or 32 ADC modules to a single Optical Link Controller (A2818 or A3818 respectively)</p>	<p><b>USB</b></p> <p>USB 2.0 compliant</p> <p>Up to 30 MB/s transfer rate</p>
<b>Power Requirements</b>	Suitable Power Adapter to be included in the offer	

- Supported Operating Systems: Windows (32-64 bit), Linux (32-64 bit)
- Language: C, LabVIEW (Windows only)
- Supported Comm. Interface: USB, Optical Link, VME
- Should mention the Additional Software Requirement (should be free downloadable) - if any. No extra cost will be paid for additional software.