

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

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

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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. S Sarkar) 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. Sukhendusekhar Sarkar
Physics
IEST, Shibpur, Howrah – 03.

List of Items:

1. Driver, Libraries (for Windows and Linux) for Dual channel Independent 16k Digital MCA

- Should have Driver for Windows (32 and 64 bit) and Linux
- Set of functions for the control and the use of Digital MCA as specified below

Specifications of MCA

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

- Should be available for C/C++ environment (Windows, Linux) and Lab VIEW environment (Windows)
- DPP firmware (PHA) managed
- Library of functions for Digitizers high level management

