

**Transportation Engineering Laboratory
Department of Civil Engineering
IIT Delhi, Hauz Khas, New Delhi - 110 016**

14th November 2014

Sealed quotations are invited for the purchase of the following item by Transportation Engineering Laboratory, Department of Civil Engineering, IIT Delhi confirming to the technical specifications given below:

Item: Data logger (8 channel) - For strain, load, temperature and displacement monitoring

Quantity: One

Important Technical Specifications:

S. No	Specifications	Comments/ compliance
CONTROLLER		
1	Compact , stand alone	
2	I/O Slots : 3 slots capacity	
3	Internal storage capacity : 32 GB (max), 8 GB SD Card included	
4	Required: Data retrieval via logger Ethernet port or SD Card Recommended: directly with a standard SD Card reader	
5	CPU: Freescale MPC5200, 400 MHz, 32-bit, DDRAM 128 MB	
6	Status LEDs- On front panel Attention, Read/Write, Power.	
7	Power Requirements: Input voltage 9-36 VDC. 120/240 VAC universal power supply	
STRAIN I/P CARD		
8	No of Channels: 8 (Isolated/differential)	
9	ADC resolution 18 bits	
10	Sampling rate 1 KS/s per channel (8 kS/s max aggregate)	
11	Input range $\pm 10V$	
12	FIFO size 512 samples	
13	Bridge configurations Full-Bridge/Half-Bridge (with ext. terminal panel), Quarter-Bridge (with ext. terminal panel)	

14	Bridge resistance 120Ω, 350Ω, 1000Ω, and custom	
15	Input impedance 10MΩ in parallel with 50pF	
16	Gains 1,2,4,8,10,20,40,80,100,200,400,800	
17	Temperature drift <ul style="list-style-type: none"> • Offset drift : 5μV/°C typ • Gain drift; 30ppm/C° @ G=1, 45ppm/C° @ G=800 	
19	Shunt calibration :Onboard (software selectable) - 256 steps from 5K to 205K; External	
20	Isolation 350 Vrms, Overvoltage protection -40V.	
21	Environmental <p>Power consumption 3.5 Watt max</p> <p>Operating temp.: -40°C to +85°C</p> <p>Operating humidity 0 - 95%, non-condensing</p> <p>Vibration: 5g (IEC 60068-2-64)</p> <p>Shock : (IEC 60068-2-27)</p> <p>50 g, 3 ms half sine, 18 shocks at 6 orientations;</p> <p>30 g, 11 ms half sine, 18 shocks at 6 orientations</p> <p>Altitude 70,000 feet, maximum</p>	

Important Terms and Conditions:

- All Documents and Manuals should be in English language.
- Sealed **technical** and **commercial** quotations should be submitted in separate envelopes; **else they would be rejected,**
- Quotations should be directly from the original developer or authorized sales agent
- The cost should include delivery (CIF Delhi), installation and training at IIT Delhi,
- If the items are proprietary product of the company, a proprietary certificate stating the same may be provided,
- If the bidder is not a manufacturer, authorization from the manufacturer needs to be enclosed, The supplier must submit proof (including address, telephone number and email ID) of prior installations at other central govt. funded institutions and/or R&D labs. The bidder should have supplied/installed same items in at least three or more such organizations. Any negative comments from any one referred would disqualify the bid. IIT Delhi reserves the right to interact/ visit with the referred customer as per its convenience.
- The validity of the offer should be for 4 months,
- Delivery period should be mentioned,
- Details on installation, commissioning and training must be specified,
- Preferred method of payment will be through Letter of Credit (LC) or RTGS or Electronic Fund Transfer (EFT) / Wire Transfer (WT) ,
- The details of recipient of payment LC / EFT/WT should be given clearly,
- **Discount/Rebates:** A special discount/rebate wherever admissible keeping in view that supplies are being made for educational and research purpose in respect of public institution of national importance may be indicated.

- **Rejection:**
 - (a) Quotations not conforming to the set procedure as above would be rejected.
 - (b) Incomplete and conditional tenders would be summarily rejected.
 - (c) IIT Delhi reserves the rights of acceptance or rejection of any or all quotations without assigning any reason thereof.

- The last date for receipt of the quotations is **28th November 2014, 4 pm**

Sealed quotations shall be submitted to:

Dr. K. Ramachandra Rao
Associate Professor and Officer In-charge
Transportation Engineering Laboratory
Department of Civil Engineering
Indian Institute of Technology Delhi
Hauz Khas, New Delhi – 110016, India