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Page no. 1

Department of Civil Engineering

Indian Institute of Technology, Madras

I.I.T.P.O., MADRAS - 600 036.

Ref. No. CIE-ARUM 2014 ASIX SDAS SPLX

Date : 05.05.2014


Dear Sirs,

DUE DATE : 16.05.2014

1. Quotations are invited in duplicate for the various items shown below / overleaf / enclosed list.
2. The Quotations duly sealed and superscribed on the envelope with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above.
3. The Quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
4. If the item is under DGS & D Rate contract. Rate Contract Number and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price. If so, please send copy of the R.C. (Please note that we are not Direct Demanding Officers)
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable samples if called for, should be submitted free of charges, and collected back at the supplier's expenses.
6. Local Firms : Quotations should be for free delivery to this Institute. If Quotations are for Ex-Godown, delivery charges should be indicated separately.
7. Firms Outside Chennai : Quotations should be for F.O.R. Chennai. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If-Ex-Godown, packing, forwarding and freight charges must be indicated.
8. The rate of Sales / General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for Sales / General Taxes will be admitted at any stage and on any ground whatsoever. The taxes leviable should take into consideration that we are entitled to have Concessional Sales Tax applicable to Non-Government Educational Institutions run with no profit motive for which a concession. Sales Tax Certificates will be issued at the time of final settlement of the bill.
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. Payment : Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later.

✓ Details as per enclosed list.

Dr. Arun Menon
Dept. of Civil Engg.
IIT MADRAS
CHENNAI - 600036

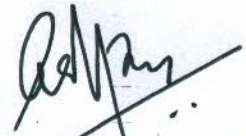

Yours faithfully
For HEAD OF THE DEPT.

*Strike out whichever is not applicable.

Structural Engineering Laboratory
Department of Civil Engineering, IIT Madras

Specifications for Seismic Data Acquisition System

S. No.	Specification	Description	Availability	
			Yes	No
1.	Channels	6 channels		
2.	Dynamic Range	132-135 dB wideband RMS typical Typical band-limited 136 dB		
3.	Format	32-bit integer, Level 2 compressed 1-second packets		
4.	Input Range	4V P-P at gain=1		
5.	Gain	Selectable per channel: 1,30		
6.	Filtering	Linear or Minimum Phase FIR		
7.	Sample Rate	200, 100, 50, 40, 20, 10, 1		
8.	Time Base	Precision TCX, locked to GPS. No adjustment		
9.	DSP/CPU	24 bit A/S with DSP		
10.	Telemetry	Full Duplex, efficient positive acknowledgement with error control, UDP or TCP IP over Ethernet. Burst or continuous. Operates with major application software.		
11.	Temperature	Fully specified -20 to +50C Operative -40 to +70C		
12.	Sensor Control	Calibrate step, sine, or random. Recenter, on-command or auto		
13.	Operational Data	Temp, DC voltage, GPS status, Sensor boom position (6 chan)		
14.	Memory	32 Mb RAM standard		
15.	Network	Dual Ethernet (10 BT & 10/100BT) Full IP Protocol Stack (Linux)		
16.	Serial Ports	1 console ports upto 115kbaud		
17.	Media	Dual USB upto 32G total, failover.		
18.	Wireless	IrDA interface supported.		
19.	Power	<0.6 W avg. 12VDC 3 channel <0.8 W avg. 12VDC 6-channel Add 1.2 W for continuous operation. Other dynamic dependencies.		
20.	Physical	- Sealed metal cover, Requirement of Rubber end caps, externally visible status and fault indicators. - Size not more than 45 x 12 x 15 cms - Not heavier than 5 Kgs.		


PROJECT CO-ORDINATOR

Structural Engineering Laboratory

Department of Civil Engineering, IIT Madras

Specifications for Short period field seismometer

S.No	Specification	Description	Availability	
			Yes	No
1.	Type of seismometer	Moving coil type velocity transducer		
2.	Adaptability	Horizontal or vertical by mass centering adjustment		
3.	Natural period	1 second nominal; factory (adjustable from 0.5 seconds to 2 seconds)		
4.	Weight of mass	N1.5kg		
5.	Calibration coil	Standard		
6.	Mass travel	± 1 mm		
7.	External resistance for 70% of critical damping:	Approx. equal to coil resistance		
8.	Calibration coil motor constant	0.4 newtons per ampere nominal		
9.	Calibration coil resistance	100 ohm		
10.	Physical characteristics Housing Operating Temperature Size Weight	Watertight case -40° to 70° 300mm x 140 mm diameter Approx. 5.0 kg		
11.	Additional features	Adjustable leveling feet Bulls eye level		

12. Transducer Coil Options:

Coil Resistance ohm (minimum)	Approximate Generator Constant V(m/s)	Approximate CDR at 1 second	Availability	
			Yes	No
50	33	60		
100	55	165		
500	104	580		
2000	218	261		
5000 (std.)	345	6530		


PROJECT CO-ORDINATOR