

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

MATERIALS MANAGEMENT DIVISION

Powai, Mumbai - 400076

Technical Specification for Broadband Seismograph

PR No. 1000027100 Rfx No. 6100001210

A complete broadband seismograph which comprises a broadband 3-component seismometer (non-compact), 24-bit 3-Channel digitizer with essential accessories.

Number of seismographs: 01

Seismometer (1 x 1)

Topology	Feedback	Frequency response	Sensitivity	Noise	Power
Broadband tri-axial	Force-balance	120 s-50 Hz	≥ 1000 V/m/s	Minimum noise level	<1W at 12V
seismometer (non-compact)				(from 100 s-1Hz)	
An automatic mass recentring					
capability					

DAS: 24-bit 3-Channel Digitizer (1 x 1)

No. of Channel	Sampling rate	ADC resolution	RAM	Dynamic Range	Data Acquisition Mode	Storage Type	Recording format	GPS	Power	Indicator LED
3-channels	User-selectable (200,100,50,20, 10)	24bit	At least 128 Mb	≥ 140 dB @ 100 sps	Continuous	Internal plus removable card > 8Gb	Mini-seed	GNSS	9 -24 VDC	System Status, Power, GPS and Sensor



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Essential Accessories

Seismometer cable	Seismometer Cover	Carrying Case	GPS	DAS Power cable	Storage	Ethernet
10 meter long -01	Thermal Insulation	Fiber /Plastic	20 metre long cable with	2 meter01 no.	32 GB SD Card	2 meter
no.	cover – 01 no.	Material-o1no.	GNSS — o1 no.		02 no.	cable –1 no.

Warranty is one year from the date of installation and commissioning.

Note: While calibrating during installation process and during transportation legs of the seismometer should not come out then it is very difficult to put it back to the original position.