

To:

M/s.

Fax No: \_\_\_\_\_

**Title: Quotation of Seismic Alarm Recorder Switches.**

We intend to purchase the items specified below:

Sr.	Item Code	Description	Model	Qty. (Nos.)
1	170C144	Seismic Alarm Recorder with metal casing [Detail specification is attached at <b>page-2-3</b> ]	SAR-713 Or equivalent	4

Kindly send us your best offer in accordance with the following General Conditions as stated below:

**General Conditions:**

- (a) **Submission of Quotation:** Quotation may be sent immediately through Fax or E-mail but Original Proforma Invoice along with detailed technical brochures / literature must reach us by mail before the last date mentioned below
- (b) **Last Date of Quotation:** **23-12-2019**
- (c) **Validity:** At least 90 days
- (d) **Price Basis:** Firm and Fix C&F Prices
- (e) **Payment Mode:**
- We accept payment through LC with condition that all domestic bank charges will be borne by us while all bank charges in beneficiary's country including all LC conformation (if desired by the supplier) charges will be borne by the beneficiary.
  - We accept Pre-payment only against unconditional & irrevocable Bank Guarantee through First Class bank.

**Note:**

- Quotation must be provided in RMB currency.
- Equivalent brands that can fulfill our requirements can be quoted too.
- Seismic Alarm Recorder must have following specifications:
  - Two digital outputs individually.
  - Support earthquake data file record function.
  - Adopt STA/LTA algorithm.
  - Automatic Zero offset.
  - Support NTP for time calibration and NTP backup server.
  - Support Host IP filter function.
  - Support DHCP function.
  - Support MB/TCP and MB/RTU server and up to 10 Hosts connection via MB/TCP.
  - Support MB/TCP client to connect to host PC automatically.
- Provide all related documents (user manual/ maintenance manual) and software.

**Specification of Seismic Alarm Recorder**

1. Provide two digital outputs individually.
2. Support earthquake data file record function.
3. Adopt STA/LTA algorithm.
4. Automatic Zero offset.
5. Support NTP for time calibration and NTP backup server.
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8. Support MB/TCP and MB/RTU server and up to 10 Hosts connection via MB/TCP.
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Type	Tri-axial MEMS
Range	$\pm 2g$ (X Y Axes), $+1g/-3g$ (Z Axis)
Frequency Response	0 ~ 40 Hz
Shock	500g/0.5 ms, 3000g/0.1ms
<b>Digitizer</b>	
ADC Resolution	12 bit
Digital Resolution	< 0.001 g
<b>Earthquake Gauge</b>	
Algorithm	STA/LTA
STA Setting Range	0.01 ~ 60 sec
LTA Setting Range	0.01 ~ 60 sec
Offset Period	0.01 ~ 655sec
Event Duration time	0.01 ~ 60 sec
<b>Earthquake File Record</b>	
Alarm Time Record Range	0.01 ~ 60 sec
Pre Time Record Range	0.01 ~ 10 sec
Post Time Record Range	0.01 ~ 10 sec
<b>Switch Set point</b>	
Digital Output Numbers	2
Setpoint Rang	2 ~ 1960 gal (cm/s <sup>2</sup> )
Contact Type	Normal Open
Contact Capacity	0,6 A DC
Hold On time	Same as event ,Duration Time
<b>Mod Bus Comm.</b>	
Modbus TCP	Most 10 Host Simultaneously
Modbus/RTU	Default 1 (settable) ; Format ;115200 ,N ,8,1
Modbus Function Code	Function Code 1,2,3,6,16

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Modbus variables Address	000 ~ 108
<b>LED Display</b>	
5 Digit 7 Segment LED Display	Display Module and Earthquake Information
System LED Indicator	Display Module Power and Comm. Status
<b>Power</b>	
Protection	Power reverse polarity protection
Frame Ground for ESD Protection	Yes
Required Supply Voltage	+ 10Vdc ~ + 30 Vdc (Non Regulated)
Power Consumption	3.5 W
<b>Mechanical</b>	
Dimension (W*H*D)	102mm *123mm*28mm
Weight	285(Without Power and Cable)
<b>Operating Environment</b>	
Operating Temp	-25 C ~ +75 C
Storage Temp	-40 C ~ +80
Relative Humadity	5 ~ 90% RH , non condensing

Note: - With all related documents (user manual/ maintenance manual) and software.