

**GOVERNMENT OF PAKISTAN  
Pakistan Meteorological Department  
Headquarters Office,  
Sector H-8/2, Islamabad-PAKISTAN**



**Bidding Documents**

for

SUPPLY OF SEISMIC EQUIPMENTS AND ACCESSORIES

**September - 2018**

**DIRECTOR GENERAL  
PAKISTAN METEOROLOGICAL DEPARTMENT, ISLAMABAD  
Islamic Republic of PAKISTAN**

+92-51-9250597

+92-51-9250344

## **Tender Notice**

Dealers of reputable firms are invited to submit quotations on FOR basis for supply of the following equipments with all accessories.

S. No	Items Name
1.	Seismometer (30-40 S or equivalent/ above)
2.	Digitizer
3.	Data Communication Module (Logger)
4.	Accessories (GPS, Cables, Display Software etc.)

### **Terms and Conditions:**

1. Separate Earnest money/ Bid Security @ 2% for each category in the shape of Bank Draft/Pay order in favour of D.G Met. Services must be submitted with the offer.
2. Incomplete or late received offer will not be considered.
3. Detail specifications can be obtained from websites: [www.ppra.org.pk](http://www.ppra.org.pk) or [www.pmd.gov.pk](http://www.pmd.gov.pk)
4. Right of the software for the updation.
5. Closing and Opening date schedule of the bid is October 11, 2018 at 1100 Hours PST and October 11, 2018 at 1130 Hours PST respectively.

**(Zahid Rafi)**  
**Director (Seismic)/ Project Director**  
Ph.00-92-51-9250597, Fax: 00-92-51-9250368

## **Terms & Conditions:**

- 1.** Separate Earnest money/ Bid Security @ 2% for each category in the shape of Bank Draft/Pay order in favour of D.G Met. Services must be submitted with the offer.
- 2.** Bidders must submit copies of their registration of Sales Tax and Income Tax.
- 3.** Manufacturer should have ISO Certification or equivalent.
- 4.** Manufacturer should have export license for Pakistan.
- 5.** Local bidder must have authorized letter from its foreign principal.
- 6.** Bidders should not be disqualified from any organization/department in last five years; legal documents can be asked by the purchaser if required.
- 7.** All bidders are advised to comply strictly with the document specifications/ terms & conditions and no deviation shall be allowed.
- 8.** All bidders are advised to submit their bids showing name(s) of category on the envelope(s).
- 9.** Technical proposals and financial proposals must be submitted separately. Only technical proposals of these items will be opened on October 11, 2018.
- 10.** The successful bidders will furnish performance guarantee in the shape of bank draft/ pay order @ 5% of his supply order in favour of D.G. Met. Services.
- 11.** The last date for the submission of tender is October 11, 2018 at 1100 Hours PST and will be opened on the same day at 1130 hours PST in the presence of bidders or their representatives.
- 12.** Goods as per specifications would be received within 90 days, after the issuance of supply order, failing which 5% penalty will be imposed and the supplier will be responsible for replacement of items, if found defective during inspection / warranty period.
- 13.** The quantity of the items can be increased/ decreased.
- 14.** Taxes will be deducted as per Government rules.
- 15.** The payment against supply of items will be made through crossed cheque (s) by the Department to the supplier after satisfactory supply of goods and technical report submitted by the Technical Committee.
- 16.** Upgradation of the software will be the responsibility of the supplier and no payment will be made to the supplier.

S NO.	<u>NAME OF THE EQUIPMENT</u>	<u>TECHNICAL SPECIFICATIONS</u>	<u>QUANTITY</u>
01	Seismometer (30-40 S or equivalent/ above)	<p><b>1.1 Sensor System:</b></p> <ul style="list-style-type: none"> <li>• Force Feedback velocity sensor Triaxial and UD sensors, 3 components sensors for all locations</li> <li>• 15-30m cable to digitizer</li> <li>• 1-100 Hz flat frequency response</li> <li>• 2*1000 V/m/s output sensitivity</li> </ul>	05
02	Digitizer	<p><b>2.1 Digitizer Specifications:</b></p> <ul style="list-style-type: none"> <li>• Channel 24 bit ADC (Primary)</li> <li>• 1 aux 24 –bit ADC (used for aux and calibration signals)</li> <li>• 8 environmental channel @low sample rate</li> <li>• 8GB flash memory or more, removable</li> <li>• LTA /STA Triggering</li> <li>• Dynamic range around 137 @ 40sps</li> <li>• Output rates available 1.1000 sps</li> <li>• GPS antenna with 40m cable</li> <li>• 3m RS- 232 output</li> <li>• Software</li> <li>• GSL firewire disk 160 GB with firewire and USB interface with cables</li> </ul>	05
03	Data Communication Module (Separate or in Built)	<p><b>3.1 DCM Specifications:</b></p> <ul style="list-style-type: none"> <li>• 3 Serial port</li> <li>• UDP/ TCP/ IP Ethernet port</li> <li>• USB host</li> <li>• 160 GB removable, hot swappable</li> <li>• IEEE 1394/USB Disk Unit</li> <li>• Web server</li> <li>• Linux OS</li> <li>• Retrieval function, data may be recovered by HTTP server ftp or recording unit via Ethernet and serial interface for telemetry and internal debug port</li> <li>• 3m power cable data</li> </ul>	05
04	Accessories	<ul style="list-style-type: none"> <li>• All the mandatory accessories to operate the full fledge system including cables, connectors, GPS antenna, GPS cable, Data cables, data acquisition and configuration software etc.</li> <li>• Data output (Seed, Miniseed, gcf, etc)</li> </ul>	

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