



**SUPPLEMENTAL/BID BULLETIN NO. 2**  
**For LBP-HOBAC-ITB-GS-20210105-01**

**PROJECT** : **Three (3) Units Earthquake Recording Instrument**  
**IMPLEMENTOR** : **Procurement Department**  
**DATE** : **July 9, 2021**

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This Supplemental/Bid Bulletin is issued to modify, amend and/or clarify certain items in the Bid Documents. This shall form an integral part of the Bid Documents.

Modifications, amendments and/or clarifications:

- 1) The bidder/s are encouraged to use the Bid Securing Declaration as Bid Security.
- 2) The Terms of Reference (Annex D), SCC Clause 2.2 of the Special Conditions of Contract (Section V), Technical Specifications (Section VII), Omnibus Sworn Statement (Form No. 6), and Checklist of Bidding Documents (Item Nos. 1, 4, 12, 13 & 17 of the Eligibility and Technical Components) have been revised. Please see attached revised Annexes D-1 to D-6 and specific sections of the Bidding Documents.
- 3) The deadline for the submission of electronic bids for the above project is re-scheduled on **July 16, 2021** at **10:00 A.M.** Submission of physical bids (hard copy) shall **not** be accepted.

  
**ALWIN I. REYES**  
Assistant Vice President  
Head, Procurement Department and  
HOBAC Secretariat

## Special Conditions of Contract

SCC Clause	
1	<p><b>Delivery and Documents –</b></p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p><i>For Goods supplied from abroad:</i> The delivery terms applicable to the Contract are DDP delivered in the address/es indicated in Section VI. Schedule of Requirements. In accordance with INCOTERMS.</p> <p><i>For Goods supplied from within the Philippines:</i> The delivery terms applicable to this Contract are delivered in the address/es indicated in Section VI. Schedule of Requirements. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative/s at the Project Site/s is/are indicated in Section VI. Schedule of Requirements.</p> <p><b>Incidental Services –</b></p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ol style="list-style-type: none"> <li>a. Performance or supervision of on-site assembly and/or start-up of the supplied Goods;</li> <li>b. Furnishing of tools required for assembly and/or maintenance of the supplied Goods;</li> <li>c. Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;</li> <li>d. Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and</li> <li>e. Training of the Procuring Entity’s personnel, at the Supplier’s plant and/or on-site, in assembly, start-up, operation,</li> </ol>

maintenance, and/or repair of the supplied Goods.

The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

#### **Spare Parts –**

The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- a. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and
- b. in the event of termination of production of the spare parts:
  - i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and
  - ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.

The spare parts and other components required are listed in **Section VI (Schedule of Requirements)** and the cost thereof are included in the contract price.

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period indicated in Section VI. Schedule of Requirements.

Spare parts or components shall be supplied as promptly as possible, but in any case, within months indicated in the Technical Specifications.

#### **Packaging**

The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size

and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.

The outer packaging must be clearly marked on at least four (4) sides as follows:

Name of the Procuring Entity  
 Name of the Supplier  
 Contract Description  
 Final Destination  
 Gross weight  
 Any special lifting instructions  
 Any special handling instructions  
 Any relevant HAZCHEM classifications

A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.

#### **Transportation –**

Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.

Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.

Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents

	<p>to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure. The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p> <p><b>Intellectual Property Rights –</b></p> <p>The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.</p>
2.2	<p>Payment shall be through direct credit to the winning bidder's deposit account with LANDBANK. The winning bidder is required to maintain a deposit account with LANDBANK's Cash Department or any of its Branches.</p> <p>The following documentary requirements for payment shall be submitted:</p> <ul style="list-style-type: none"> <li>• Sales Invoice/Billing Statement/Statement of Account.</li> <li>• Delivery Receipt with printed name and signature of LANDBANK employee who received the delivery and actual date of receipt of items.</li> <li>• Warranty Certificate specifying the period covered by the warranty.</li> </ul> <p><b>The Supplier shall be paid within sixty (60) calendar days after submission of sales invoice or claim and complete documentary requirements.</b></p>
4	Maintain the GCC Clause.

## Technical Specifications

Specification	Statement of Compliance
<p><b>Three (3) Units Earthquake Recording Instrument (ERI)</b></p> <ol style="list-style-type: none"> <li>1. Terms of Reference per attached Revised Annexes D-1 and D-6.</li> <li>2. The following documents shall be submitted in support of the compliance of the Bid to the technical specifications and other requirements: <ul style="list-style-type: none"> <li>• Brochures or other official documents coming from the manufacturer indicating the specifications of the offered brand/model.</li> <li>• Purchase Orders, contracts or equivalent documents covering a two-year period.</li> <li>• Certificate of Inspection issued by Facilities Management Department.</li> </ul> </li> </ol>	<p><b>Bidders must state below either "Comply" or "Not Comply" against each of the individual parameters of each Specification preferably stating the corresponding performance parameter of the product offered</b></p> <p>Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.</p> <p><b>Please state here either "Comply" or "Not Comply"</b></p>

- **Certificate of accreditation issued by Professional Regulation Commission (PRC) and Association of Structural Engineers of the Philippines (ASEP) as Structural Engineer.**
- **PRC License for Registered Electrical Engineer.**
- **Core Construction Safety and Health (COSH) Training Certificate for Safety Officer.**
- **National Competency (NC) II Technical Education and Skills Development Authority (TESDA) Certificate for Technicians.**

Non-submission of the above-mentioned documents/requirements may result in bidder's post-disqualification.

**Conforme:**

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Name of Bidder

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Signature over Printed Name of  
Authorized Representative

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Position

**Form No. 6**

**Omnibus Sworn Statement**

REPUBLIC OF THE PHILIPPINES)  
CITY/MUNICIPALITY OF \_\_\_\_\_) S.S.

**AFFIDAVIT**

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

**1. [Select one, delete the other:]**

*[If a sole proprietorship:]* I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

*[If a partnership, corporation, cooperative, or joint venture:]* I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder].

**2. [Select one, delete the other:]**

*[If a sole proprietorship:]* As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

*[If a partnership, corporation, cooperative, or joint venture:]* I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)].

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting.
4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct.
5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted.

**6. [Select one, delete the rest:]**

*[If a sole proprietorship:]* The owner or sole proprietor is not related to the following LANDBANK Officers, employees and consultants: 1) members of the Board of Directors; 2) President and CEO; 3) members of the Head Office Bids and Awards Committee (HOBAC); 4) members of the Technical Working Group, if applicable; 5) personnel of Procurement Department; 6) personnel of the implementing unit or the end-user unit; and 7) project consultants, if applicable, by consanguinity or affinity up to the third level degree;

*[If a partnership or cooperative:]* None of the officers and members of [Name of Bidder] is not related to the following LANDBANK Officers, employees and consultants: 1) members of the Board of Directors; 2) President and CEO; 3) members of the Head Office Bids and Awards Committee (HOBAC); 4) members of the Technical Working Group, if applicable; 5) personnel of Procurement Department; 6) personnel of the implementing unit or the end-user unit; and 7) project consultants, if applicable, by consanguinity or affinity up to the third level degree;



*[If a corporation or joint venture:]* None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is not related to the following LANDBANK Officers, employees and consultants: 1) members of the Board of Directors; 2) President and CEO; 3) members of the Head Office Bids and Awards Committee (HOBAC); 4) members of the Technical Working Group, if applicable; 5) personnel of Procurement Department; 6) personnel of the implementing unit or the end-user unit; and 7) project consultants, if applicable, by consanguinity or affinity up to the third level degree.

7. *[Name of Bidder]* has no unsatisfactory performance with its ongoing projects.
8. *[Name of Bidder]* complies with existing labor laws and standards.
9. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
  - a. Carefully examining all of the Bidding Documents;
  - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
  - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
  - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
10. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
11. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

**IN WITNESS WHEREOF**, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_, 21\_\_ at \_\_\_\_\_, Philippines.

*[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]*  
*[Insert signatory's legal capacity]*  
Affiant

**SUBSCRIBED AND SWORN** to before me this \_\_\_\_ day of \_\_\_\_\_, in \_\_\_\_\_, Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her *[insert type of government identification card used]*, with his/her photograph and signature appearing thereon, with no. \_\_\_\_\_ and his/her Community Tax Certificate No. \_\_\_\_\_ issued on \_\_\_\_ at \_\_\_\_\_.

Witness my hand and seal this \_\_\_\_ day of *[month]* *[year]*.

Notary Public

Doc. No. \_\_\_\_\_;  
Page No. \_\_\_\_\_;  
Book No. \_\_\_\_\_;  
S. of \_\_\_\_\_.

## Checklist of Bidding Documents for Procurement of Goods and Services

The documents for each component should be arranged as per this Checklist. Kindly provide guides or dividers with appropriate labels.

### Eligibility and Technical Components (PDF File)

- The Eligibility and Technical Component shall contain documents sequentially arranged as follows:

- Eligibility Documents – Class “A”

#### Legal Eligibility Documents

1. Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages); or all of the following:
  - Registration Certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives, or any proof of such registration as stated in the Bidding Documents;
  - Valid and current mayor's/business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or equivalent document for Exclusive Economic Zones or Areas.
  - In cases of recently expired Mayor's/Business permits, it shall be accepted together with the official receipt as proof that the bidder has applied for renewal within the period prescribed by the concerned local government unit: Provided, That the renewed permit shall be submitted as a post-qualification requirement in accordance with Section 34.2 of this IRR; and
  - Tax Clearance per Executive Order 398, Series of 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

#### Technical Eligibility Documents

2. Duly notarized Secretary's Certificate attesting that the signatory is the duly authorized representative of the prospective bidder, and granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the prospective bidder in the bidding, if the prospective bidder is a corporation, partnership, cooperative, or joint venture or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder. (sample form - Form No. 7).
3. Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be

bid, within the last five (5) years from the date of submission and receipt of bids. The statement shall include all information required in the sample form (Form No. 3).

4. **Statement of the prospective bidder identifying its Single Largest Completed Contract (SLCC) similar to the contract to be bid within the relevant period as provided in the Bidding Documents. The statement shall include all information required in the sample form (Form No. 4).**

Financial Eligibility Documents

5. The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission.
6. The prospective bidder's computation for its Net Financial Contracting Capacity (NFCC) following the sample form (Form No. 5), or in the case of Procurement of Goods, a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

○ **Eligibility Documents – Class "B"**

7. Duly signed valid joint venture agreement (JVA), in case the joint venture is already in existence. In the absence of a JVA, duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful shall be included in the bid. Failure to enter into a joint venture in the event of a contract award shall be ground for the forfeiture of the bid security. Each partner of the joint venture shall submit its legal eligibility documents. The submission of technical and financial eligibility documents by any of the joint venture partners constitutes compliance, provided, that the partner responsible to submit the NFCC shall likewise submit the statement of all its ongoing contracts and Audited Financial Statements.
8. For foreign bidders claiming by reason of their country's extension of reciprocal rights to Filipinos, Certification from the relevant government office of their country stating that Filipinos are allowed to participate in government procurement activities for the same item or product.
9. Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.

○ **Technical Documents**

10. Bid Security (if in the form of a Surety Bond, submit also a certification issued by the Insurance Commission).
11. Section VI – Schedule of Requirements with signature of bidder's authorized representative.
12. **Revised Section VII – Specifications with response on compliance and signature of bidder's authorized representative.**

**13. Duly notarized Revised Omnibus Sworn Statement (OSS) (sample form - Form No.6).**

- **Post-Qualification Documents – [The bidder may submit the following documents within five (5) calendar days after receipt of Notice of Post-Qualification]:**

14. Business Tax Returns per Revenue Regulations 3-2005 (BIR No.2550 Q) VAT or Percentage Tax Returns for the last two (2) quarters filed manually or through EFPS.

15. Latest Income Tax Return filed manually or through EFPS.

16. Original copy of Bid Security (if in the form of a Surety Bond, submit also a certification issued by the Insurance Commission).

**17. Original copy of duly notarized Revised Omnibus Sworn Statement (OSS) (sample form - Form No.6).**

**Financial Component (PDF File)**

- **The Financial Component shall contain the documents sequentially arranged as follows:**

1. Duly filled out Bid Form signed by the bidder's authorized representative (sample form - Form No.1).

2. Duly filled out Schedule of Prices signed by the bidder's authorized representative (sample form - Form No.2).

**TERMS OF REFERENCE****I. Project Description:**

One (1) lot – Supply, Delivery and Installation (SDI), with transfer of technology, testing and commissioning, of **THREE (3) UNITS EARTHQUAKE RECORDING INSTRUMENT (ERI)** for the LANDBANK Plaza building, including the provision of technical supervision, labor, materials, tools and equipment.

**II. Objectives:**

1. To serve as additional safety monitoring device for LANDBANK Plaza building.
2. To comply with the requirements of Office of the Building Official (OBO) – Manila prior to issuance of Certificate of Annual Building Inspection as mandated in the National Building Code Development Office (NCBDO) Memorandum Circular No. 1, series of 2015 of the Department of Public Works and Highways (DPWH).

**III. Project Details:****1. Equipment and Ancillary Device:**

Description	Quantity
Accelerograph with Accelerometer	3
16GB Memory Card	3
Time Server : Network Time Protocol (NTP) Server	1
12V DC Power Supply with Back-up battery (48 hours capacity)	3
Earthquake Monitoring Station – PC equipped with basic software and UPS	1
Alarm Announcement System	1
Ethernet and Cabling	1 lot
Alarm Cabling to BMS Room	1 lot
Cabinets and Conduits (as deemed necessary)	1 lot

**2. Equipment Standard Specifications:**

Must conform to the minimum standard specifications stated in the GUIDELINES AND IMPLEMENTING RULES ON EARTHQUAKE RECORDING INSTRUMENTATIONS FOR BUILDINGS as mandated by NCBDO Memorandum Circular 01, Series of 2015 of DPWH (copy attached)

- a. The following are the minimum specifications for Earthquake Recording Instrument (ERI) to be used for buildings:
  - a.1 Accelerograph
    - Seismic qualified as tested by recognized international testing laboratory
    - Stores seismic activity information as gathered by the attached accelerometer
    - Equipped with fault detection
    - Provides real-time alarm information (either audio, visual or both) during an earthquake event

- Equipped with internal battery back-up power to ensure continuous operation during power fluctuation
  - Where applicable, it may include:
    - Minimum design life: 10 years and should be demonstrated and certified to have a 40,000-hour (minimum) mean time between failures
    - Minimum of three components (vertical, longitudinal and transverse)
    - Natural Frequency: Above 50Hz
    - Damping: Approximately 60 – 70 percent critical
    - Sensitivity: 2g
    - Bandwidth: DC to 100Hz
    - Environment: IP67
- a.2 Recording
- Sampling Frequency: Minimum of 100 samples per second
  - Time: From at least 20 seconds before the ground shaking begins until 30 seconds after the last triggering level motion
  - RMS Noise: System noise shall be less than 40ug measured over 0-30Hz
  - Media: Memory Card
  - Continuous Recording: Capable of continuous recording
  - AD Converter: 16' bits
- a.3 Timing
- Interval: Half a second or less
  - Accuracy: Plus or minus 0.2 second per 100 seconds
  - Type: GPS or NTP server
- a.4 Triggering (As applicable)
- Method: Pendulum or other device using earthquake motion as an exciting force
  - Level: Accelerograph, 0.5 to 100 gals nominal velocitimeter: 5um/s to 1mm/s
  - Time: Full operation of accelerograph/Velocit in not over 0.1 second after activation
- a.5 Power
- Battery maintained by charger
- a.6 Communication
- Ethernet: 10 base-T or 100 base-TX
  - Protocol: TCP/IP FTP/SFTP
- b. Records. To maintain continuous recording of data, a media for recording must be used at all times
- c. Battery Inspection. The accelerograph shall be tested with any charge device disconnected from an electric power source

### 3. System Description:

- a. The system must be 100% compliant to the minimum requirements stated in National Structural Code of the Philippines (NSCP) particularly Section 105.2 and to Guidelines and Implementing Rules on Earthquake Recording Instrumentations for Buildings as mandated by NCBDO Memorandum Circular 01, series of 2015 of DPWH.
- b. The Accelerograph shall provide the following minimum data/features :
- Peak Ground Acceleration
  - Peak Ground Velocity
  - PHIVOLCS Earthquake Intensity Scale (PEIS) or Modified Mercalli Scale (MMS)

- Earthquake Sensitivity of 2g
- Continuous Recording
- Real-Time Alarms
- Automated upload of earthquake data to server
- Data for direct processing of Structural Software
- Time based on Global Positioning System (GPS) or Network Time Protocol (NTP)
- Instrument Design Life - 10 years (minimum)

**4. Scope of the Project:**

- a. Conduct survey/ocular inspection to verify actual site condition for the needed details required in the implementation of the project.
- b. Mobilization and Board-up/security of every work area for safety using ½"-thk of plywood (minimum thickness) covered with tarpaulin, if applicable.
- c. Installations:
  - c.1 Three (3) units ERI / Accelerographs per manufacturer's standard complete with cabinet/enclosure and mounting frames for XYZ Grid - one set each for the Basement, 17<sup>th</sup> and 34<sup>th</sup> Floors of the LANDBANK Plaza Building.
  - c.2 Dedicated Electrical Power Supply – Basement, 17<sup>th</sup> and 34<sup>th</sup> Floors. The winning contractor shall provide a dedicated power outlet to the specified location which will be tapped directly into panel board.
  - c.3 Ethernet and Alarm Cables including required standard conduits from Basement, 17<sup>th</sup> and 34<sup>th</sup> Floor to 3<sup>rd</sup> Floor BMS Room
- d. Marking and tagging of all installations
- e. Installation and set-up of Earthquake Recording Instrumentation (ERI) Station at BMS Room
- f. Complete ERI System interface to LANDBANK Plaza BMS
- g. Alarm Programming
- h. Comprehensive Testing
- i. Conduct on-site training/transfer of technology to authorized FMD Personnel/Technicians, including but not limited to the following:
  - i.1 System Operation
  - i.2 Data transmission
  - i.3 Instrument calibration
  - i.4 Alarm Programming
- j. Final Joint Inspection and Acceptance Testing of fully integrated "Earthquake Recording Instrumentation System"
- k. Demobilization.
- l. Full assistance in the processing/securing of Certificate of Installation of Earthquake Recording Instrumentation/Certificate of Annual Building Inspection from the Office of the Building Official – Manila for LANDBANK Plaza Building.
- m. To coordinate with DPWH Central Office or Data Center designated by DPWH for the Data Storage
- n. Demobilization.

**5. Warranty:**

Two (2) years **Warranty** on installed instruments and devices, workmanship and supplied materials

## 6. Support and Maintenance to be performed by the Supplier:

- Provide **Guarantee** that the system shall have a maintenance period of at least **ten (10) years** with a maximum service interval of **one (1) year** including calibration and testing to ensure that the triggered system of ERI are in proper operational efficiency.
- The supplied ERI's shall be equipped with fault detection and alarm system and be integrated together to function in unison that any failure of operation shall not hinder the progress of the entire building seismic monitoring system.
- The supplied ERI equipment obsolescence shall not hinder the proper continuous operation throughout the ten (10) year guaranteed duration.
- A service unit as temporary replacement to continue the collection of data must be supplied in the event when the supplier finds that any or all of the equipment must be removed from the building for repair.

## 7. Contract Period:

Sixty (60) calendar days upon receipt of Notice to Proceed (NTP).

## 8. Submittals:

Particulars	Description	Submission Date
Contractor's All Risk Insurance (CARI) policy certificate	Full CARI coverage for the entire duration of the project.	Upon issuance of Notice to Proceed and before actual implementation of project.
Detailed working plans and layout / diagram	Copies of plans and layout must be in blue print – subject to final approval of FMD.	Prior to actual implementation of the project.
Clearances/Permits	Clearances/permits as may be required by Government Agencies relative to the project	- do -
Personnel and Equipment List	List of personnel assigned for the project implementation and electrically-operated tools/equipment with corresponding power rating	- do -
Comprehensive Test Result	Report on the result of the comprehensive testing conducted on the fully integrated "Earthquake Recording Instrumentation System"	Upon completion of the project
As-Built Plan / layout diagram	Duly signed and sealed as-built plan/layout diagram of the entire system	- do -
Warranty Certificate	Two (2) years warranty certification to commence upon turn-over and acceptance of the project	Upon project turn-over and acceptance
Operation and Maintenance Manual	System Operation and Maintenance Manual	- do -
Comprehensive Preventive	Pro-forma template for the conduct and	Upon expiration



## CLASS D

Maintenance Program	implementation of Comprehensive Preventive Maintenance Program	of Warranty
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### 9. Estimated Project Cost:

Particulars	Quantity	Unit Cost	Amount
Complete scope/package for the supply, delivery and installation (SDI) of earthquake recording instruments	1 lot		
Contractor's All Risk Insurance (CARI)	1 lot		
Total Project Cost			
Say...			

### IV. Supplier Qualification Requirements:

Qualification	Documentary Requirements
1. Must be a duly registered supplier/ service contractor of Earthquake Recording Instrumentation for buildings with a minimum active experience of two (2) years prior to bidding schedule.	<ul style="list-style-type: none"><li>• Certificate of Business Registration (SEC or DTI, etc.)</li><li>• Purchase Orders, Contracts or equivalent documents covering a two-year period prior to bidding schedule.</li></ul>
2. Must conduct pre-inspection, verification and overall project assessment.	<ul style="list-style-type: none"><li>• Certificate of Inspection issued by LANDBANK-FMD.</li></ul>
3. Must be employing the following personnel for the undertaking and implementation of the project: <ul style="list-style-type: none"><li>• Certified Structural Engineer</li><li>• Registered Electrical Engineer</li><li>• Safety Officer</li><li>• Technicians/Installers</li></ul>	Certificates of employment and : <ul style="list-style-type: none"><li>• Certificate of accreditation issued by PRC as Structural Engineer and Association of Structural Engineers of the Philippines</li><li>• PRC License</li><li>• COSH Training Certificate</li><li>• Certificate of Training/Seminar for the Installation of Earthquake Recording Instrument from the manufacturer.</li></ul>

### V. Manner of Payment:

1. All payments shall be subject to LANDBANK's standard accounting and auditing rules and regulations.
2. All payments shall be processed after the project is turned-over and accepted by FMD.

### VI. Other Terms and Conditions:

1. The contractor/supplier/service provider shall:

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- a. Coordinate with FMD for schedules and project briefing. Work authorization permit must be secured from FMD prior to any mobilization. Work schedule is from 8:00 AM to 5:00PM daily from Monday to Sunday, provided it will not cause any disruption in the operation of the Bank.
- b. Provide its workers with the required personal protective equipment (PPE) and appropriate tools in the implementation of the project in compliance with the Environmental Management System (EMS) Program of the Bank in accordance with the requirement of ISO 14000.
- c. Be liable and solely responsible for any harm, damage and injury that may be incurred or suffered by its own crew/workers or any other person in the implementation of the project and to any damage to the Bank's property arising from the acts whether partial, contributory or due entirely to the fault, negligence and/or dishonesty of its workers in the course of their duties.
- d. Maintain cleanliness at all times. It shall be responsible for the collection and proper disposal - outside of the Bank premises, of all waste materials resulting from any activity related to the implementation of the project, in compliance with the Bank's Environmental Management System (EMS) Program and the requirements of the covering policies, rules and regulations of the Department of Environment and Natural Resources (DENR) and the Environmental Management Bureau (EMB).
- e. Be bounded by and shall strictly observe the Bank's existing rules and regulations with regards to the standard security policies and procedures while in the premises.

### VI. Contacts Persons:

For further information, you may get in touch with any of the undersigned at Tel Nos.(02) 522-000 locals 2323, 2196 and 8442.

Prepared by:

  
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