

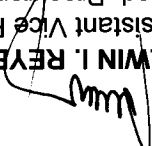
SUPPLEMENTAL/BID BULLETIN NO. 1
For LBP-HOBAC-ITB-CW-20190311-02

PROJECT	:	One (1) Lot Structural Retrofitting Works at LANDBANK Plaza Building
IMPLEMENTOR	:	Procurement Department
DATE	:	April 4, 2019

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:

- The Terms of Reference (Annex A), Section VI (Specifications) and Checklist of the Bidding Documents (Item Nos. 18 & 22) have been revised. Please see attached revised Annexes A-1 to A-7 and specific sections of the Bidding Documents.


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

Section VI. Specifications

<p>Work Completion (Contract to start three [3] calendar days after receipt of Notice to Proceed)</p>	<p>Name of Project</p>
<p>150 calendar days</p>	<p>One (1) Lot Supply of Labor, Materials, Supervision Services, Tools and Equipment for the Structural Retrofitting Works at the LANDBANK Plaza Building Item description, scope of works and other requirements per attached Revised Terms of Reference (Annex A) and Bill of Quantities (Annex B)</p>

Conforme:

Name of Bidder

Signature Over Printed Name of Authorized Representative

Position

Checklist of Bidding Documents for Procurement of Civil

Works

Documents should be arranged as per this Checklist. Kindly provide folders or guides, dividers and ear tags with appropriate labels.

First Envelope – Eligibility and Technical Components

- The First Envelope shall contain the following:
 - Eligibility Documents – Class “A”

Legal Eligibility Documents

1. PhilGEPS Certificate of Registration under Platinum Membership (all documents enumerated in its Annex A must be updated); or all of the following:

- Registration Certificate from SEC, Department of Trade and Industry (DTI) for sole proprietorship, or 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; and

- Tax Clearance per Executive Order 398, Series of 2005, as finally reviewed and approved by the BIR.

- Current PCAB license with General Engineering Classification and a Certificate of Good Standing from PCAB

Technical Eligibility Documents

2. 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).

3. Statement of the prospective bidder identifying its single largest completed contract similar to the contract to be bid, equivalent to at least fifty percent (50%) of the ABC supported with contract/purchase order, end-user's acceptance or official receipt(s) issued for the contract, 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

4. 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.

5. The prospective bidder's computation for its Net Financial Contracting Capacity (NFC) 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.

○ **Eligibility Documents - Class "B"**

6. 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 NFC shall likewise submit the statement of all its ongoing contracts and AFS.

● **Technical Documents**

7. Duly notarized Omnibus Sworn Statement (sample form – Form No. 6)
8. 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 (sample form No. 7).
9. Bid security in the prescribed form, amount and validity period (ITB Clause 18.1 of the Bid Data Sheet).
10. Organizational chart for the contract to be bid.
11. List of contractor's personnel with their complete qualification and experience data.
12. List of contractor's equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be.

13. Manpower schedule including the curricula vitae of key personnel (please refer to Clause VI.5 of the Terms of Reference for their qualification requirements.

14. Construction methods

15. Equipment utilization schedule

16. PERT/CPM or other acceptable tools of project scheduling

17. Construction schedule and S-curve

18. Revised Schedule VI – Specifications with name of bidder and signature of its authorized representative.

19. Section VII – Drawings with name of bidder and signature of its authorized representative.

20. Section VIII – Bill of Quantities with name of bidder and signature of its authorized representative.

- **Post-Qualification Documents – (Non-submission of the following documents may result in bidder's post-disqualification):**

21. Previous Contracts, Purchase Order, Certificate of Satisfactory Performance or equivalent documents as proof that the supplier has minimum experience of ten (10) years in the field of structural investigation and evaluation of buildings that includes design of new buildings (conventional and post-tensioned concrete) as well as construction strengthening / retrofitting of existing building.

22. Previous Contracts, Purchase Orders, Certificate of Satisfactory Performance or equivalent documents as proof that the contractor has an experience of having completed a minimum of five (5) similar contracts in the application of CFRP and epoxy injection for vertical structures or buildings (local and abroad) for the last ten (10) years with an aggregate amount of Php 20M.

23. ICBO/ICC-ES Evaluation Report or ISO 9001 Certificate of the manufacturer of the retrofitting material (CFRP).

24. Certificate of Inspection (CI)

25. 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.

26. Income Tax Return for 2017 filed manually or through EFPS.

• **The Second Envelope shall contain the following:**

1. Duly filled out Bid Form signed by the bidder's authorized representative (sample form – Form No. 1)
2. Duly filled out Bill of Quantities
3. Detailed estimates, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid
4. Cash flow by quarter or payment schedule

REVISED TERMS OF REFERENCE

I. NAME AND DESCRIPTION OF THE PROJECT

ONE (1) LOT – Supply of Labor, Materials, Supervision Services, Tools and Equipment for the Retrofitting Works at the LANDBANK Plaza Building, 1598 M. H. del Pilar cor., Dr. J. Quintos, Sts., Malate, Manila

II. INTRODUCTION

The LANDBANK Plaza Building of the Land Bank of the Philippines (LBP) located at M.H. Del Pilar Cor Dr. Quintos, Malate Manila, is a 36 Storey with basement and heliport building composed of pre-stressed concrete beams and reinforced concrete columns and floor slabs.

The LBP engaged the services of VNR Villaseñor & Associates (VNRVA) in joint venture with Universal Testing Laboratory & Inspection, Inc. (UTLII) to assess, evaluate and audit the structural strength and serviceability of LANDBANK Plaza Building relative to the provisions of the National Structural Code of the Philippines (NSCP) 2010 Edition and reference documents of the American Society of Civil Engineers (ASCE 41-13).

The result of the structural audit showed that some structural members of LANDBANK Plaza Building have to be retrofitted/strengthened. In this regard the LBP intends to invite prospective contractors to undertake the preparation of detailed retrofitting drawings and implementation of retrofitting and repair works to assure the said building's safety in the event of a major earthquake.

III. PURPOSE/OBJECTIVES OF THE PROJECT

To strengthen and enhance the structural stability of LANDBANK Plaza building and ensure safety of its occupants thru implementation of the recommended retrofitting works.

IV. SCOPE OF WORK

1. Prospective contractors shall conduct a thorough site inspection with the structural audit consultant of the building in order to familiarize themselves with the extent, condition, and nature of the work involved.
2. Examine the conceptual drawings and the structural audit report and shall notify the principal structural engineer of any discrepancy they may find before proceeding with the preparation of the construction documents.
3. Prepare all the necessary construction documents that include final construction drawings, work methodology, detailed quantity take-off, detailed cost estimate and program of work and construction schedule, necessary supplemental drawings, specifications, construction schedule, manpower schedule, and organizational chart based on the conceptual retrofitting scheme.

The Winning Contractor shall submit to LBP the following:
a. Two (2) sets of prints of as-built plans/shop drawings, specifications, bill of

V. OTHER DELIVERABLES

- a. Identification of points, approved by the engineer for initial exploratory ocular inspection, likely damaged during the life of the structure
 - b. Repair of concrete cracks by epoxy injection or other approved methodology. All reported cracks shall be epoxy injected, and a post crack monitoring program shall be implemented (as per approval by the owner).
 - c. Non-structural element like concrete masonry unit (CMU) walls shall be filled with mortar.
 - d. Repair of damaged concrete surfaces
 - e. Repair work for the following:
 - Leak at Ramp; and
 - Cracks at Cistern
 - f. Installation of Architectural elements
- the following:

Undertake all activities that are identified required in the implementation of the approved detailed structural and non-structural plans/drawings. This shall include

B. PHASE 2 Structural and Non Structural Repair Works Based on the Comprehensive Site Inspection of the Contractor

- a. Carbon Fiber Reinforced Polymer (CFRP) retrofitting at identified locations including a portion of 5th Floor parking area.
 - Layout
 - Scaffolding and Falsework
 - Removal of Architectural elements
 - Grinding works / cleaning on surfaces of Concrete
 - Supply and Application of Carbon Fiber (in accordance with the plan and product specifications.)
 - Conduct site meetings and prepare progress reports
- b. Other retrofitting and repair activities as needed such as:

Undertake all activities that are required in the implementation of the approved detailed structural retrofitting/strengthening works. This shall include the following:

A. PHASE 1 Structural Retrofitting Works

4. Submit and have the construction documents approved by the local regulatory agencies/bodies prior to proceeding with the implementation of the retrofitting/strengthening and/or repair works. "No approved permit from local regulatory agencies/bodies and from LBP Authority, No work" policy shall be implemented.
5. Submit specifications of the materials to be used which should be equal or better than the specified materials indicated in the preliminary retrofitting plan. Samples of all materials needed for repair and implementation of retrofitting works shall be subject to examination and testing by an accredited Testing of Materials firm

quantities, and detailed cost estimates to be reviewed and approved for construction and implementation.

b. Cost and manning requirements for the construction management and supervision of the project shall include details of the professional fees.

c. Project implementation schedule for the construction management and supervision of the project.

All plans and documents related to this construction retrofitting services shall become the property of LBP.

Samples and brochures of the following materials (as applicable) shall be submitted for approval prior to implementation:

- a. Carbon Fiber to be installed
- b. Floor Finishes
- c. Tiles
- d. Painting Materials

VI. QUALIFICATIONS AND DOCUMENTARY REQUIREMENTS

Qualification Requirements	Documentary Requirements
<p>1. Must have a minimum of ten (10) years of experience in the field of structural investigation and evaluation of buildings that includes design of new buildings (conventional and post-tensioned concrete) as well as construction strengthening /retrofitting of existing buildings;</p> <p>2. Must have a valid PCAB license with a General Engineering Classification and must not be blacklisted in the record of the Philippine Contractors Accreditation Board;</p> <p>3. Must have an experience of having completed a minimum of five (5) similar contracts in the application of CFRP and epoxy injection <i>for vertical structures or buildings</i> (local and abroad) for the last ten (10) years with an aggregate amount of Php 20 M.</p> <p>4. The Manufacturer of the retrofitting material (CFRP) must have a valid ICBO/ICC-ES evaluation report or <i>ISO certificate</i>.</p> <p>5. Must have minimum key personnel for the entire duration of the project as follows: • PROJECT/CONSTRUCTION</p>	<p>List of completed projects supported with their related documents (e.g. previous contracts, Purchase Orders, Certificate of Satisfactory Performance, etc.)</p> <p>Current PCAB license with government registration <i>and a certificate of good standing from PCAB</i></p> <p>List of completed projects supported with their related documents (e.g. previous contracts, Purchase Orders, Certificate of Satisfactory Performance, etc.)</p> <p>ICBO/ICC-ES Evaluation Report or ISO 9001 Certificate</p> <p>The Curricula vitae of all key personnel in Certificate of accreditation as specialist in</p>

Subject: TOR for Retrofitting LBP Plaza

Date: Draft prepared on May 4, 2018

Date Revised: May 11, 2018 May 21/June5/June13/July3/updated July13/Final July23

REVISED Annex A - 3

REVISED Annex A-4

B. STRUCTURAL EPOXY SPECIFICATIONS	
<ul style="list-style-type: none"> • Elastic Modulus, $E_f = 231\text{KN/mm}^2$ • Ultimate tensile strain, $\epsilon_u = 0.17$ • Effective ultimate strain $\epsilon_e = 0.0153$ • Thickness = $> 0.12\text{mm}$ 	
A. CFRP SPECIFICATIONS	

VII. MINIMUM MATERIALS SPECIFICATIONS AND STANDARD REFERENCES

ICBO - International Conference of Building Officials
ICC-ES - International Code Council- Evaluation Service

<p>Project and Construction Management from Philippine Institute of Civil Engineers (PICE) Specialty Division.</p> <p>Certification from the employer/contractor</p> <p>Certificate of accreditation issued by the following:</p> <ol style="list-style-type: none"> 1. Professional Regulation Commission (PRC) as Structural Engineer or PICE Specialty Division; and 2. Association of Structural Engineers of the Philippines (ASEP) <p>Certification from the employer/contractor</p> <p>Certificate of accreditation as specialist in Materials Engineering from Department of Public Works and Highways (DPWH)</p>	<p>MANAGER - a registered Civil Engineer with a minimum of ten (10) years experience in project management and supervision of general engineering projects</p> <p>WORKS/PROJECT ENGINEER - a registered Civil Engineer with a minimum of ten (10) years experience as Project Engineer</p> <p>STRUCTURAL ENGINEER - a registered Civil Engineer with a minimum of ten (10) years experience in structural design, and must be a PRC or PICE Recognized/Specialist Structural Engineer and at least a regular member of the Association of Structural Engineers of the Philippines (ASEP)</p> <p>QUANTITY SURVEYOR must be a duly licensed Engineer with a minimum of 10 years experience in the field of quantity surveying</p> <p>MATERIALS ENGINEER must be a registered civil engineer certified by the DPWH as Materials Engineer with a minimum of five (5) years experience as Materials Engineer for similar projects</p> <p>APPLICATORS for the CFRP must have been trained by the manufacturer and must have documented experience of a minimum of five (5) projects of similar nature, using similar materials within the last five (5) years</p>
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- Inspect, verify and assess the condition, location and details of the project. LBP FMD will issue **CERTIFICATION OF INSPECTION (CI)**. No CI is

1. The winning Contractor shall:

X. OTHER TERMS AND CONDITIONS

Procedures.

Progress payment shall be implemented subject to LBP Accounting and Auditing

IX. PAYMENT PROCEDURE

- a. The contract duration is for a period **ONE HUNDRED FIFTY (150)** calendar days with schedule of work to be provided in the Project Timeline.
- b. Commencement of work shall be three (3) calendar days from receipt of Notice to Proceed (NTP).
- c. Schedule of work shall be as shown below:
 - Weekdays : 7:00 PM to 4:00 AM
 - Weekends/Holidays : 8:00 AM to 5:00 PM
- d. Schedule of work may be change subject to mutual agreement between the Contractor and Facilities Management Department provided there will be no disruption in the operations of LBP.
- e. All works, schedules and other concerns shall be coordinated with the following FMD contact persons:
 - o Engr. Ramil P. Remillano local 7360
 - o Engr. Edgardo V. Calderon local 8442

VIII. CONTRACT DURATION AND SCHEDULE OF WORK

C. CFRP and Structural Epoxy Standard Reference	
ASTM - D3039	Ultimate Tensile Strength, ultimate elongation, tensile modulus
ASTM - D3171	Fiber Content of Resin Matrix Composites by Matrix Digestion
ASTM - D3801	Flammability (minimum of 1 hour)
ASTM - D638	Tensile Properties of Plastics for Adhesion samples only

<p>Laminate adhesive:</p> <ul style="list-style-type: none"> • Adhesive strength (Mpa) > 3.5 • Compressive strength (Mpa) > 60 <p>Fabric Impregnation Resin:</p> <ul style="list-style-type: none"> • Adhesive strength (Mpa) > 1.5 • Compressive strength (Mpa) > 60 <p>Fabric Primer:</p> <ul style="list-style-type: none"> • Adhesive strength (Mpa) > 1.5 • Compressive strength (Mpa) > 60 	
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an outright disqualification of the bid proposal. This shall form part of the technical documents to be submitted to Procurement Department (ProcD) during the bidding.

- Secure all permits and other documents needed to implement the Project.
- Prepare a detailed plan proposal for the temporary transfer of affected area of repair for the purpose of the undisturbed and continuous operation of LBP.
- Ensure that the service provider's staff/personnel are equipped with the appropriate Personnel Protective Equipment (PPE) (i.e., helmets, dust masks, uniform outfit with the name of the contractor's company, safety shoes, etc.) during the implementation of the project.

- Observe SAFETY at all times and shall be liable for any harm, damage or injury that may be sustained or suffered by its own crew/workers while in the performance of their duty.

- Secure a Comprehensive General Liability Insurance (GLI) and Contractor's All Risk Insurance (CARI) from the Landbank Insurance Brokerage Inc. (LBI) to be submitted to FMD prior to the start of the project or issuance of NTP.

- Be directly responsible for any injury to person and/or damage to LBP's property arising from the act, whether partial, contributory, or due entirely to the fault, negligence and/or dishonesty of the Contractor's personnel, in the course of their duty.

- Maintain cleanliness at all times. It shall clean the affected area immediately after each work day.

- Be subject to the security, building and LBP's policies, rules, and regulations.

- Control the generation of dust and flying particles from its operations to prevent creation of nuisance to the public. All materials to be used must be submitted with Material Safety Data Sheet (MSDS) specifications for reference. Non-toxic materials are preferred with low emissions of volatile organic compounds and must comply with applicable national Volatile Organic Compound (VOC) control regulations such as the Hong Kong Air Pollution Control (VOC) Regulation or the Canadian VOC Concentration Limits for Architectural Coatings

- Implement a post monitoring program within the warranty period with a frequency of inspection on a quarterly basis, or as requested by FMD for the following:

- All slabs for any serviceability issues (cracks, deflection and vibration).
 - All beams for any serviceability issues (shear /flexural cracks and deflection).
2. FMD shall validate and assess the output of the winning contractor.
 3. Whenever an item or class of material is specified exclusively by trade name, by manufacturer's name or by catalog references, only such item shall be used, unless the LBP's approval for substitution is secured.

Prepared by:

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 Secretariat, TWG for Structural
 Retrofitting of LBP Plaza

Recommended for Approval by:

THE TECHNICAL WORKING GROUP

MR. ALEXANDER S. LAZARO, Member/Head, PMED

MR. RAMIL P. REMPLANO, Member/Head, FMD

AVP ALWIN I. REYES, Member/Head, ProCD

VP DINA MELANIE R. MADRID, Chairman/Head, FPSC

Attached are the following:

- a. Bill of quantities (BOQ) – Annex "A"
- b. Building Committee Resolution – Annex "B"
- c. Proposed Structural Retrofitting plans/drawings - Annex "C"
- d. Material specifications for CFRP and concrete epoxy – included in the TOR
- e. Procurement Revolving Fund (PRF) – Annex "E"

Subject: TOR for Retrofitting LBP Plaza

REVISED ANNEX A-7