



LAND BANK OF THE PHILIPPINES

ISO 14001 CERTIFIED

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BID BULLETIN NO. 1 For ITB No. 2014-3-200

PROJECT : **One Lot Supply, Delivery, Installation, Testing and Commissioning of 4.8 KW Photovoltaic / Solar Panel Systems On-Grid Type at LANDBANK Lucena and Daet Branches**

IMPLEMENTOR : **Procurement Department**

DATE : **November 20, 2014**

This Bid Bulletin is hereby issued for the information of the participating bidders on the revision of requirements for the above project, to wit:

- Delivery period has been revised as follows:

FROM	TO
Thirty (30) calendar days after receipt of Purchase Order	Forty Five (45) calendar days after receipt of Purchase Order

- Terms of Reference has been revised. Please see revised pages 1 to 5.
- Section VI (Schedule of Requirements) and Section VII (Technical Specifications) have been revised. Please see revised pages 69 and 71.
- Checklist of Bidding Documents has been revised. Please see revised page 88.


ALWIN I. REYES
Department Manager
Procurement Department

TERMS OF REFERENCE

I. Name and Description of the Project:

One (1) Lot – Supply of labor, materials, tools, equipment and technical expertise, testing and commissioning for the installation of 4.8 KW PhotoVoltaic/Solar Panel On-grid Type for the following LBP Branches:

1. LBP Lucena Branch
2. LBP Daet Branch

II. Objective of the Project:

1. To support the Government’s program on renewable energy and Bank’s advocacy/Corporate Social Responsibility consistent with LBB’s direction for a green building.
2. To comply with the requirements of the Bank’s Environmental Management Program on ISO14001 certification, cost reduction program and other regulatory laws and requirements of the Philippines.

III. Scope of the Project and Delivery Time/Completion:

1. Supply, delivery and installation	<ul style="list-style-type: none"> • Mobilization of manpower and equipment/tools at the site • PhotoVoltaic/Solar Panel System <ol style="list-style-type: none"> 1. Solar Module 2. Inverter 3. Mounting Frames 4. Wires/Cables 5. Miscellaneous Materials • Testing, commissioning and energization • Cleaning-up works and demobilization 	
2. Installation Schedule	Monday to Sunday	
3. Delivery Period	Forty five (45) calendar days upon receipt of Notice to Proceed (NTP)	
4. Warranty	Ten (10) years for Solar Module, Inverter and Mounting frame including against factory defects and faulty workmanship reckoned from formal turn-over and final acceptance	
5. Training	Conduct orientation to LBP Branch Staff and PMED representatives	
6. Maintenance	Conduct Preventive Maintenance service during warranty period	
7. Submit Reports to PMED/Branch		
Name of Report	Description	Due Date of Submission
a. Detailed drawing plans	Submission of complete electrical/detailed drawing and spot section plans	Prior to installation/implementation
b. Service Reports	Actual activities conducted by the supplier	Upon Completion
c. Test Results and Reports	Data obtained from actual testing	Upon Completion
d. Warranty Certificate	Submission of Warranty Certificate	Upon Completion
e. Brochures	Operation and Preventive Maintenance Manual	Upon Completion

IV. Technical and Other Specifications:

Name and Description	Technical Specifications	
Solar Panel Module	<u>Mechanical</u> Cell Type : Mono-crystalline silicon Peak Power Output (Pmax): 100W,250W,300 W Dimension(mm) : 1200x540x35 min. Weight(kg) : 9.6 min Back Sheet Colour : White Mechanical Load (MPa) : 2400 Certification : ISO9001	
	<u>Electrical</u> Open-Circuit Voltage (Voc) : 22.3 Optimum Operating Voltage (Vmp): 17.8 Short-Circuit Current (Isc) : 5.53 Optimum Operating Current (Imp) : 5.62 Cell Efficiency (%) : ≥ 18 Max system Voltage : 750 V Max Fuse Rating (A) : 10 Power Tolerance (%) : ± 3	
	<u>Temperature</u> Nominal Operating Cell Temp. : 47°C(+2°C) Temperature Coefficient of Pmax : -0.45%/°C Temperature Coefficient of Voc : -0.35%/°C Temperature Coefficient of Isc : +0.05%/°C	
	ON-GRID DIVERTER	Type : Isolating
		Transformer
		Rated Power (KW) : Variable
		Max. PV Module Power Allowed : 1.1
		Max. Open Voltage : 100
		Recommended PV Module Numbers : 4 loops
		(17V/module)
		MPPT range (VDC) : 40~8
		Grid Voltage Range (VAC) : 180~260
		Rated Grid Frequency : 60 hz.
Max. Efficiency : 94%		
Display : LED THD(lac) : THD(lac)<4%(full cap.)		

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Various LBP Branches

	Power Factor : 99% Waterproof and Dustproof : Outdoor Cooling System : Naturally Cooling Operating Environment Temperature : -20°C~ + 50°C Operating Environment Humidity : 0~95% (Non-condensing) Dimension (mm) : 380x410x240 Weight (kg) : 33 Certification : ISO9001
PHOTOVOLTAIC WIRE	Conductors : Stranded Copper Insulation : XLPE Rated Temperature : 90°C for exposed or concealed wiring Rated Voltage : 600V Protection : Sunlight resistance Application : Direct Burial Reference Standard : UL Subject 4703 Certification : ISO9001
Mounting Frame	Type : Roof Mount Material : Extruded Aluminum (Frame & Rails), Anodized Treatment : Design Load : 105 kN/sq.m.

V. Qualification and Documentary Requirements:

Qualification Requirement	Documentary Requirement
1. Must have minimum experience of five (5) years in the business of sales, design, installation and commissioning of Photovoltaic/ Solar Panel System	1. Submission of related documents (e.g. previous Purchase Orders, Contracts, etc.)

VI. Manner of Payment:

Deliverables	Percentage of Payment	Amount of Payment
• Upon 100% completion and acceptance of the project	90%	

• Retention fee: After the warranty period	10%	
TOTAL	100%	

VII. Other Terms and Conditions:

- A. The prospective supplier should submit projected computation/calculation of the **expected savings and payback period** of the Solar System Panel being supplied during the bidding.
- B. The supplier should include options for **Central Control Monitoring System (Web Access)** for easy management of all branches having Solar System Panel.
- C. The prospective supplier should inspect, verify and assess condition, location and details of the **project site and design a system that will generate the maximum power that solar panels can harness on the rooftop of the particular Landbank buildings** and submit a Comprehensive Inspection Report. PMED will issue the corresponding Certificate of Inspection (CI). No CI will mean outright disqualification of bid.
- D. The prospective supplier should submit the detailed schedule of the project using Gantt Chart and work methodology as part of the bid document (technical) to be submitted in a separate envelope.
- E. In line with the Bank's Environmental Management System (EMS) program and being an ISO 14001 certified institution, the winning supplier is required to use the appropriate equipment, hand tools and personal protective gears and equipment during the implementation of the project.
- F. The winning supplier should coordinate with PMED all works to be undertaken relative to the project.
 - 1. Mounting frames must be properly mounted on roof framing such as C-purlins, rafter, etc.
 - 2. Winning supplier must apply sealants on roof holes including existing roof holes present in the area where the solar panels will be installed.
 - 3. In the event that the solar panels will be installed on roof deck, the contractor shall apply structural sealant to all anchoring stone made on the concrete slab and re-apply waterproofing.
 - 4. All areas applied with waterproofing should be flood-tested for at least 24 hours in coordination with the branch/end-user.
- G. The winning supplier should be responsible for the collection of all wastes, residues, empty containers, rugs, etc, etc resulting from the source emission sampling activities. The collected wastes/residues shall be placed and sealed in plastic bags

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or containers, labelled property and shall be brought back to the supplier's warehouse for proper disposal.

- H. The winning supplier should 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/job under this project.
- I. The winning supplier should be held directly responsible for any injury to person and/or damage to the Bank's property arising from the acts whether partial, contributory, or due entirely to the fault, negligence and/or dishonesty of the supplier's personnel in the course of their duties.
- J. The winning supplier should maintain cleanliness at all times. It shall clean the affected area immediately after each workday.
- K. The winning supplier should secure a Comprehensive General Liability Insurance (CGLI) to be submitted to LBP prior to the start of the project of issuance of Notice to Proceed (NTP).


CGLI coverage shall be the following:	
> Each person	PhP 50,000
> Each accident	PhP 50,000
> Each period of indemnity	PhP 50,000
Property damage liability	
> Each person	PhP 50,000
> Each accident	PhP 50,000
> Each period of indemnity	PhP 50,000
Maximum aggregate limit	
> Contract amount under this project per bid offered by the winning supplier.	

- L. The supplier should strictly observe the Bank's existing rules and regulations and shall be subject to the Bank's standard security policies and procedures while in the premises.

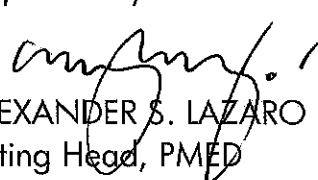
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Section VI. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item Description	Quantity	Contract Period and Destination
One Lot Supply, Delivery, Installation, Testing and Commissioning of 4.8 KW Photovoltaic / Solar Panel Systems On-Grid Type at LANDBANK Lucena and Daet Branches	One Lot	Forty Five (45) calendar days after receipt of Notice to Proceed LANDBANK Lucena and Daet Branches

Conforme:

Name of Bidder

Signature Over Printed Name of
Authorized Representative

Position

Technical Specifications

Specification	Statement of Compliance
<p>One Lot Supply, Delivery, Installation, Testing and Commissioning of 4.8 KW Photovoltaic / Solar Panel Systems On-Grid Type at LANDBANK Lucena and Daet Branches</p> <p>Other requirements:</p> <ol style="list-style-type: none"> 1. Compliance to the terms and conditions and technical specifications per attached Revised Terms of Reference (TOR) – Pages 1 to 5 2. Submission of the following documents in the eligibility/technical envelope <ol style="list-style-type: none"> a) Brochures or any other documents indicating the complete specifications of the offered photovoltaic / solar panel system b) List of completed projects supported by related 	<p>Bidders must state below either “Comply” or “Not Comply” against each of the individual parameters of each specification stating the corresponding performance parameter of the items offered.</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 provisions of ITB Clause 3.1(a)(ii) and/or GCC Clause 2.1(a)(ii)</p> <p>Please state here either “Comply” or “Not Comply”</p>

should not be earlier than two (2) years from the date of bid submission.

7. The prospective bidder's computation for its Net Financial Contracting Capacity (sample form - Form No. 5)
8. Brochures or any other document indicating the complete technical specifications of the offered photovoltaic / solar panel system
9. List of completed projects supported by related documents (e.g. contracts, purchase orders, etc.) to serve as proof that bidder has five (5) years experience in the business of design, installation and commissioning of photovoltaic/solar panel system
10. Certificate of Inspection issued by Project Management and Engineering Department
11. Detailed schedule of the project using Gantt Chart and work methodology
12. Project computation / calculation of the expected payback period of the Solar Panel System

Class "B" Document

13. 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 the legal eligibility documents. The submission of technical and financial eligibility documents by any of the joint venture partners constitutes compliance.
14. Bid security in the prescribed form, amount and validity period (ITB Clause 18.1 of the Bid Data Sheet);
15. **Revised Schedule VI - Schedule of Requirements with signature of bidder's authorized representative.**
16. **Revised Section VII - Technical Specifications with response on compliance and signature of bidder's authorized representative.**
17. Duly notarized Omnibus Sworn Statement (sample form - Form No. 6).