



## GOVERNMENT OF SAINT LUCIA

Ministry of Economic Development, Housing, Urban Renewal, Transport and Civil Aviation

### DEPARTMENT OF ECONOMIC DEVELOPMENT, TRANSPORT AND CIVIL AVIATION

#### **Project Coordination Unit**

April 19, 2018

Dear Potential Bidders

***Reference: Clarification 002 and Addendum #006 to ICB Bidding Document  
# #SLU-PVSOLSYS-GOODS-ICB-01-17***

**Supply and Installation of Solar-Photovoltaic (PV) Array for the EU Owen King Hospital  
(National Hospital) Millennium Highway, Castries, Saint Lucia  
Saint Lucia –SOLAR PV Demonstration and Scale Up Project**

**This Clarification #002 seeks to provide clarification on the following:**

No.	Query	Response
1	What is the cost of obtaining a permit and how long does it typically take?	<b>Bidders' attention is drawn to Item #1 of Addendum #006</b> which seeks to amend Clause B of Subsection 3.0 SUPPLIER REQUIREMENTS of Section VII Schedule of Requirements.
2	<p>Inverters must comply with IEEE 1547, are there acceptable equivalents? The requirement that the inverter must be IEEE 1547 compliant.</p> <p>St Lucia is 50 Hz and most of the inverters suitable for installation there are likely to be certified under European standards. If the requirement is for IEEE1547 only, this is likely to eliminate the 50 Hz versions of some manufacturers.</p> <p>There are some manufacturers, including those in the US that do not test their 50 Hz versions to</p>	<b>Item #2 of Addendum #006</b> is issued to amend Sub Clause C of Clause 6.3 Inverters of Sub Section 6.0 Equipment and Materials of Section VII Schedule of Requirements

	IEEE1547 or UL test.  Please advise if a European equivalent (maybe specifically designated by you) is acceptable.	
3	What is the height of the building?	<p><b>Bidders, attention is drawn to Item #3 of Addendum #006</b> which seeks to amend Clause 2.1 B LOCATION of Sub Section 2.0 DESCRIPTION OF THE WORK of Section VII Schedule of Requirements which provides the height of the building</p> <p>Bidders will also be provided with the Structural Assessment Report which may be accessed on <a href="http://www.finance.gov.lc">www.finance.gov.lc</a></p>

***Addendum #006 to ICB Bidding Document # #SLU-PVSOLSYS-GOODS-ICB-01-17***

**Item #1**

**Sub Clause 3.1 B of Subsection 3.0 SUPPLIER REQUIREMENTS of Section VII Schedule of Requirements, is amended:**

**Original**

- B. Engineering designs and drawing packages for permitting, Installation, and Record Drawings. Drawings and calculations must be sealed or stamped by a locally licensed Professional Engineer (PE), once in final form and include at minimum the requirements defined in Section VII Schedule of Requirements ; Drawings and Calculations

**to read as follows:**

- C. Engineering designs and drawing packages for permitting, Installation, and Record Drawings. **Selected supplier's** Drawings and calculations must be sealed or stamped by a locally licensed Professional Engineer (PE), once in final form and include at minimum the requirements defined in Section VII Schedule of Requirements; Drawings and Calculations

The permitting application procedure for Solar PV generation can be found at:

<http://nurc.org.lc/wp-content/uploads/2017/11/Application-Procedure-for-Solar-PV-Generation.pdf>

**Item #2.**

**Item #12 of Addendum #004 is amended**

**Original**

**Sub Clause C of Clause 6.3 Inverters of Sub Section 6.0 Equipment and Materials of Section VII Schedule of Requirements, amended to read:**

- C. Inverters shall be listed by manufacturer and type (not necessarily model number) if that make and model is included in the 2017 version of the California Energy Commission database as published at [www.gosolarcalifornia.ca.gov](http://www.gosolarcalifornia.ca.gov). Inverter shall be UL listed, or other national test listing standard.

**to read as follows:**

Inverters shall be listed by manufacturer and type (not necessarily model number) in the 2017 version of the California Energy Commission database as published at [www.gosolarcalifornia.ca.gov](http://www.gosolarcalifornia.ca.gov) or equivalent. Inverter shall be UL listed and meet IEEE 1547 or IEC 60146 or equivalent.

**Item #3.**

**Sub Clause 2.1A of Clause 2.0 Description of Works of Section VII Schedule of Requirements is amended:**

**Original**

2.1 LOCATION. Array to be installed at the following location, and as depicted in the attachments to Exhibit A.

A. Solar-PV arrays installed on the four patient wing pitched roofs of the EU Owen King Hospital (National Hospital) on Millennium Highway in Castries, Saint Lucia. Coordinates 14d 00' 05" N, 61d 00' 33" W. The roofs are corrugated metal panel attached to a steel-skinned, structurally-insulated panel decking on structural steel framework.

**to read as follows:**

2.1 LOCATION. Array to be installed at the following location, and as depicted in the attachments to Exhibit A.

- A. Solar-PV arrays installed on the four patient wing pitched roofs of the EU Owen King Hospital (National Hospital) on Millennium Highway in Castries, Saint Lucia. Coordinates 14d 00' 05" N, 61d 00' 33" W. The roofs are corrugated metal panel attached to a steel-skinned, structurally-insulated panel decking on structural steel framework. The building height is fourteen meters (14m).

**Item #4**

**Item #1 of Addendum #004 is amended:**

**Original**

**Clause 4.1 of Subsection 4.0 PURCHASER PROVIDED FACILITIES AND SERVICES of Section VII Schedule of Requirements, is amended to read as follows:**

- 4.1 The arrays interconnection, Point of Common Coupling (POCC) should be in the penthouse electrical panels. Purchaser will be responsible for all work associated with providing a POCC for Supplier connection. Connection to any “essential load” panel that is backed up by a genset shall have a reverse-current relay control system engineered and installed by Bidder to ensure backfeeding the backup genset is eliminated.

Bidder can propose POCC wherever deemed most beneficial and cost effective taking into account the entirety of the tender requirements.

The Distribution panels are between 10-30 feet from the roofs where the solar Panels will be installed. Each wing has a distribution panel for connecting the solar.

**to read as follows:**

**Clause 4.1 of Subsection 4.0 PURCHASER PROVIDED FACILITIES AND SERVICES of Section VII Schedule of Requirements, is amended to read as follows and include drawing related to ALTERNATE CONNECTION Cable runs:**

- 4.1 The arrays interconnection, Point of Common Coupling (POCC) should be in the penthouse electrical panels or a dedicated utility connection point The Bidder will be responsible for all work associated with providing a POCC for Supplier connection either:

Connection to any “essential load” panel that is backed up by a genset shall have a reverse-current relay control system engineered and installed by Bidder to ensure backfeeding the backup genset is eliminated. Bidder can propose POCC wherever deemed most beneficial and cost effective taking into account the entirety of the tender requirements. The Distribution panels are between 10-30 feet from the roofs where the solar Panels will be installed. Each wing has a distribution panel for connecting the Solar PV System

Or

A dedicated utility connection point in the penthouse of the furthest west wing of the hospital as detailed in Drawing # **Roof Layout Plan** to serve as the Point of Common Coupling (POCC) to the LUCELEC grid.

1. This POCC to a utility-furnished/installed disconnect switch inside the furthest-west penthouse. Bidder shall furnish an AC Combiner Panel (ACCP) in that penthouse, and then connect the ACCP to the POCC.
2. Reverse-current protection will not be required for this alternate.

Bidders are to show cost separately for each type of connection

**Item #5**

**Item #2 of Addendum 004 is amended**

**Original**

**Section VII Schedule of Requirements is amended to include the Structural Assessment Report and Drawings related to the Roofing system.**

<b>Drawing #</b>	<b>Drawing Description</b>
S1	As built Design for the National Hospital Roof
S2	As built Design for the National Hospital Roof
R1 – R3	Roof Reinforcement Details for the National Hospital Roof

**Amended to read as follows:**

**Section 5 Drawings of Section VII is amended to make available the following drawings available to Bidders:**

<b>Drawing #</b>	<b>Drawing Description</b>
S1	As built Design for the National Hospital Roof
S2	As built Design for the National Hospital Roof
R1 – R3	Roof Reinforcement Details for the National Hospital Roof
Roof Layout Plan	Roof Layout Plan

**Item #6**

Item #6 seeks to amend Sub Clause 6.2 B - PV Modules of Clause 6.0 Equipment and Materials of Section VII Schedule of Requirements:

**Original**

- B. The module manufacturer will be considered acceptable if that manufacturer is included in the 2017 Bloomberg Tier-1 listing and meets the other requirements of this document.

Is amended to read as follows:

B. The module manufacturer will be considered acceptable if that manufacturer is included in the 2017 Bloomberg Tier-1 listing or equivalent and meets the other requirements of this document.

Item #7

Item #7 seeks to amend Item 1 of Addendum #5

Original

	D. Submission and Opening of Bids
ITB 22.1	<p>For <b><u>bid submission purposes</u></b> only, the Purchaser's address is: Attention: <b><u>Chairperson, Central Tenders Board</u></b> Street Address: <b><i>Pointe Seraphine</i></b> Floor/ Room number: <b><i>2nd floor, Finance Administrative Building</i></b> City: <b><u>Castries</u></b> Country: <b><u>Saint Lucia</u></b> <b>The deadline for bid submission is:</b> Date: <b><i>April 11, 2018</i></b> Time: <b><i>1:00 p.m. (1300hours)</i></b> Bidders <b><i>shall not</i></b> have the option of submitting their bids electronically.</p>
ITB 25.1	<p>The bid opening shall take place at: Street Address: <b><u>Pointe Seraphine</u></b> Floor/ Room number: <b><u>3<sup>rd</sup> floor, Finance Administrative Building</u></b> City: <b><u>Castries</u></b> Country: <b><u>Saint Lucia</u></b> Date: <b><i>April 11, 2018</i></b> Time: <b><u>1:30p.m. (1330 hours)</u></b></p>
E. Evaluation and Comparison of Bids	
ITB 32.1	<p>The currency that shall be used for bid evaluation and comparison purposes to convert all bid prices expressed in various currencies into a single currency is: <b><u>Eastern Caribbean Dollars (XCD)</u></b> The source of exchange rate shall be: <b><u>Bank of Saint Lucia, Saint Lucia</u></b> The date for the exchange rate shall be: <b><i>March 28, 2018</i></b></p>

Amended to read as follows:

	<b>D. Submission and Opening of Bids</b>
<b>ITB 22.1</b>	<p>For <b><u>bid submission purposes</u></b> only, the Purchaser's address is:            Attention: <b><u>Chairperson, Central Tenders Board</u></b>            Street Address: <b><i>Pointe Seraphine</i></b>            Floor/ Room number: <b><i>2nd floor, Finance Administrative Building</i></b>            City: <b><u>Castries</u></b>            Country: <b><u>Saint Lucia</u></b>  <b>The deadline for bid submission is:</b>            Date: <b><i>April 25, 2018</i></b>            Time: <b><i>1:00 p.m. (1300hours)</i></b>            Bidders <b><i>shall not</i></b> have the option of submitting their bids electronically.</p>
<b>ITB 25.1</b>	<p>The bid opening shall take place at:            Street Address: <b><u>Pointe Seraphine</u></b>            Floor/ Room number: <b><u>3<sup>rd</sup> floor, Finance Administrative Building</u></b>            City: <b><u>Castries</u></b>            Country: <b><u>Saint Lucia</u></b>            Date: <b><i>April 25, 2018</i></b>            Time: <b><u>1:30p.m. (1330 hours)</u></b></p>
<b>E. Evaluation and Comparison of Bids</b>	
<b>ITB 32.1</b>	<p>The currency that shall be used for bid evaluation and comparison purposes to convert all bid prices expressed in various currencies into a single currency is: <b><u>Eastern Caribbean Dollars (XCD)</u></b>            The source of exchange rate shall be: <b><u>Bank of Saint Lucia, Saint Lucia</u></b>            The date for the exchange rate shall be: <b><i>April 11, 2018</i></b></p>

8. Item #8 Invitation to Bids is amended and replaced:

**Original**

**REVISED March 8, 2018**

**Invitation for Bids**

**SAINT LUCIA**

**SAINT LUCIA - SOLAR PV DEMONSTRATION AND SCALE UP Project**

**Grant No.:TF0A1671**

**Contract Title: Supply and Installation of Solar-Photovoltaic (PV) Array for the EU Owen King Hospital (National Hospital)**

**Millennium Highway, Castries, Saint Lucia**

**SLU-PVSOLSYS-GOODS-ICB-01-17**

**Reference No. (as per Procurement Plan): SLU-PVSOLSYS-GOODS-ICB-01-17**

1. The *Saint Lucia* [has received financing from the World Bank toward the cost of the **SAINT LUCIA - SOLAR PV DEMONSTRATION AND SCALE UP Project** and intends to apply part of the proceeds toward payments under the contract for the **Supply and Installation** of Solar-Photovoltaic (PV) Array for the EU Owen King Hospital (National Hospital), Millennium Highway, Castries, Saint Lucia.
2. The *Department of Economic Development Transport and Civil Aviation* now invites sealed bids from eligible bidders for a *Solar PV Systems* with a capacity of 200kW or better using conceptual array plans ranging from 60 cell modules to 72-cell modules with racks *to be installed on four roofs at* EU Owen King Hospital (National Hospital), Millennium Highway, Castries, Saint Lucia; delivery of the equipment should be completed within sixteen weeks and installation completed within six months of contract effectiveness.
3. Bidding will be conducted through the International Competitive Bidding procedures as specified in the World Bank's Guidelines: Procurement of Goods, Works and Non-consulting Services under IBRD Loans and IDA Credits and Grants by World Bank Borrowers" dated January 2011 (and revised July 2014) ("Procurement Guidelines"), and is open to all eligible bidders as defined in the Procurement Guidelines. In addition, please refer to paragraphs 1.6 and 1.7 setting forth the World Bank's policy on conflict of interest.
4. Interested eligible bidders may obtain further information from the Project Coordinator, Solar PV Demonstration And Scale Up Project, Department of Economic Development, Transport and Civil Aviation, email [chmathurin@gosl.gov.lc](mailto:chmathurin@gosl.gov.lc) and inspect the bidding documents during office hours 0900 hours (9:00am) to 1500 hours (3:00 pm) daily from Monday to Friday at the address given below (\*) from December 5, 2017.



5. A complete set of bidding documents in English may be purchased by interested eligible bidders upon the submission of a written application to the address below and upon payment of a nonrefundable fee of United States seventy-five (US\$75.00). The method of payment will be by certified cheque, or telegraphic Bank transfer to Bank of Saint Lucia (Account # 901407495, Swift Code: bosllcllc) payable to the Solar PV Demonstration and Scale up Project. The document will be sent by Courier to bidders overseas.

6. Bids must be delivered to the address below (\*\*) on or before ***April 11, 2018 at 1:00 p.m. (1300hours)***. Electronic bidding *will not* be permitted. Late bids will be rejected. Bids will be publicly opened in the presence of the bidders' designated representatives and anyone who choose to attend at the address below [\*\*\*] on ***April 11, 2018 at 1:30 p.m. (1330 hours)***

7. All bids must be accompanied by a *Bid Security* of United States ten thousand dollars (USD10,000.00)

8. The address (es) referred to above are:

\*The Project Coordinator  
Solar PV Demonstration and Scale up Project.  
*Department of Economic Development Transport and Civil Aviation*  
2<sup>nd</sup> Floor, Finance Administrative Building  
Pointe Seraphine, Castries, Saint Lucia  
Telephone: 758-468-2413  
Fax: 758-453-0417  
Email: [slupcu@gosl.gov.lc](mailto:slupcu@gosl.gov.lc)

\*\*The Secretary (Submission of Bids)  
Central Tenders Board  
Department of Finance  
Finance Administrative Building  
Pointe Seraphine,  
Castries, Saint Lucia

\*\*\*Meeting of the Central Tenders Board  
Central Tenders Board  
Department of Finance  
Finance Administrative Building  
Pointe Seraphine,  
Castries, Saint Lucia

**REVISED April 19, 2018**

## **Invitation for Bids**

### **SAINT LUCIA**

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7. All bids must be accompanied by a *Bid Security* of United States ten thousand dollars (USD10,000.00)

8. The address (es) referred to above are:

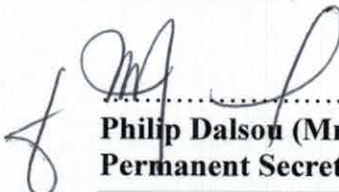
\*The Project Coordinator  
Solar PV Demonstration and Scale up Project.  
*Department of Economic Development Transport and Civil Aviation*  
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Telephone: 758-468-2413  
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\*\*\*Meeting of the Central Tenders Board  
Central Tenders Board  
Department of Finance  
Finance Administrative Building  
Pointe Seraphine,  
Castries, Saint Lucia

Thank you for your interest in this Project.

Yours faithfully

  
Philip Dalson (Mr.)  
Permanent Secretary