

Briefing Session on the RFP for LSS PV Plants 2017-2018

26 May 2016

OUTLINE

RFP comprises of 5 parts:

Part 1: General Information and Instruction to Bidders

Part 2: Project Documents

Part 3: Submission Requirements

Part 4: Appendices

Part 5: Attachments

PART 1

CAPACITY PACKAGES FOR THE RFP 1/2

1. Total Export Capacity for COD in **2017-2018** is 250 MWac in Peninsular and 50 MWac in Sabah/Labuan
2. The RFP is divided into 5 packages as follows:

Package	Range of Capacity for Each Package (MWac)	Total Capacity for Each Package (MWac)
P1 (Peninsular)	1 to 5	20
P2 (Peninsular)	6 to 29	100
P3 (Peninsular)	30 to 50	130
S1 (Sabah/Labuan)	1 to 5	10
S2 (Sabah/Labuan)	6 to 10	40

CAPACITY PACKAGES FOR THE RFP, cont. 2/2

3. Only one RFP Submission is required if a Bidder participates in more than one capacity package.
4. A Bidder can only offer up to 3 Plants with a total capacity not exceeding 50 MWac; however the total capacity shall not exceed 10 MWac if all the Plants are in Sabah/Labuan.
5. If a Bidder offers 3 Plants, ST may choose to accept any one or two or all the 3 Plants or not to accept any plant. Acceptance of any Bid or any Plant is at the sole discretion of ST.

SCHEDULE

Activities	Target Dates
RFP Briefing to Successful RFQ Participants	26 May 2016
Purchase of RFP	26 May to 9 June 2016
RFP view for qualified bidders at ST	26 May to 2 June 2016
Bid Closing Date	23 Sept 2016
Bid Opening Date	26 Sept 2 016
Bid Evaluation Period	28 Sept to 15 Nov 2016
Approval period	15 Nov to Dec 2016
Award of projects to Successful Bidders	Dec 2016
Signing of Project Document	Jan 2017 – Feb 2017

QUERIES

Requests for Clarifications

All requests for clarifications or information shall be made on the RFP Request for Clarifications Form, shown in PART 4 of this RFP. All enquiries in relation to this RFP must be:

- received by ST no later than 12:00 noon on 8 September 2016;
- be sent by email only to lssp@st.gov.my; and
- addressed for the attention of the LSSPV Plants Project Team Secretariat

Late request for clarifications will not be accepted.

SUBMISSION OF OFFERS

Bidders are to submit their Bids in two (2) envelopes or packs. Bidders shall submit their Bid Form and Integrity Pact in one sealed envelope and their Submission of Offer and other forms and documents in another sealed envelope or pack.

Each Bid must be delivered sealed to the Submission Address, and prominently marked in relation to the:

- (a) Bid Form and Integrity Pact

MANDATORY SUBMISSION

“Strictly Private and Confidential

Suruhanjaya Tenaga, Malaysia – Large Scale Solar PV Plants”

- (b) Submission of Offer:

SUBMISSION OF OFFER

“Strictly Private and Confidential

Suruhanjaya Tenaga, Malaysia – Large Scale Solar PV Plants”

BID BOND AND SUBSTITUTE BOND

- A Bid Bond payable in Malaysia shall be furnished with the Bid
- One Bid Bond for each plant. A Bid consists of 3 Plants shall submit 3 separate Bid Bonds.
- The Bid Bonds by Bidders, valid for 6 months,
 - **P1: RM 100,000.00**
 - **P2: RM 500,000.00**
 - **P3: RM 1,000,000.00**
 - **S1: RM 100,000.00**
 - **S2: RM 200,000.00**
- Substitute Bonds by Shortlisted Bidders, valid up to one month after financial close
 - **P1: RM 1,000,000.00**
 - **P2: RM 5,000,000.00**
 - **P3: RM 10,000,000.00**
 - **S1: RM 1,000,000.00**
 - **S2: RM 2,000,000.00**

REJECTION OF BIDS

Failure to comply with any of the requirements below shall constitute grounds for rejection:

- a) The Bid does not contain the information as required under this RFP and in the formats specified in the PART 3 and PART 4, as appropriate;
- b) The Bid is valid for a period of less than the Bid Validity Period;
- c) Power(s)-of-attorney or Resolutions from the Board of Directors of the Bidder authorising its participation in the Bid is not provided;
- d) The particulars in the Submission of Offer submitted does not comply with the requirements and format specified in PART 3 Section 3.0 and Appendix B;

REJECTION OF BIDS, cont.

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- d) Errors in the information, data, calculations, computation of Levelised Price in the Submission of Offer which may affect the acceptability and technical and financial viability of the Project.
- e) The Bid is received by ST after 12.00 noon on the Bid Closing Date; and
- f) There is illegal conduct or attempt to influence ST in its evaluation of a Bid or by any conduct in PART 1 Section 5.17 (Improper Conduct).

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REJECTION ON IMPROPER CONDUCT

- All Qualified Participants/Bidders shall ensure that the bidding is without collusion or fraud.
- Any effort to influence ST, the Government or any of their personnel in the RFP process shall result in rejection of its Bid, and/or disqualification of the Qualified Participant.
- Improper influence includes any corrupt, fraudulent, collusive, or coercive practices in the submission or evaluation process.

PART 2

PROJECT DOCUMENTS

The Project Document which will be entered into by each Successful Bidder include:

- Solar Power Purchase Agreement (SPPA);
- Land Lease Agreement (LLA), where applicable; and
- any other document which is deemed necessary.

PART 3

EXPORT CAPACITY

- The Export Capacity for a Plant shall be not less than 1 MWac but not more than 50 MWac(in Peninsular) or not more than 10 MWac (in Sabah/Labuan)
- A Bidder can offer up to 3 Plants provided that the aggregated capacity is not more than 50MWac; and not more than 10MWac if all Plants are in Sabah/Labuan.
- The capacity offered shall be the Export Capacity. A Bidder shall install the solar PV facilities accordingly to meet the Export Capacity.
 - The PV panels can be mounted on roof –top, ground mounted or mounted on any structure and can be of any technology

LEVELISED PRICE

- A Bidder shall quote a Levelized Price in RM/kWh for each Plant according to the terms and conditions in the SPPA . The selling price quoted shall be firmed throughout the SPPA period of 21 years.
- The Bidders to take note of the Reference Price of RM 0.41/kWh for this RFP.
- ST at its sole discretion, may not accept any offer with the Levelised Price exceeding the Reference Price.

ENERGY PRODUCTION

- **Capacity Factor**

The capacity factor of a solar PV plant calculated according to the formula:

Capacity Factor = [Annual Energy Production of the Plant (kWh)] / [(8760 (hours) × Rated Peak Capacity (kWp))]

Bidder shall declare the annual Capacity Factor of each Plant. The declared annual capacity factor shall not be less than 15% (or the level specified in the SPPA, whichever is higher) . Failure to meet this declared annual Capacity Factor will be penalised under the SPPA.

ENERGY PRODUCTION

- **Shortfall in Energy Production**

Bidder shall declare the annual Energy Production of each Plant. The Energy Production declared shall be the net Energy Export .

The Successful Bidder shall achieve a minimum of not less than 70% (or the level specified in the SPPA, whichever is higher) of the annual quantity declared, failing which it will be penalised under the SPPA .

- **Excess Energy Production**

The Bidder shall not oversize the Plant. Any excess energy supplied to the Utility over the annual quantity stipulated in the SPPA will be paid at RM 0.01/kWh only.

COMPLIANCE WITH STANDARDS, SPECIFICATIONS AND REQUIREMENTS

- PV modules, inverter and power conditioning equipment shall comply with the relevant MS, IEC or other international accepted national standards such as:
 - i. Crystalline Silicon Solar Cell Modules IEC 61215
 - ii. Thin Film Modules IEC 61646
 - iii. PV Module Safety Qualification IEC 61730
 - iv Inverter IEC 62109-1 &2, IEC 61727, IEC 62116 .
 - v. Power Conditioning Units IEC 61683, IEC 62116 – 2008, IEC 60068-2, IEC 61000, IEC 62109-1&2
- All other BOS and electrical equipment shall comply with the relevant MS or IEC standards and approved by ST where applicable.
- Works and operation of the LSSPV Plant and the Interconnection Facilities shall comply with relevant legal and regulatory requirement
- The LSSPV Plant and the Interconnection Facilities must comply with technical, operational and other requirements in the SPPA and the requirements of the Utility, whether such requirements are specified in this RFP or not.

TECHNICAL AND OTHER INFORMATION TO BE SUBMITTED

Technical and other information to be submitted such as:

- Technical data of PV installations such PV modules, inverters
- Information on interconnection etc.
- Right to use of land/structure
- Monthly and annual Energy Production
- Single line diagrams of solar PV systems
- Plant layout plans
- Site plans of Interconnection Facilities
- Operation and maintenance arrangements
- PSS/system checks/connection checks
- Project Schedules
- Information on environmental impacts
- Financial model

EVALUATION CRITERIA

- Evaluation of the Bids will be based on the following criteria:
 - (i) Compliance to Mandatory Submission;
 - Bid Form and Integrity Pact (accept or reject)
 - (ii) Completeness of Submission of Offer (accept or reject):
 - (iii) Compliance with RFP requirements (accept or reject)
 - General Responsiveness (accept or reject)
 - Technical Responsiveness (accept or reject)
 - Financial Responsiveness (accept or reject)
 - (iv) Levelised Price Offer
The Levelised Price offered will be adjusted and a comparative price computed for evaluation purpose only based on the Merit Scores.

MERIT POINTS ADJUSTMENT

- In supporting some of the objectives of the Government, the Levelised Price offered will be adjusted and a comparative price computed for evaluation purpose based on the Merit Scores

- **Comparative Price of a Bid =**

$$\text{Levelised Price Offered} \times \frac{(100 - \text{Total Merit Score})}{100}$$

- The comparative price will be used for evaluation purpose only. The higher the total merit score, the more competitive the Bid

MERIT SCORE MATRIX

No.	Merit Point Criteria	Maximum Merit Points	Scores			Remark
			PLANT A	PLANT B	PLANT C	
1.	Levelised Price (LP) Offered (Base Value)	LP	LP	LP	LP	
2.	<p>(a) For Peninsular and Sabah/Labuan</p> <p>(i) 1 MW to 5 MW Connection at ≤ 11 kV; or</p> <p>(ii) 6MW to 29MW: Connection at ≤ 33 kV</p> <p>(b) For Sabah/Labuan Only Project at East Coast of Sabah</p>	<p>+1</p> <p>+1</p>				<p>(a) Smaller capacity with connection at lower voltage is preferred</p> <p>(b) Additional point for projects at East Coast of Sabah</p>
3.	<p>(a) Project site on Bidders existing land/structure; or</p> <p>(b) Project site on land with no/little economic value such as land filled site, deserted mining land, pond etc.</p> <p>(c) The land under the solar PV panels is also used for other economic activities.</p>	+ 1				Bidder must substantiate with proof of the current land use
4.	100% locally manufactured/assembled PV modules or inverters	+1				
5.	Project for the benefits of community services or public amenities such as place of worship, non-profit welfare service, education institution, stadium etc	+2				
6.	Total 1 Merit Score	6 (Sabah/Labuan) 5 (Peninsular)				
7.	Comparative Price					

PART 4

APPENDICES

Appendix A: Bid Form

Appendix B: Submission of Offer

Appendix C: Bid Bond Form

Appendix D: Request for Clarification Form

Appendix E: Integrity Pact

Appendix F: Confirmation on Conforming to RFP

Appendix G: Information for Financial Analysis

EXTRACT FROM BID FORM

Plant Name/Location	Installed Capacity MWp at Each Site	Interconnection Point (Name of Substation)	Aggregate Export Capacity (MWac)	Aggregate Declared Annual Energy Production (Export Energy) (MWh)	Levelised Price (RM/kWh)
PLANT A		Connection Point A - Substation A			
Site 1					
Site 2	if relevant				
Site 3	if relevant				
PLANT B (if relevant)		Connection Point B – Substation B			
Site 1					
Site 2	if relevant				
Site 3	if relevant				
PLANT C (if relevant)		Connection Point C – Substation C			
Site 1					
Site 2	if relevant				
Site 3	if relevant				
			Total:	Total:	-

EXTRACT FROM SUBMISSION OF OFFER FORM

Plant Name/ Location	Installed Capacity MWp at Each Site	Interconnection Point (Name of Substation)	Aggregated PV Peak Capacity (MWp)	Aggregated Export Capacity (MWac)	Commercial Operation Date (dd/mm/yyyy)
PLANT A		Connection Point A- Substation A			
Site 1					
Site 2	if relevant				
Site 3	if relevant				
PLANT B (if relevant)		Connection Point B - Substation B			
Site 1					
Site 2	if relevant				
Site 3	if relevant				
PLANT C (if relevant)		Connection Point C – Substation C			
Site 1					
Site 2	if relevant				
Site 3	if relevant				

PART 5

ATTACHMENTS

Attachment 1: Evaluation Criteria

Eg. including

- Bid evaluation criteria
- Compliance on Mandatory table
- Completeness of Submission table
- Compliance to RFP requirement
- Technical and Financial responsiveness

Attachment 2: SPPA

DOCUMENT

RFP can be viewed and/or purchased:

Address: Suruhanjaya Tenaga
12 Jalan Tun Hussein, Precinct 2
62100 Putrajaya

OR Suruhanjaya Tenaga office in Kota
Kinabalu

Price : RM2,000/-
Bank draft to “Suruhanjaya Tenaga”

Terima Kasih