

PROJECT: SOLAR PV POWER SYSTEM AT MAIN BUILDING (RE-ADVERTISEMENT)

QUERIES/CLARIFICATIONS RAISED DURING THE PRE-BID CONFERENCE:

	Query/Clarifications	TWG/BAC Reply
1	What document can you provide us regarding the structural integrity of the existing building? This will serve as a reference.	The result of the latest structural evaluation and analysis is available for viewing, analysis, and evaluation by your structural engineer at the Engineering Office, 2 nd floor SSS Main building. You may scan the portion of the document needed for the structural assessment. Our engineers will answer clarification therein. You may coordinate with the BAC Sec on this.
2	Can you also provide all the bidders who purchase the bidding documents, on the structural integrity of the existing building? We might need that to prepare the documents so we can show the correct costing and the scope of work needed.	For this relevant inquiry with item 1, please refer to the above response.
3	Regarding the water proofing, will there be a leak test to be provided to the bidders? It might be too tedious if every bidder conducts their leak test. We can also include the cost of the project if waterproofing is necessary. If the framing system is non-penetrating, do we still need to do the waterproofing?	No leak test is available to be provided to the bidders. The existing waterproofing is functioning efficiently and there are no leaks therein. The affected portions of the mounting pedestal or frames of the Solar PV system will have to be applied with the same type of existing waterproofing materials, selected waterproof testing of the affected portions is mandatory. The ballast method of securing the solar PV system anchorage is not allowed due to added load. It is not strong enough to withstand the required wind load.
4	Are all bidders required to have an office inside Quezon City? Or bidders who have an office outside of Quezon City can also join?	No. Yes, Office location is not a ground for disqualification to participate in the bidding of this project.
5	Can we conduct an ocular visit?	Yes. It is required to clarify issues that may be raised on site. EFMD representatives will assist your technical team
6	Regarding the electrical plans, it was mentioned that the bidder needs to provide the projected savings/investment recovery, may	The current energy rate with Meralco is at ₱10.10/kw, you use this as reference value in your design calculation,

	we know the current rate of the facility?	
7	On the technical requirement, it was mentioned that 260kW peak should be delivered and measured by meters. The 260 kW peak is the system capacity and not the output.	The 260kWp refers to the actual measured power capacity at peak load. In case the measured output is not attained, additional PV panel must be provided to meet the required demand capacity.
8	Do we still need to follow the zero export? It was not mentioned in the bidding document.	Yes. The project covers the supply, delivery, and installation of Solar PV Power System on the Roof Deck of the Main Office Buildings (Entire roof deck at of Main Building and Partial area on top of 2 nd floor roof deck, north wing) with the total capacity of 260kWp (minimum) using Monocrystalline PV Panel and Microinverters with built-in rapid shutdown device, remote monitoring system, grid-tied configuration with zero export device and with provisions for future battery installation. This amends Section V. SCC under GCC Clause item 1. under I General Requirements
9	Regarding the micro inverter, can we use other inverters instead?	No. We prefer the use of a micro-inverter since it is the requirement specified in the Technical Specifications
10	May we be clarified on the use of other inverters instead of the micro inverter?	No. The micro inverter is the one approved in the overboard and the basis of our market study. Thus, arriving at our ABC.
11	Since we are using a transformer meaning that a high voltage is required, do you think it is better to use an extreme high voltage inverter rather than a micro-inverter?	The system installation will be on the roof deck and the tapping line is on the ground floor, 52 meters high. The micro inverter is the ideal one to use based on our design and the switch gear floor from the Meralco side is 480v.
12	Regarding the timeline of 150 calendar days since we have structural analysis, when would day 1 start? Is it before the structural analysis or after?	The day one (1) will start upon receipt of NTP and signed contract. For Phase A (Structural Analysis) – completion date is within 30 calendar days. For Phase B (Project Implementation) – completion date is within 150 calendar days. This amends Section VI - Schedule of Requirements
13	After the structural analysis, and we deemed that a retrofit should take	Yes, we can suspend the implementation temporarily to accommodate the

place, will the 150-calendar day be suspended?	retrofitting. Other alternative would be to reduce the capacity of what our roof deck can carry.
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WRITTEN QUERIES:

	Query/Clarifications	TWG/BAC Reply
1	<p>1. Is it possible to relocate the transformer and Solar PV distribution board on the roof instead of the ATS room? This is to reduce the size homerun cable (@ 230V) and close the Envoy as much as possible to the micro-inverters.</p>	<p>No. We prefer that the transformer should be installed/placed inside the Low Voltage Switchgear, (LVSG) room at power Substation No.1</p>
2	<p>2. Kindly check the photo below for verification.</p> <p><small>Note: The PV system shall have an initial power rating of 260 kWp (min.) with grid-tied configuration (connected to the utility's normal power system)</small></p> <p><small>Notes:</small></p> <ol style="list-style-type: none"> 1. Any bid exceeding the P 20,542,543,320 shall not be accepted and shall be declared as disqualified 2. Fill up all required items/field in the bid breakdown. Failure to indicate any of the following shall mean outright disqualification since bid is considered Non-Responsive. <ul style="list-style-type: none"> • If the item is given for free, indicate dash (-), zero (0) or free • If the item is not applicable, indicate N/A 3. All documents shall be signed and each and every page thereof by the duly authorized representative/s of the Bidder. 4. Bid proposal must be inclusive of all applicable taxes. 5. Warranty requirement is at no cost to SSS. 	<p>The approved budget of the contract, (ABC) is P20,580,343.00.</p> <p style="text-align: center; margin-top: 20px;">This amends Form 02 Price Schedule(s)/Bid Breakdown.</p>
3	<p>Is there a requirement of the zero-export device or do we need to include it in our design and proposal?</p> <p style="margin-top: 10px;">It was not mentioned in the TOR</p>	<p>Yes.</p> <p style="margin-top: 20px;">The project covers the supply, delivery, and installation of Solar PV Power System on the Roof Deck of the Main Office Buildings (Entire roof deck at of Main Building and Partial area on top of 2nd floor roof deck, north wing) with the total capacity of 260kWp (minimum) using Monocrystalline PV Panel and Microinverters with built-in rapid shutdown device, remote monitoring system, grid-tied configuration with zero export device and with provisions for future battery installation.</p> <p style="margin-top: 20px;">This amends Section V. SCC under GCC Clause item 1. under I General Requirements</p>
4	<p>May we clarify the required system capacity and output. It's a bit confusing if we're using 260kWp this means this is DC not AC. The 260kWp (minimum requirement) is this your required "system capacity" or "power output" as per the Bid Documents/TOR. If it is the power output what is the AC/DC ratio? If we</p>	<p>The 260kWp refers to the actual measured power capacity at peak load. In case the measured output is not attained, additional PV panel must be provided to meet the required demand capacity.</p>

	will based it on a standard of 1.2 AC/DC, the power system capacity should be roughly 325kWp (DC) in order to meet the required 260kW power output (AC).	
5	<p>What if the available space mentioned where the Solar Panel will be installed is lower than the minimum system capacity (260kWp), are we allowed to propose based on what will fit to area/ space allotted as per below provision?</p> <p>2. The PV system shall be sized to fit within the available roof-deck areas, with allowance for maintenance access, ventilation, the solar irradiation analysis, and performance evaluation measurements must be conducted and presented with geotechnical capacities determination. Including the assessment of the Roof deck structural integrity, proposed building load, electrical service requirements.</p>	Yes, technical details will be discussed with reference to whatever findings that may be realized during the project implementation and subject to corresponding amendment to orders as may be applicable.
6	<p>May we request the following:</p> <ul style="list-style-type: none"> • Single Line Diagram (SLD) • As-built plans • Structural plans 	Please refer to Annex A1 and A2.
7	Can we use multiple input of micro inverter? The technical specification is only for 1:1 (panel: microinverter) ratio.	No.
8	Can we request an extension of submission of the bid proposal from 08 February 2024 to 15 February 2024 instead?	Yes, the submission and opening of bids will be on 22 February 2024.
9	For the terms of payment can we propose with down payment/ mobilization of 15% of the contract value (per RA 9184, progress billing and instead of 5% retention will just issue a warranty bond after the testing and commissioning and acceptance of the system.	No.
10	May we request the copy of your Meralco billing or kWhr rate to be used as reference on the simulation of projected output vs projected savings.	The current energy rate at ₱10.10/kWh