

Technical Specifications

Item	Specification	Statement of Compliance	Annex
<p><i>[Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. 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 Bidder's 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 applicable laws and issuances.]</i></p>			
LOT 1: SOLAR PV POWER SYSTEM AT BACOLOD BUILDING 29kWp min. (Micro Inverter type)			
Phase A	Structural Analysis The scope of work also includes conducting a structural analysis to determine the existing structure's loading capacity and issuing a Certificate of Structural Adequacy/Stability if the roof deck and its supporting structures are found to be structurally sound. If it is necessary to retrofit the building structure, the Contractor’s Structural Engineer shall prepare and submit complete technical documents (retrofitting design and plans, specifications, and cost estimates). The retrofitting of the roof deck and its support structures, which is a separate project shall be outsourced by the SSS. The submission of Certification of Structural Adequacy/Stability or the Technical Documents is proof of completed structural services under Phase “A” of the project. <i>Submit Certificate of Commitment to render and observe the scope of works of the structural analysis services.</i>	comply	
Phase B			
1.	Design/computation showing the system capacity, single line diagram, quantity of Solar panels, Micro inverters, circuit protection devices and online monitoring devices, projected savings/investment recovery. Note: The bidder must submit design of PV system and shall have an initial power rating of 29 kWp (min.) with net metering as per design submitted.		



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	Below 29kWp will be ground for disqualification.		
	Bidders must submit the following sub-items:		
	<i>Proposed designed plans signed by licensed Electrical Engineer</i>		
	<i>Projected savings/investment recovery or tabulated calculations energy production and/or graphical presentation of savings for 12-year period signed by a Licensed Electrical Engineer.</i>		
2.	Solar PV modules <ul style="list-style-type: none"> • Cell type: Mono-crystalline • Power rating: 480Wp or higher • Guaranteed performance: 25 years (min.) • Performance linear warranty: 25 years (min.) • Product Warranty: 12 years (min.) • Certification and Standards: IEC 61215 and IEC 61730 or approved equivalent Submit brochure/catalogues indicating the requirements		
3.	Inverter (Micro Inverter) Supply, Delivery, and Installation of <u>Micro inverter with built in rapid shutdown.</u> <ul style="list-style-type: none"> • Inverter Peak output power: 450W min. • Nominal voltage: 240V (=/- 10%) • Frequency: 60Hz • Warranty: 25 years • Smart grid ready/Grid Regulation: complies with CA rule 21 or (UL 1741-5A), or IEC61727 or equivalent • Enclosure/Ingress Protection Rating: Class II double-insulated, corrosion resistant polymeric enclosure. NEMA-6 / IP67 • Certification and Standard: UL Listed/IEC/EN or approved equivalent. • Short Circuit current: (25 A min.) Submit brochures/catalogues indicating the above requirements		
4.	Online communication devices - for the monitoring of the system performance and other electromechanical parameters. Submit brochures/catalogues showing - Online communication devices		

Name: _____

Legal capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

A handwritten signature in blue ink, located in the bottom right corner of the page. The signature is stylized and appears to be a cursive name.

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<p>LOT 2: SOLAR PV POWER SYSTEM AT CAGAYAN DE ORO BUILDING 75kWp min. (Micro Inverter type)</p>			
Phase A	<p>Structural Analysis</p> <p>The scope of work also includes conducting a structural analysis to determine the existing structure's loading capacity and issuing a Certificate of Structural Adequacy/Stability if the roof deck and its supporting structures are found to be structurally sound. If it is necessary to retrofit the building structure, the Contractor’s Structural Engineer shall prepare and submit complete technical documents (retrofitting design and plans, specifications, and cost estimates). The retrofitting of the roof deck and its support structures, which is a separate project shall be outsourced by the SSS.</p> <p>The submission of Certification of Structural Adequacy/Stability or the Technical Documents is proof of completed structural services under Phase “A” of the project.</p> <p><i>Submit Certificate of Commitment to render and observe the scope of works of the structural analysis services.</i></p>		
Phase B			
1.	<p>Design/computation showing the system capacity, single line diagram, quantity of Solar panels, Micro inverters, circuit protection devices and online monitoring devices, projected savings/investment recovery.</p> <p>Note:</p>		

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	<p>The bidder must submit design of PV system and shall have an initial power rating of 75 kWp (min.) with net metering as per design submitted.</p> <p>Below 75kWp will be ground for disqualification.</p>		
	<i>Bidders must submit the following sub-items:</i>		
	<i>Proposed designed plans signed by licensed Electrical Engineer</i>		
	<i>Projected savings/investment recovery or tabulated calculations energy production and/or graphical presentation of savings for 12-year period signed by Licensed Electrical Engineer.</i>		
2.	<p>Solar PV modules</p> <ul style="list-style-type: none"> • Cell type: Mono-crystalline • Power rating: 480Wp or higher • Guaranteed performance: 25 years (min.) • Performance linear warranty: 25 years (min.) • Product Warranty: 12 years (min.) • Certification and Standards: IEC 61215 and IEC 61730 or approved equivalent <p><i>Submit brochure/catalogues indicating the requirements</i></p>		
3.	<p>Inverter (Micro Inverter)</p> <p>Supply, Delivery, and Installation of <u>Micro inverter with built in rapid shutdown.</u></p> <ul style="list-style-type: none"> • Inverter Peak output power: 450W min. • Nominal voltage: 240V (=/- 10%) • Frequency: 60Hz • Warranty: 25 years • Smart grid ready/Grid Regulation: complies with CA rule 21 or (UL 1741-5A), or IEC61727 or equivalent • Enclosure/Ingress Protection Rating: Class II double-insulated, corrosion resistant polymeric enclosure. NEMA-6 / IP67 • Certification and Standard: UL Listed/IEC/EN or approved equivalent. • Short Circuit current: (25 A min.) <p><i>Submit brochures/catalogues indicating the above requirements</i></p>		

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4.	Online communication devices - for the monitoring of the system performance and other electromechanical parameters. <i>Submit brochures/catalogues showing - Online communication devices</i>		

Name: _____

Legal capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____



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<p>LOT 3: SOLAR PV POWER SYSTEM AT GENERAL SANTOS BUILDING 60kWp min. (Micro Inverter type)</p>			
<p>Phase A</p>	<p>Structural Analysis</p> <p>Structural Analysis</p> <p>The scope of work also includes conducting a structural analysis to determine the existing structure's loading capacity and issuing a Certificate of Structural Adequacy/Stability if the roof deck and its supporting structures are found to be structurally sound. If it is necessary to retrofit the building structure, the Contractor’s Structural Engineer shall prepare and submit complete technical documents (retrofitting design and plans, specifications, and cost estimates). The retrofitting of the roof deck and its support structures, which is a separate project shall be outsourced by the SSS.</p> <p>The submission of Certification of Structural Adequacy/Stability or the Technical Documents is proof of completed structural services under Phase “A” of the project.</p> <p><i>Submit Certificate of Commitment to render and observe the scope of works of the structural analysis services.</i></p>		
<p>Phase B</p>			
<p>1.</p>	<p>Design/computation showing the system capacity, single line diagram, quantity of Solar panels, Micro inverters, circuit protection devices and online monitoring devices, projected savings/investment recovery.</p> <p>Note:</p>		

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	<p>The bidder must submit design of PV system and shall have an initial power rating of 60 kWp (min.) with net metering as per design submitted.</p> <p>Below 60kWp will be ground for disqualification.</p>		
	<i>Bidders must submit the following sub-items:</i>		
	<i>Proposed designed plans signed by licensed Electrical Engineer</i>		
	<i>Projected savings/investment recovery or tabulated calculations energy production and/or graphical presentation of savings for 12-year period signed by Licensed Electrical Engineer.</i>		
2.	<p>Solar PV modules</p> <ul style="list-style-type: none"> • Cell type: Mono-crystalline • Power rating: 480Wp or higher • Guaranteed performance: 25 years (min.) • Performance linear warranty: 25 years (min.) • Product Warranty: 12 years (min.) • Certification and Standards: IEC 61215 and IEC 61730 or approved equivalent <p><i>Submit brochure/catalogues indicating the requirements</i></p>		
3.	<p>Inverter (Micro Inverter)</p> <p>Supply, Delivery, and Installation of <u>Micro inverter with built in rapid shutdown.</u></p> <ul style="list-style-type: none"> • Inverter Peak output power: 450W min. • Nominal voltage: 240V (=/- 10%) • Frequency: 60Hz • Warranty: 25 years • Smart grid ready/Grid Regulation: complies with CA rule 21 or (UL 1741-5A), or IEC61727 or equivalent • Enclosure/Ingress Protection Rating: Class II double-insulated, corrosion resistant polymeric enclosure. NEMA-6 / IP67 • Certification and Standard: UL Listed/IEC/EN or approved equivalent. • Short Circuit current: (25 A min.) <p><i>Submit brochures/catalogues indicating the above requirements</i></p>		

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4.	Online communication devices - for the monitoring of the system performance and other electromechanical parameters. <i>Submit brochures/catalogues showing - Online communication devices</i>		

Name: _____

Legal capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

