

# Technical Specifications

ItemNo.	Specification	Statement of Compliance	Annex
<p>Bidders must state in the Statement of Compliance below 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 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 <b>ITB Clause 3.1(a)(ii)</b> and/or <b>GCC Clause 2.1(a)(ii)</b>.</p>			
<b>SOLAR PV POWER SYSTEM FOR MAIN BUILDING</b> <b>280kWp. (DC) minimum</b>			
<b>Phase A</b>	<b>Structural Analysis</b>  <i>Submit Certificate of Commitment to render and observe the scope of works of the structural analysis services.</i>		
<b>Phase B</b>			
1.1	<b>Load Capacity: 280kWp in DC (minimum)</b>  Design/computation showing the system capacity, single line diagram, quantity of Solar panels, micro inverters, on-line monitoring devices, detailed wiring system, circuit protection devices, detailed and single line diagrams, mounting system and other proposed plans, projected savings, investment recovery.  Bidders must submit the following sub-items:		
	Proposed plans		
	Technical specifications		
	Design computation, signed by Licensed Electrical Engineer plans showing the above requirements. Capacity must not less than 280kWp in DC		
	Projected savings/investment recovery or tabulated calculations energy production and/or graphical presentation of savings for 12-year period		
1.2	<b>Solar PV modules</b> <ul style="list-style-type: none"> <li>• Cell type: Mono-crystalline, PV module</li> <li>• Power rating: 400Wp or higher</li> <li>• Nominal operating temperature: 40 °C /±2°C (min.)</li> <li>• Load bearing capacity of surface: 5400 Pascal/.0783psi</li> <li>• Guaranteed performance: 25 years, 84.0% or higher</li> <li>• Front Glass: Anti- reflective</li> <li>• Performance linear warranty: 25 years min.</li> <li>• Product Warranty: 12 years min.</li> <li>• Certification and Standards: IEC 61215 and IEC 61730 or approved equivalent</li> </ul>		

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	<i>Submit brochure/catalogues indicating the requirements</i>		
1.3	<p><b>Micro-inverter</b></p> <ul style="list-style-type: none"> <li>• With built-in rapid shutdown</li> <li>• Smart Grid Compatible/Ready</li> <li>• Input Start Voltage- either: 22V/33V/58V/65 VDC, or suitable equivalent with PV Panel/Module, or superior features</li> <li>• Short Circuit current; Either 15A or 25A</li> <li>• Peak output power: 366VA, minimum.</li> <li>• Nominal output voltage: 240V, (+/- 10%) or better</li> <li>• Rated Output Current: 1.45 or 1.88</li> <li>• Frequency: 60Hz</li> <li>• Warranty: 12 years</li> <li>• Enclosure: Class II double-insulated/ corrosion resistant polymeric enclosure/ NEMA 6 / IP67.</li> <li>• Certification and Standard: IEC 62109 or UL 1741-SA or approved equivalent</li> </ul> <p><i>Submit brochure/catalogues indicating the requirements</i></p>		
1.4	<p><b>Isolation Transformer</b></p> <ul style="list-style-type: none"> <li>• Isolation Transformer, Total Capacity minimum of 300kVA per actual voltage rating.</li> </ul> <p><i>Submit brochure/catalogues showing the requirements</i></p>		
1.5	<p><b>Online communication devices for the monitoring of the system performance and other electromechanical parameters.</b></p> <p><i>Submit brochures/catalogues showing the required features</i></p>		

Name: \_\_\_\_\_

Legal capacity: \_\_\_\_\_

Signature: \_\_\_\_\_

Duly authorized to sign the Bid for and behalf of: \_\_\_\_\_

Date: \_\_\_\_\_