Pre-Bid Meeting Clarifications and Responses

Category	Query	Response
Inverter Specifications	The tender document does not clearly specify the capacity and quantities of inverters required. Could you provide detailed information on capacities and quantities for each building?	Details are given in Section 3.1 for each package. Package 1: Islamabad Campus: 300-350 KW Package 2: Gulshan Iqbal Campus: 250 KW Package 3: Abdul Haq Campus: 80 KW
Structure Design, Dimensions and Wind Load	The Bill of Quantities (BOQ) specifies dimensions of girders and C-channels, but technical specifications require wind resistance of 140 km/h. Can dimensions be altered?	Dimensions can be adjusted if necessary to meet wind load requirements. Bidders must justify any deviations with detailed technical documentation. For Package 1: Islamabad Campus
	Specify the front height of the structure above the tile level and tilt angle.	Recommended front height: As per building requirements, but the minimum height from the roof level (lanter) must be 8 feet. Tilt angle: Must be as per committed Annual Production, strength and stability. Adjustments require detailed technical justification.
		For Package 2: Karachi Campuses PV Mount Structure for Rooftop with Installation Hot dip MS / Aluminum or material with more than 15 years of proven life for L2/L3 type standard structure (or as per suitable approved design).
		The mounting structure should be Galvanized, not less than 90 microns (in the case of Hot-dip ASTM compliant). Tilt angle: Must be as per committed Annual Production, strength and stability. Adjustments require detailed technical justification.

	Provide details of materials used for heatproofing, including dimensions and height.	Heatproofing in the Islamabad Campus is 1.5 feet for each building.
Energy Generation Commitment	Specify: Minimum annual energy generation to be guaranteed by the system. Allowed system degradation rate over the years. Reference conditions for energy generation (irradiance, temperature, etc.). Penalties for underperformance relative to guaranteed energy commitment.	Minimum Annual Average Production: Package 1 (Islamabad Campus): 300,000 Units. Package 2 (Gulshan Campus): 340,000 Units. Package 2 (Abdul Haq Campus): 110,000 Units (Affidavit Required) The bidder must provide an affidavit for guaranteed annual energy generation (kWh) for two years. Penalty for underperformance as per GCC Clause 16 (SCC Clause 12).
	Whether periodic performance reporting or third-party verification is required.	Periodic performance reporting is required. Third-party verification may be requested during the Operation and Maintenance (O&M) period.
Generator specifications	Generator specifications, including capacity and operational parameters.	Islamabad Campus: Generator 1: 200 kVA, Generator 2: 100 kVA, Generator 3: 80 kVA, capable of synchronizing with the solar PV system. Gulshan Iqbal Campus: MSC block: 150 kva BSC block: 135 kva, 110 kva (Two generators) Abdul Haq campus
	Must we strictly follow BOQ cable	35 kva (3 generators) Deviations are allowed, provided the bidder
Cable Specifications	sizes, or are adjustments allowed?	justifies them with design calculations and documentation.
	Should deviations be justified with calculations or documentation?	Yes, detailed calculations and technical documentation are required for deviations.
Zero Export device	Required in all three campuses?	Required for restricting export to Grid till installation of Net Metlring. Required for Islamabad Campus only (Package 1)