Clarification and Amendment No.-1

Clarification and Amendment on the Tender Document of **Construction of 7.6 MWp (DC) Solar Photovoltaic Grid Connected Power Plant at Kaptai, Rangamati, Bangladesh on Turnkey Basis (Design, Supply, Installation, Testing and Commissioning including 2 years Warranty Period)**

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
01		Commercial Clarification: Custom Duty & VAT Payment Process	Please clarify whether customs duty and VAT for the permanent plant shall be paid directly by BPDB to the Customs authority, or if the Contractor shall make payment first and be reimbursed within a specified period. Please also confirm whether customs duty and VAT for replacement parts provided during the warranty period shall be borne by BPDB.	As per Tender Document (Vol 1 of 2) Clause No- PCC 65.1 & 65.2 (GCC 65.1 & 65.2). Page No. 136-137.
02		Commercial Clarification: Demurrage Storage Charges	Please confirm who will be responsible for any demurrage, detention or storage charges arising from delayed tax payments or other reasons caused by the Procuring Entity/BPDB.	**As per Tender Document (Vol 1 of 2) PCC Clause No-GCC 39.4 which is-** All payment for clearance charge, storage charge, etc. (excluding CD and AIT & VAT on CIP portion) which are imposed by the relevant agencies of the Government of Bangladesh, relating to the clearance of equipment and materials that will be incorporated in the Plant shall be made by the Contractor., The Contractor is generally responsible for handling customs clearance and paying all clearance and storage charges. Page No. 128.
03		Commercial Clarification: Warehouse for Storage	Please confirm whether there are any warehouses available for the project site, does the contractor need to rent a warehouse to store the project products and materials? Please clarify.	As per Tender Document (Vol 1 of 2) Clause No- TDS (ITT 7.1), PCC (GCC 31.5). Page No. 48-49 and 124.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
04		Commercial Clarification: Letter of Credit Arrangement	Please specify which bank will issue the Letter of Credit for payment to the contractor. and please confirm whether can BPDB/Board will issue an irrevocable letter of credit to replace the current letter of credit? Please clarify.	- Any Scheduled Bank of Bangladesh. -As per Tender Document (Vol 1 of 2) Clause No- PCC (GCC 61.5) & Appendix 1: Terms & Procedure of Payment. Page No.135, 142-146.
05		Commercial Clarification: Delayed Payment Consequences	As no interest is applicable for delayed payments, please confirm whether the Contractor shall be entitled to an extension of time and/or cost compensation for delays caused by BPDB.	As per tender document.
06		Commercial Clarification: Tax and Duty Documentation	Could you please kindly share the official documentation detailing the applicable customs duties and other local taxes for project-related products?	Please refer to the Duty Calculator from the following website: https://bangladeshcustoms.gov.bd/trade_info/duty_calculator
07		Commercial Clarification: Payment Currency	For international bidders, is the overall bid price quoted in US dollars? Please kindly confirm whether all payments can be made through US Dollars, including the local portion?	-As per Schedules of Rates and Prices of the Tender Document (Vol 1 of 2). Page No. 184-195. -For foreign currency please refer to Tender Document (Vol 1 of 2) Clause No- TDS (ITT 27.4). Page No. 54.
08		Commercial Clarification: 8. Schedule No. 1-Plant Supplied from Abroad	Refer to Schedule No. 1 Plant Supplied from Abroad, please confirm whether the unit price, CIP should quote include customs duties, VAT and other taxes etc.	As per Tender Document (Vol 1 of 2) (Price Schedule-1), the price should be quoted excluding customs duties, VAT and other taxes etc. Page No. 185. Please refer to Tender Document (Vol 1 of 2) Clause No- PCC 65.1 & 65.2 (GCC 65.1 & 65.2) For Details. Page No. 136-137.
09		Technical Clarification: Site Information	Site Information - Kindly provide latest architectural drawings, structural drawings, and site layout plans. - Please confirm available installation area and rooftop/parking dimensions. - Is a physical site survey mandatory before bidding?	Please refer to- 1. Attachment-2: Topographical Survey 2. Tender Document Volume 2 of 2 (Part A). 3. Tender Document Volume 1 of 2 Clause No- TDS (ITT 7.1). Page No. 48-49.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
10		Technical Clarification: Electrical System Details	Electrical System Details - Please share existing Single Line Diagram (SLD) of the facility. - Confirm existing transformer capacity, LT/HT panel ratings, and busbar capacities. - What is the available voltage level (400V/11kV/33kV)?	Please refer to tender document (Vol 2 of 2, Part-A) (Annex III, IV), Substation Single Line Diagram. Page No. 166-167.
11		Technical Clarification: SCADA & Monitoring	SCADA & Monitoring - Please confirm required monitoring platform and communication protocol. - Is remote monitoring through SCADA mandatory? - Are weather stations and energy meters required?	-Yes, Remote Monitoring is mandatory. -Yes, Weather station and energy meter is required, -Please refer to Tender Document Volume 2 of 2 (Part A): Section 6.2.12.A7 SCADA System. Page No. 67.
12		Technical Clarification: Testing & Commissioning	Testing & Commissioning -Please confirm required testing procedures and acceptance criteria. -Is third-party inspection required?	-As per Tender Document Volume 2 of 2 (Part A): Section 6.2.13- Test Requirements and Acceptance Criteria, Page No.145. -Pre-delivery Inspection Procedure of the equipment's are written in Section 6.2.12 A: Technical Specifications of Tender Document Volume 2 of 2 (Part A). Page No. 41. -For third-party inspection/testing refer to Tender Document (Vol 1 of 2) PCC Clause No.- GCC 41.2. Page No. 129-130.
13		Technical Clarification: Load Profile & Consumption Data	Load Profile & Consumption Data - Kindly provide at least 12 months electricity bills/load data. - Please confirm daytime and nighttime load profile. - Is export to grid allowed or zero-export operation required?	-Please refer to Tender Document Volume 2 of 2 (Part A), (Annex III, IV) Substation Single Line Diagram. Page No. 166-167. -The Solar Power plant should be Grid-Tied.
14		Technical Clarification: Solar PV System Requirements	Solar PV System Requirements - Are specific module/inverter brands approved or equivalent brands acceptable?	-Tenderer will offer the OEM that qualifies the requirements as per the Volume 2 of 2 Part A, Employers Requirement (**6.2.12.A1** Solar PV Module, **6.2.12.A3** Grid Tied Inverter) &

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
			- Confirm required DC/AC ratio criteria.	Volume 2 of 2 Part B: Schedule and Technical Data Sheet Page No. 5 and 6. -DC:AC ratio = 1.27
15		Technical Clarification: Centralized or Distributed Connection	For the proposed 20 MW Solar PV System, kindly clarify whether the plant shall have a single 33 kV Point of Interconnection (POI) with centralized power evacuation, or whether the system is intended to be connected through multiple distributed 33 kV interconnection/termination points.	Not Applicable
16		Tender Date sheet	Pls provide the excel file and word file which can saving the time	Please refer to- Attachment-1: Tender Document Word Files.
17		ITT 32.2	The tender valid is 150 days, so the bid security shall cover validity of bids plus 28 days?	Yes, as per Tender Document (Vol 1 of 2) Clause No- ITT Clause 35.1 (d). Page No. 28.
18		ITT 18.4	"The nominated subcontractor named shall execute the following specific components of the proposed works," can you share the nominated subcontractors?	As per Tender Document (Vol 1 of 2) Clause No- TDS (ITT 18.4), PCC (GCC 16.1) and Appendix 5. List of Major Items of Plant and Services and List of Approved Subcontractors. Page No. 52, 123, 156.
19			The specific address of the project is recommended to provide the coordinate point.	Please refer to Tender Document Volume 2 of 2 (Part A), Section-6.2.1 Location of the Solar Power Plant, Page No.14.
20			If available, it is recommended to provide the project topographic map, and site plan.	Please refer to- Attachment-2: Topographical Survey.
21			Is there a geological survey report?	Please refer to- Attachment-3: Soil Test Report.
22			Does this project include external line works? If so, please provide the length of the external lines.	Please refer to Tender Document Volume 2 of 2 (Part A), Section 6.2.12.A12- Power Evacuation. Page No.105.
23			Is land appropriation necessary for the power line from solar plant to interconnecting sub-station?	Not required

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
24			The Tenderer is advised to submit his offer for fixed tracking system of module mounting structures along with guaranteed energy output from the solar system. The question is: In the BOQ list, the design is based on the fixed mounting racks. Should the price for this tracking rack be quoted separately for this item, or should it be included in the quotation and two quotations be provided?	-The project will be built using a fixed-tilt (zero-tracking) PV module mounting structure. The Tenderer shall provide the guaranteed energy output (MWh) for this fixed-tilt (zero-tracking) mounting structure. -As per Schedules of Rates and Prices of the Tender Document (Vol 1 of 2). Page No. 185-194.
25		SCADA System with SCADA Software/HMI including Central SCADA Server, Integration (with Power Grid Company/NLDC) Equipment and Data Logging Devices (PLC, RTU etc.).	Please specify the communication protocol type (IEC 60870-5-104 /IEC 61850/DNP3) and version number for the connection with NLDC, and whether it accepts the transfer through an OPC gateway?	The RTU/Industrial Gateway shall be compatible with IEC 61850 for connection interface at station level and IEC 60870-5-104 protocol for connection interface with NLDC for SCADA integration. The RTU/Industrial Gateway for SCADA integration with NLDC shall be 02 (two) in number and shall be configured as Master and Hot Standby or one shall report to NLDC (with two communication terminal servers simultaneously through VLAN Network) and another shall report to Backup NLDC (through Routed Network) at the same time each having 02 (two) front-end servers.
26		SCADA System: The monitored systems shall include monitor strings, grid tied inverters, installed weather station and shall comply with the Procuring Entity's requirements.	Please specify the communication interface protocols for strings, inverters, and weather stations (Modbus TCP/RTU? SunSpec?)	The RTU/Industrial Gateway shall be compatible with IEC 61850 for connection interface at station level and IEC 60870-5-104 protocol for connection interface with NLDC for SCADA integration.
27		The Contractor shall be fully responsible for the design, supply, installation, testing, commissioning, configuration, integration, and modification of all hardware and software required to provide SCADA/EMS, tele-control, and tele-metering	The "all hardware and software" range is too broad. Specific software and hardware must be provided.	As per Approved Design.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
		facilities for full integration of the Power Station/Substation with NLDc. This shall include all necessary extensions and modifications to existing stations automation systems and to NLDC Main and Backup Master Stations.		
28		The Contractor shall supply and install all cabling, interfaces, communication equipment, and any additional hardware or software required for complete NLDC integration. Any works, equipment, software, or services not explicitly specified but required for full, reliable, and compliant NLDC integration including database, display, and system modifications at both Main and Backup Master Stations— shall be deemed included in the Contractor's scope without additional cost to the Procuring Entity.	The "any works, equipment, additional hardware and software" range is too broad. It is necessary to clarify.	As per Approved Design.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
29		IEC60870-5-101/IEC60870-5-104-Telecontrol protocols for serial and TCP/IP-based SCADA communication with control centers (NLDC).	Please confirm whether NLDC uses IEC 60870-5-104 (TCP/IP) or -101 (serial port)? Is it acceptable to transfer through an OPC gateway?	The RTU/Industrial Gateway shall be compatible with IEC 61850 for connection interface at station level and IEC 60870-5-104 protocol for connection interface with NLDC for SCADA integration.
30		IEC 60870-5-101 /IEC60870-5-104 Tele-control protocols for serial and TCP/IP-based SCADA communication with control centers (NLDC). IEC 61850 – Substation automation, IED communication, data modeling, and interoperability. IEC 60870-6 (ICCP/TASE.2) - Control center-to-control center data exchange (where applicable). SCADA Functions & System Architecture IEC 61970/IEC 61968 (CIM) Energy Management System (EMS) and enterprise integration models. IEC 62320 Power system control and associated communications (operational	Please clarify whether the aforementioned IEC standards are requirements that must be followed in the design process or whether a third-party certification report is needed?	The listed IEC/IEEE standards in the Tender Document are mandatory design, engineering, manufacturing, communication, cybersecurity, interoperability, testing, and performance compliance standards for the PCMS and SCADA system. Third-party certification reports are not mandatory unless specifically required by NLDC, PGB PLC.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
		requirements). **Cybersecurity** IEC62443 series Cybersecurity for Industrial Automation and Control Systems (IACS). IEC62351 series Security for power system communication protocols (IEC 60870, IEC61850, ICCP). **Time Synchronization** IEC 61850-9-2/ IEEE 1588 (PTP) High-accuracy time synchronization. IRIG-B Time code standard for substation and SCADA systems. Reliability, Testing & Environmental IEC 60068 series Environmental testing (temperature, humidity, vibration). IEC 61000series EMC immunity and emission requirements. IEC 60529 Degrees of protection (IP rating) for enclosures. Performance Monitoring (for Power Plants/Solar Plants) IEC 61724-1/2/3 PV system performance monitoring and data quality (where applicable)		

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
31		Hundreds of attribute/variable/tag	"Please provide a system network architecture diagram, clearly stating: 1) The number of SCADA clients; 2) The detailed allocation of 'hundreds of attribute/variable/tag' including DI/DO/AI/AO/communication attribute/variable/tag." 3) The number and location of servers. If the number of servers and the network architecture diagram cannot be provided, we will design the network architecture during the design phase and give suggestions on the number of servers.	The RTU/Industrial Gateway for SCADA integration with NLDC shall be 02 (two) in number and shall be configured as Master and Hot Standby or one shall report to NLDC (with two communication terminal servers simultaneously through VLAN Network) and another shall report to Backup NLDC (through Routed Network) at the same time each having 02 (two) front-end servers. The RTU/Industrial Gateway shall be configured according to provided signal list from NLDC as per approved SLD of the new station, communication parameter, IP address and station address.
32		Intelligent Electronic Devices (IEDs) Protection relays Programmable Logic Controllers (PLCs) Remote Terminal Units (RTUs) Energy meters, sensors, and transducers	Energy meters, sensors, and transducers need to be verified. Brands, protocols, and versions.	As per tender document.
33		voltage current and frequent, active power, reactive power, apparent power, power factor and energy	Are all these analog quantities complete? Have they all been included in the IO attribute/variable/tag?	The RTU/Industrial Gateway shall be configured according to provided signal list from NLDC as per approved SLD of the new station, communication parameter, IP address and station address.
34		Status of circuit breakers, isolators, switches, transformers, inverters, and auxiliary systems	Are all these digital quantities complete? Have they all been included in the IO attribute/variable/tag?	All electrical, operational, alarm, status, protection, event, metering, and performance parameters necessary for safe, reliable, and compliant operation of the plant shall be included within the Contractor's scope.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
35		Single Line Diagrams (SLD) Process and equipment mimic diagrams Real-time values, status indications, and color-coded alarms	Graph complexity: Does the single-line diagram require automatic topological coloring (automatically deriving the full network color based on the charged state)? This requires additional logic and is not a basic function. Source of drawings: Is there an option to import CAD base drawings/P&ID original drawings, or will we have to redraw them ourselves? Color standards: Does the color code follow the owner's specified standard (such as IEC 60617, enterprise norms)?	The SCADA graphical interfaces including SLDs, mimic diagrams, alarm pages, reports, trends, dashboards, and visualization logic shall be developed by the Contractor during detailed engineering and approved by the Employer/Employer's Engineer. CAD drawings, SLDs, and available engineering documents shall be provided by the Employer where available. The Contractor shall prepare, modify, update, and finalize all SCADA/PCMS graphical displays and engineering drawings as required. Protection functions including overcurrent, differential, distance, earth fault, transformer protection, breaker failure, and interlocking logic shall remain independent of SCADA communication systems. Failure of SCADA communication shall not affect protection trip functionality. Operational interlocks may be implemented through PLC/IED hard logic, SCADA supervisory logic, or both, depending on the system design and operational philosophy approved by the Employer. Automatic topology coloring, advanced visualization logic, alarm hierarchy, dynamic display functions, and intelligent visualization features may be implemented by the Contractor where required for reliable operation and NLDC compliance.
36		2.1The SCADA system shall enable remote supervisory control of plant equipment from the control room and/or remote-control center, including: Opening and closing of circuit breakers and isolators Start/stop and control of plant equipment and auxiliaries Control of active and reactive power with in defined operating limits	Can be achieved	---

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
		2.2All control commands shall be subject to: User access authorization Command validation and confirmation Interlocking and safety logic to prevent mal-operation		
37		3.1The SCADA system shall provide a comprehensive alarm management system to detect, prioritize, and display abnormal operating conditions, faults, and limit violations. 3.2 Alarms shall be: Time-stamped with milli second resolution Categorized by priority acknowledged, logged, and archived 3.3The system shall support Sequence of Events (SOE) recording for post-disturbance analysis and fault investigation.	Millisecond-level time reference source: Does "millisecond resolution" refer to the time recorded by the SCADA system or the SOE time of the underlying devices (IED/PLC)? If it is the former, it is necessary to confirm whether second-level resolution is accepted; if it is the latter, it is necessary to clarify the device's time synchronization scheme. System-wide time synchronization: Do all IEDs, PLCs, RTUs, and SCADA servers adopt unified GPS/Beidou time synchronization? What are the time synchronization accuracy requirements? (Usually, SOE requires ±1ms, and IRIG-B or PTP protocol is needed) SOE record storage: How are the storage requirements for SOE data volume (extremely large millisecond-level events) and capacity? Is a separate SOE server configured?	Realtime Data Acquisition if the Inverter allows. GPS-based synchronized time synchronization system shall be provided for all SCADA, RTU, IED, PLC, Gateway, SOE, and protection devices. Millisecond-resolution SOE recording shall be supported where applicable.
38		1 The SCADA system shall include ahistorical database for long-term storage of operational data, events, and alarms. 4.2The system shall provide trending, analysis,	Storage capacity and retention period - How many years for "long- term storage"? Data sampling frequency? These factors directly affect server configuration and storage capacity calculation. The disk space capacity of the hardware involved in the configuration.	Historical database storage duration, sampling intervals, reporting requirements, redundancy level, server sizing, RAID configuration, and archive capacity shall be proposed by the Contractor during detailed engineering considering long-term operation requirements and future expansion.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
		and data retrieval functions for: Performance assessment Fault analysis and root cause investigation Equipment condition monitoring		
39		information display and fault indication rip	Can be achieved	---
40		The SCADA system shall implement operational interlocks and permissive logic as required for safe plant operation. Protective functions shall remain independent and shall not become promised by the SCADA system.	Where is the interlock implemented? Is the operation interlock handled by the SCADA software layer, or by the PLC/IED hard logic, or by both? Scope of protection independence "Protection functions" specifically refer to what? Over current, instantaneous trip, differential? These should not normally go through the SCADA channel. Fallback in the event of SCADA failure When the SCADA communication is interrupted, are the interlocks between local operation and protection still effective? Please clarify whether the protection trip circuit is completely independent of the SCADA communication network?	SCADA servers, operator stations, historian servers, gateways, firewalls, communication equipment, engineering workstations, and storage systems shall be industrial-grade and suitable for continuous utility-scale power plant operation.
41		6.1The SCADA system shall measure, calculate, and record: Gross generation, net export/import energy, auxiliary consumption Plant availability and operating hours 6.2The system shall compute key performance indicators (KPIs) including:	The SCADA software can only achieve basic management. The EMS part requires the implementation of energy management software.	As per Detailed Design Approval. EPC shall provide modeling parameters for EMS.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
		Plant efficiency and losses Capacity factor and availability Performance Ratio (PR), where applicable		
42		7.1The SCADA system shall be capable of exchanging real-time operational data with the National/Regional Load Dispatch Center (NLDC/RLD) through standard communication protocols. 7.2The system shall support: Active and reactive power control Frequency and voltage regulation Ramp rate control and grid code compliance	AGC/AVC/Ramp Rate control requires closed-loop regulation algorithms, which should be realized by EMS or the unit DCS. SCADA only serves as an instruction transmission channel. Please clarify whether the above control functions are within the scope of this SCADA contract or are handled by other systems? "	AGC, AVC, reactive power control, ramp-rate control, voltage regulation, and grid code compliance functions shall be included within the SCADA/EMS/Plant Controller scope as required for NLDC and Grid Code compliance.
43		8.1The SCADA system shall automatically generate standard and customizable reports including: Daily, monthly, and annual generation reports Alarm and event logs Availability and outage reports 8.2Reports shall be	AVEVA report implementation	As per Tender Document.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
		exportable in standard formats (e.g., PDF, CSV, Excel).		
44		9.1 The SCADA system shall provide role-based access control with multi-level user privileges. 9.2The system shall include: User authentication and password management Audit trails for operator actions Secure communication and network segregation	Network isolation is not a function of SCADA software; it is a function of the network architecture.	As per Tender Document.
45		10.1 The SCADA system shall support secure remote monitoring and diagnostics for operation and maintenance purposes. 10.2 The system shall facilitate predictive and preventive maintenance to minimize plant downtime and optimize life cycle performance.	Security is not inherent in the software itself. Remote range "Remote" refers to the internal local area network within the factory (such as from the control room to the local station), or through the wide area network via the internet (such as from the headquarters/manufacturer remotely)? The security requirements for these two scenarios are quite different. Access method Taking a VPN dedicated line, or using the public internet with encryption? Or dial-up/4G? Operational authority Are remote personnel only responsible for monitoring and diagnosis, or can they also issue control commands? Generally, critical control is prohibited for remote access. Network security regulations Is the country where the project is located (Southeast Asia) prohibiting or restricting cross-border remote access to the power	The RTU/Industrial Gateway for SCADA integration with NLDC shall be 02 (two) in number and shall be configured as Master and Hot Standby or one shall report to NLDC (with two communication terminal server simultaneously through VLAN Network) and another shall report to Backup NLDC (through Routed Network) at the same time each having 02 (two) front-end servers through OPGW.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
			monitoring system? SCADA can achieve basic functions such as data collection, trend display, and timed reminders. Predictive analysis (using AI algorithms) requires integration with AVEVA APM or a third-party platform. Please specify the specific depth requirements for 'predictive maintenance'.	Prediction based on Weather Report, Weather Station Data, Sensors output etc. AVEVA APM is okay in this case if can be integrated with the existing system.
46		11.Reliability and Availability 11.1The SCADA system architecture shall be modular, scalable, and redundant, ensuring high availability and fault tolerance. 11.2 Failure of any single component shall not result in total system failure.	Redundancy scope "Any single component" refers to full redundancy of servers, networks, and communications, or partial redundancy? Full redundancy is very costly. Switching time How long does the fault switching require? Seconds? Milliseconds? Affects the architecture design. Does the current system's compatibility and redundant architecture match that of the existing old system? The old system might not support dual channels.	Full redundancy is required.
47		To be confirmed by the employer.	"Please clarify whether the historical database will use SQL Server Standard (requiring an authorization) or SQL Server Express (free, with a 10GB limit). If the data volume is large or long-term storage is needed, it is recommended to use the Standard version. Is the authorization fee listed separately?"	As per Detailed Design Approval and Standard Practice.
48		2. System Security The SCADA shall be designed in accordance to IEC61850 or equivalent Standard. For security reason shall log-in and log-out events shall be logged in the event list. All user	Service life: 25 years. The software cannot guarantee support for 25 years. Free upgrades: Major version upgrades and hardware replacements are not free. Spares: 25 years. Does this refer to hardware?	As per Tender Document

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
		changes and modifications to the system as well as parameter and program modifications shall be logged with the exact time and operators' assignment in the event list too. It shall be possible to print this information. 3.Performance and Reliability All equipment shall be of high quality and reliability. The overall system availability of the SCADA shall be 99% or higher. Loss of monitoring data shall be avoided by means of redundant hard disk drives or RAIDs and an appropriate automatically operating back up technology for removable media. All equipment shall be protected against cyber-attacks and shall be certified by CE signs for operational safety. The SCADA-System shall have a minimum life time of 25years.		

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
		4.Software Requirements The SCADA shall be based on standard proven firmware and software. There shall be references of successful installation and operation of the used software and hardware available. The software engineering tool shall be provided to configure, set up and modify the data acquisition, data processing and database system components. The software application shall include facilities to perform programmable logic functions. The system shall have monitoring and self-diagnostics features for both hardware and software. The system shall provide a solution that needs to be flexible for Procuring Entity's requirements in terms of asset management and O&M supervision. The system shall allow for individual reporting or consolidated reports by portfolio Portfolio can be considered as a cluster of		

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
		plants defined by the Procuring Entity. The system shall display all the required parameters per asset management individually of clustered in portfolio. The parameters indicated shall include, but not be limited to performance ratio, system availability, insolation and exported energy. A licensed software copy required for the proposed system shall be provided. The latest proven antivirus software shall be installed in the SCADA. All logins to the system shall be password protected Data transmission via public internet shall be encrypted. 5. Spare Parts and Upgrades The Contractor shall guarantee that spare parts shall be available during the entire Design Life. The Contractor shall ensure the availability of firm ware and software upgrades are free of		

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
		charge for the lifetime of the system.		
49		All stations shall be connected to the SCADA system and shall be made available in the SCADA to download collected weather data. The meteorological measurement station is connected to SCADA system via 485 cable.	"Please confirm the communication protocol of the meteorological station (Modbus RTU? Special protocol?) and the register address table. If it is a private protocol, a protocol conversion gateway is required."	Modbus RTU. Kipp & Zonen, RainWise, or equivalent weather stations with built-in protocol compatibility for gateway input may be used.
50		To be confirmed by the Employer	"Please clarify the requirements for Web client access: 1) The number of concurrent accesses; 2) The access scope (local area network/internet); 3) The functional permissions (read-only/control)."	As per Detailed Design Approval.
51		Please have the customer confirm the specifications of the server.	"Please provide the server configuration list in the tender documents. We will calculate and provide suggestions on the recommended configuration and the number of servers based on the attribute/variable/tag value scale, redundancy requirements, and the retention period of historical data."	The RTU/Industrial Gateway shall be configured according to provided signal list from NLDC as per approved SLD of the new station, communication parameter, IP address and station address.
52		Are the SCADA screens, alarms, and reports required to be in the local language?	Please confirm.	No, should be in English.
53		For systems that need to be integrated into the SCADA software, provide the system name, architecture form, functions, and version.	Please confirm.	The SCADA/EMS system of NLDC is based on "e-terra platform" developed by AREVA T & D (Now owned by GE).

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
54			What are the number of attribute/variable/tag in the real-time historical database, and which attribute/variable/tag need to be stored in the real-time historical database?	The RTU/Industrial Gateway shall be configured according to provided signal list from NLDC as per approved SLD of the new station, communication parameter, IP address and station address.
55			How many attribute/variable/tag in the reports need to be included?	The RTU/Industrial Gateway shall be configured according to provided signal list from NLDC as per approved SLD of the new station, communication parameter, IP address and station address.
56		Schedule of rates and prices. Volume 1 of 2 4(d) Auxiliary Transformer 11/0.4kV, 250kVA, Auxiliary power supply panel, Station Transformer, complete in all respect.	Considering this type of photovoltaic project, the calculated capacity seems to be too large. Could it be optimized as 33KV/0.4kV, with a capacity of 30kVA?	As per tender document.
57		6.2.16.1 spare Parts and Consumables During Defect Liability Period Inverters: 7.5% of installed units	Can the ratio of spare inverter be revised as 3%?	As per tender document.
58		Field suitability studies (including flood risk studies, other limitation studies, etc.)	The red line of the site area is missing, the site conditions (topography of the site area, surrounding river conditions, etc.) and data are not hydro-meteorological available for compilation.	Please refer to- Attachment-1: Tender Document Word Files. Attachment-2: Topographical Survey. Attachment-3: Soil Test Report. Attachment-4: Location Map.
59		General layout of the power station	The site red line cad drawing is missing	Please Refer to- Attachment-2: Topographical Surveys Attachment-4: Location Maps

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
60		Schematic diagram of the grid access point	Need clarification on the content of this drawing? No information about access to the substation was found in the tender documents. It is necessary to provide relevant information about the proposed substation (relative position map to the photovoltaic field area, floor plan, electrical primary and electrical secondary system diagram).	As per tender document. Evacuation Point is Kaptai **33/11 kV switching Substation** **Latitude:** 22.49894, **Longitude:** 92.21636 Please refer to Tender Document Volume 2 of 2 (Part A)- -ANNEX III Substation Single Line Diagram (Page No.166) -6.2.5.13 Electrical Line (Page No. 29) -6.2.12. A12 Power Evacuation (Page No. 105) - ANNEX IV Conceptual Single Line Diagram (Page No.167) Technical Specification Details is given on Tender Document Volume 2 of 2 (Part A). Section-6.2.12.A Technical Specification. Page No. 41.
61		Preliminary layout of the substation	The absence of cad drawings of the site red line, the investigation of the site topography, and the proposed location of the substation involved in substation site selection.	Please refer to- Attachment-2: Topographical Survey. Attachment-4: Location Map.
62		Civil engineering documents (water management system, including calculations, drawings, etc.)	There are a lack of hydro-meteorological data and the conditions for conducting calculations are not available	As per Tender Document. Hydro-meteorological data can be collected from Bangladesh Water Development Board (BWDB).
63		Civil engineering documents (water system drawings showing elevation, drainage and related elements)	There is a lack of topographic mapping data for the site, and on-site elevation measurement is required to determine the elevation.	Please refer to- Attachment-2: Topographical Survey.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
64		Support structure drawings and calculation books	The project has not yet carried out geological exploration work, and it is impossible to determine the characteristics of the strata and the bearing capacity characteristic values, so it is impossible to carry out the calculation of the photovoltaic foundation form and support structure.	Please refer to- Attachment-2: Topographical Survey. Attachment-3: Soil Test Report. Moreover, Bidder may consider design criteria described in Tender Document Volume 2 of 2 (Part A). Detailed Design & Drawing will be submitted by the Tenderer after the contract doing detailed site survey, soil test as per Employers Requirement Section 6, Tender Document Volume 2 of 2 (Part A).
65		Wind load (What wind speed does the support structure need to be able to withstand?)	Please clarify the basis for wind resistance. This wind speed is at the top level for resisting extreme weather events, and the wind resistance extremely strict. requirements are extremely strict.	As described in Tender Document Volume 2 of 2 (Part A)-Steel Structures.
66		Photovoltaic bracket tilt angle	The tender documents stipulate a fixed bracket with an inclination of 23°. Can the inclination Angle be adjusted according to the site conditions?	As per tender document.
67		Preliminary documents such as temporary land use permits, felling permits, grid access permits, and crossing road/river permits	It is suggested to clarify whether the above-mentioned documents have been processed and whether the unprocessed documents are the responsibility of the owner or the contractor? [The tender documents stipulate that the cost of grid connection shall be borne by the contractor]	As per tender document.
68		Design reports and drawings related to the flood control project during the pre-feasibility study, preliminary design and other preparatory work of this project.		Please refer to- 6.2.12.B-15 Drainage System, Page no 119, Tender Document Volume 2 of 2 (Part A). Total Length of the Drainage system will be 5327.85 meters. Topographical Survey is given in Attachment-2.
69		The flood control standards and specifications, hydrological design specifications, and design		As per tender document.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
		specifications for embankment and river course improvement projects adopted in Bangladesh.		
70		1:1000 topographic map of the project area.		Please refer to- Attachment-2: Topographical Survey
71		Temporary buildings and owner's facilities:	Question 1: PCC GCC 31.5 states that "The area required for temporary offices...will be provided by BPDB free of charge", yet Appendix 6 states that "Construction Electricity & Water requirements...shall be done by the contractor". The security office (Security room) is included within the scope of the office building, yet it is also mentioned that Sentry Posts/Watch Towers (2.0 Nos) will be constructed. What is the specific size of the temporary area provided by the owner free of charge? Where is the exact location? Does the owner provide access points for construction electricity/water? If so, how far is it from the red line? If not, what are the requirements for drilling wells and generators? What are the specific location, height, and functional requirements for the "Watch Tower"?	As per tender document and approved detail drawing.
72		Site clearance and land development volume:	Question 2: The tender document mentions "Filling of uneven ground levels, low-lying areas, and existing ponds" and cites an estimated fill volume of 1486.55 cum. However, how many "existing ponds" are there? What are their depths and volumes? This greatly affects the estimation of earthwork balance. Please provide the dimensions, depth, and volume data of the existing ponds. If the actual earthwork volume does not match the estimated 1486.55 cum	As per tender document.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
			in the bidding document, will the price be adjusted based on the actual quantity (Variation)? Or will the contractor bear all risks on their own?	
73		SCADA system brand restrictions:	Question 3: The tender document mentions in TDS (ITT 18.4) that SCADA is mandatorily specified as "Siemens, Germany/ABB, Switzerland/Schneider Electric, France". Is this a soft recommendation or a hard specification? Volume 2 also states "or Equivalent Standard". Is this a mandatory brand specification? If the bidder uses "Approved Equivalent" as an alternative, what kind of supporting materials (such as performance contracts from similar projects, owner's usage certificates) are required to pass the technical review?	As per Tender Document (Vol 1 of 2) Clause No- TDS (ITT 18.4), PCC (GCC 16.1) and Appendix 5. List of Major Items of Plant and Services and List of Approved Subcontractors. Page No. 52, 123, 156.
74		Grid Tied Inverter:	Question 4: The tender documents require the inverter to have an efficiency of 98% (European efficiency) and a protection level of IP66. Additionally, a "Transformerless" topology is specified. However, it is not clear whether the inverter needs to have nighttime SVG (Static Var Generator) functionality, as well as specific curve parameters for low voltage ride-through (LVRT) and high 75voltage ride-through (HVRT). Please provide the specific curve diagrams for LVRT/HVRT required by the Bangladesh Grid Code, as well as the reactive power support response time. Does the inverter need to have SVG functionality during nights to meet the power factor requirements of the grid at night?	As per tender document.
75		Weather Station:	Question 5: The tender document requires "2 sets" of meteorological stations in Chapter 1, but the equipment list describes "Portable Silicon Reference Cell Pyranometer 1 no." (2 sets in total, which should be 2 portable units). And in the technical	- Portable Silicon Reference Cell Pyranometer- 1 no for each meteorological station shall be provided. -As per tender document. -Each meteorological measurement station shall be fully automatic and integrated with the SCADA system.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
			specifications (6.2.12.A11), some sensor quantity descriptions are inconsistent with the list. Please confirm the specific configuration list (including quantity) for a single meteorological station. Must it be fully automatic? Is the portable pyranometer included in the 2 sets of fixed stations or provided separately?	
76		PV Module Washing System and Water Usage:	Question 6: The tender document requires a semi-automatic cleaning system (10 units) However, the water source is not specified in detail. Appendix 6 mentions "Construction Electricity & Water requirement...arrangement shall be done by the contractor", but GCC 31.5 states "water, lighting, sanitary...arranged & maintained by themselves" Is the water source connected from the main pipe network (with water fees paid), or does the contractor need to dig wells for water? What are the water quality requirements (which will affect the cost of the RO reverse osmosis treatment system)? Does "semi-automatic" mean that the contractor needs to provide a mobile cleaning vehicle (including motor-driven brushes and water tanks)?	Please refer to- Volume 2 of 2 Part A Section-6.2.11.1 (Water Supply, Water Drainage and Water Treatment Systems). Page No. 39.
77		Ground elevation and flood control:	Question 7: The tender document requires that the lowest point of the components be 1.5 meters (1500 mm) above the ground. The site is located inside the Karnafuli Hydro Power Station, and the document mentions that the site includes low-lying areas and ponds. Please provide the historical highest flood level (HFL) of the site. Is the height of 1.5 meters above the ground based on the average ground level (FGL) or the once-in-a-century flood level (IFL)? If the historical flood level is high, can the components be further raised (beyond 2 meters)?	-The minimum clearance between the lower edge of the modules and the developed ground level shall be as per tender document Volume 2 of 2 (Part-A): 6.2.12 B-11 Mounting Structure Foundation, Page No. 117. -Historical highest flood level can be collected from Bangladesh Water Development Board (BWDB).

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
78	Volume 2 of 2 (Part A) 6.2.12 B-7 Topographical Survey: Page no: 115	Required Documents by the Tender Site Suitability Study (including flood risk assessment, study on other restrictive conditions, etc.)	Missing Information to be provided The red line of the site boundary, site conditions (such as site topography and landform, surrounding river conditions), as well as hydrometeorological data are missing, making it impossible to carry out the compilation.	Please refer to- Attachment-1: Tender Document Word Files. Attachment-2: Topographical Survey. Attachment-3: Soil Test Report. Attachment-4: Location Map.
79		General Layout of power Station	Lack of CAD drawing of site boundary red line	Please Refer to- Attachment-4: Location Map.
80	**Volume 2 of 2 (Part-A)** -6.2.5.13 Electrical Line (Page-29) -6.2.12.A12 Power Evacuation (Page-105) -ANNEX III Substation Single Line Diagram (Page-166)-	Schematic Diagram of Power Grid Connection Point	Please clarify the content of this drawing? The bidding documents do not contain relevant information regarding the connection to the substation. Please provide relevant documents of the proposed substation for connection (including a relative location diagram of the photovoltaic farm and the substation, a layout plan, primary electrical system diagram, and secondary electrical system diagram).	As per tender document. Evacuation Point is Kaptai 33/11 kV switching Substation Latitude: 22.49894, Longitude: 92.21636. Please refer to Tender Document Volume 2 of 2 (Part A)- -ANNEX III Substation Single Line Diagram (Page-166). -6.2.5.13 Electrical Line (Page-29). -6.2.12. A12 Power Evacuation (Page-105). - ANNEX IV Conceptual Single Line Diagram. Technical Specification Details is given on Tender Document Volume 2 of 2 (Part A).

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
81		Preliminary Layout Drawing of Substation	The CAD drawing of site boundary red line, site topographic survey data and location of the proposed connection substation are missing, which are essential for substation site selection.	As per Tender Document Volume 2 of 2 (Part A), Annex-III and IV. Page No. 166-167.
82		Civil Engineering documents (Water Management System, including calculations, drawings, etc.)	Hydrometeorological data is missing, and the relevant calculations can not be carried out without these information.	As per tender document. Hydro-meteorological data can be collected from Bangladesh Water Development Board (BWDB).
83	Volume 2 of 2 (Part A) **6.2.12 B-7 Topographical Survey:** Page no: 115	Civil Engineering documents (Water system drawings showing elevation, drainage and relevant elements)	Missing topographic survey data of the site. On-site elevation surveying is required to determine the elevations.	Please refer to- Attachment-2: Topographical Survey. Attachment-3: Soil Test Report.
84		Support Structure drawings and calculation report	Geotechnical investigation not been carried out for the project at present, so the stratum characteristic and characteristic bearing capacity cannot be confirmed, and the design of photovoltaic foundation type as well as the calculation of support structure cannot be performed.	Please refer to- Attachment-2: Topographical Survey. Attachment-3: Soil Test Report.
85		Support Structure shall be wind-resistance up to 80 m/s.	Please clarify the basis for the wind resistance requirement. This wind speed represents an extreme level for withstanding severe meteorological events, with extremely stringent wind resistance criteria.	As described in Tender Document Volume 2 of 2 (Part A)-Steel Structures.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
86		Selection of PV modules, inverters and transformers	Are there any local procurement proportion requirements for raw materials, equipment and services? In addition, are there any intended manufacturers? If yes, please provide relevant information.	Tenderer will offer the OEM that qualifies the requirements as per the Volume 2 of 2 Part A, Employers Requirement (**6.2.12.A1** Solar PV Module, **6.2.12.A3** Grid Tied Inverter, **6.2.12.A4 Power Transformer**) & Volume 2 of 2 Part B: Schedule and Technical Data Sheet Page No. 5, 6 & 7-8.
87		Tilt angle of PV supports	The bidding documents specify fixed supports with a tilt angle of 23^{0m}. Is it allowed to adjust the tilt angle according to actual site conditions?	As per tender document.
88		Preliminary documents including temporary land use permit, forest felling permit, power grid connection approval, road/river crossing permit, etc.	Whether these documents have already been obtained, and for those not yet obtained, whether the owner or the contractor will be responsible. [The bidding documents stipulate that grid connection costs are the responsibility of the contractor.]	Land is owned by BPDB. **All costing of NLDC integration of the SCADA system is in the scope of the Tenderer.** Please check 6.2.12.A7 (Page No. 67) & 1.13.8 (Page No.76) of Tender Document Volume 2 of 2 (Part A).
89		pls help to provide the following documents for the dam and flood control	1. Hydrological station and tidal gauge station data for the Karnaphuli River near the project site. 2. Information and design data of existing dikes, revetments, and other structures along the Karnaphuli River and Isakhali Canal around the project area. (Key data required includes the scour depth of the river channel where the PV project is located, which is directly related to the scale of flood protection works for this project.) 3. Design reports and drawings related to flood protection works from previous phases of this project, including the pre-feasibility study and preliminary design. 4. Bangladesh's applicable codes and standards for flood protection, hydrological design, and river training works.	-Information can be collected from Bangladesh Water Development Board (BWDB). -Please refer to Attachment-2: Topographical Survey.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
			5. 1:10,000 topographic maps of the project area.	
90		Qualification Criteria [ITT 13.1 (b)] **Existing Clause:** (i) The Tenderer has successfully completed, as an EPC Contractor, at least one (1) contract of similar nature and complexity of proposed works within the last ten (10) years prior to the Tender submission deadline. The Contract shall have been successful commercial operation for a minimum period of two (2) years. Similar Nature means: For the purpose of this requirement, "Similar Nature" shall mean the design, supply, installation, testing and commissioning of a Ground-mounted Grid connected Solar Photovoltaic Power Plant with a minimum capacity of ....MW(DC)/....MW AC. (ii).....The letter shall contain at least the	**Proposed Amendment:** (ii) The Tenderer has successfully completed, as an EPC Contractor, at least one (1) contract of similar nature and complexity of proposed works within the last ten (10) years prior to the Tender submission deadline. The Contract shall have been successful commercial operation for a minimum period of two (2) years. Similar Nature means: For the purpose of this requirement, "Similar Nature" shall mean the design, supply, installation, testing and commissioning of a Conventional/Fossil fuel Power Plant/Ground-mounted Grid connected Solar Photovoltaic Power Plant with a minimum capacity of MW (DC)/.....MW AC. (ii).....The letter shall contain at least the information of the i) Exact location of the Conventional/Fossil fuel Power Plant or Solar Power System ii) Capacity of the Conventional/Fossil fuel Power Plant or PV Plant iii) each Engine or PV module capacity & model iv) each Alternator or inverter capacity & model.....	As per tender document.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
		information of the i) Exact location of the Solar Power System ii) Capacity of the PV Plant iii) each PV module capacity & model iv) each inverter capacity & model.....		
91	Vol- 1 of 2, Page-185 Schedules of Rates and Prices Schedule No. 1 - Plant (including Mandatory Spare Parts) Supplied from Abroad Sl No. 4 (d)	Auxiliary Transformer 11/0.4 kV 250 kVA, Auxiliary power supply panel, Station Transformer, complete in all respect		11/0.4 kV 250 kVA Auxiliary Transformer/Station Transformer, Auxiliary power supply panel, complete in all respect
92	PCC (GCC 7.1) Page-122-123	The following documents forming the Contract shall be interpreted in the following order of precedence, namely: a. The signed Contract Agreement (Form PG5A-10) on non- judicial stamp; b. Performance Security c. Power of Attorney d. Final Price Schedule		**The clause will be replaced by the following-** The following documents forming the Contract shall be interpreted in the following order of precedence, namely: a. The signed Contract Agreement (Form PG5A-10) on non-judicial stamp; b. Performance Security c. Power of Attorney d. Final Price Schedule e. Minutes of Pre-contract discussion meeting (s) if any, f. Letter of Acceptance of "Notification of Award" by Contractor.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
		e. Vetting from Different Ministries. f. Minutes of Pre-contract discussion meeting (s) if any, g. Letter of Acceptance of "Notification of Award" by Contractor. h. the Notification of Award (PG5A-9); i. Approval of GOB. j. All correspondences between BPDB and the Contractor. k. Tender Document & Addenda (if any); l. Financial Proposal of Contractor; m. Technical Proposal of Contractor.		g. the Notification of Award (PG5A-9); h. Approval of GOB. i. All correspondences between BPDB and the Contractor. j. Tender Document & Addenda (if any); k. Financial Proposal of Contractor; l. Technical Proposal of Contractor.
93		The documents forming the Contract shall be interpreted in the following order of priority: a. The signed Contract Agreement (Form PG5A-10) on non-judicial stamp; b. Performance Security c. Power of Attorney		**The clause will be replaced by the following-** The documents forming the Contract shall be interpreted in the following order of priority: a) The signed Contract Agreement (Form PG5A-10) on non- judicial stamp; b) Performance Security c) Power of Attorney d) Final Price Schedule e) Minutes of Pre-contract discussion meeting (s) if any, f) Letter of Acceptance of "Notification of Award" by Contractor. g) the Notification of Award (PG5A-9); h) Approval of GOB.

SL No	Tender Document Reference	Description in Tender Document	Tenderer's Query	BPDB's Clarification/Amendment on Tender Document
		d. Final Price Schedule e. Vetting from Different Ministries. f. Minutes of Pre-contract discussion meeting (s) if any, g. Letter of Acceptance of "Notification of Award" by Contractor. h. the Notification of Award (PG5A-9); i. Approval of GOB. j. All correspondences between BPDB and the Contractor. k. Tender Document & Addenda (if any); l. Financial Proposal of Contractor; m. Technical Proposal of Contractor		i) All correspondences between BPDB and the Contractor. j) Tender Document & Addenda (if any); k) Financial Proposal of Contractor; l) Technical Proposal of Contractor
94			Request to include locally manufactured solar PV Modules in the scope of work	Tenderer will offer the OEM that qualifies the requirements as per the Volume 2 of 2 Part A, Employers Requirement (**6.2.12.A1** Solar PV Module) & Volume 2 of 2 Part B: Schedule and Technical Data Sheet Page No. 5.
95			Experience in implementation of Rooftop Solar Systems is requested be considered under the qualification criteria.	Please refer to Volume 1 of 2 of Tender Document Clause No-ITT 13.1(b).