



**ASIAN UNIVERSITY
FOR WOMEN**

Request for Proposal (RFP)

**Design, Supply, Installation, Testing & Commissioning of a 240.875 kWp Grid-Connected Net
Metered Solar PV System**

Asian University for Women (AUW), Arefin Nagar Campus
Summary Sheet

Name of the company	Asian University for Women
Procurement Reference Number	Solar/26_27/acdmbldg
Date of issue of the RFP	24 September, 2026
Date and Closing Time for RFP submission	22 nd October, 2026 (12:01PM) (GMT +6)
Quotation submission mail address	tender176@auw.edu.bd
Address for Communication	Asian University for Women 20/A M. M. Ali Road Chattogram 4000, Bangladesh Tel: +880-31-285-4980 Fax: +880-31-285-4988

Bidders are invited to submit their proposals in accordance with the terms outlined in the enclosed Request for Proposal (RFP).

AUW reserves the right to reject any or all offers without providing any reason.

Confidentiality must be strictly maintained. The information provided here should only be used for its intended purpose and scope. By retaining this RFP, you agree to treat all information as confidential.

All communications regarding this Request for Proposal should be directed to AUW, with copies sent to the email addresses listed in the RFP email.

For any further queries, please contact:

- **Primary Point of Contact for RFP Process and Technical Queries:**

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Proposals should be submitted only to the following email: tender176@auw.edu.bd

No other AUW email address should be used in the "To," "CC," or "BCC" fields. Any proposal that violates this instruction may be disqualified.

RFP and Tender Notice

Asian University for Women (AUW) is committed to adhering to the highest standards of financial integrity and management best practices in all aspects of its operations, including RFPs, Tender Notices, and campus construction. We value respect for all, high standards for occupational health and safety, environmental preservation, and equality of men and women as workers and their entitlements for equal wage for equal work. We encourage all our contractors to employ at least 50% women in their workforce. Should anyone notice or otherwise come to know of any practice or incidence of malfeasance, corruption, unlawful or disrespectful treatment or unsafe living or working conditions, avoidable environmental degradation or mismanagement in any form, they may write in full confidentiality to the Secretary of the Board of Trustees. In case of receipt of any such submission with sufficient specificity, an independent agency may investigate the matter and respond to the writer and if appropriate, to the public.

boardsecretary@asian-university.org

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Thank you for helping AUW achieve the highest ethical and management standards.

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Summary of Qualification of Tenderers



The Tenderer must demonstrate the following minimum qualifications and experience:

1. **Legal Status:** The Tenderer shall be a legally registered entity in Bangladesh and shall possess valid company registration/incorporation documents, Trade License, TIN, VAT/BIN registration, and current tax-compliance documentation.
2. **General Experience:** The Tenderer shall have a minimum of **five (5) years of demonstrated experience** in electrical, renewable-energy, solar PV, or related EPC works.
3. **Specific Solar PV Experience:** The Tenderer shall have successfully completed at least **one (1) grid-connected rooftop solar PV project of not less than 200 kWp**, or at least **two (2) similar grid-connected solar PV projects with a combined capacity of not less than 250 kWp**, within the last five (5) years.
4. **Similar Contract Experience:** The Tenderer shall have successfully completed at least **one (1) similar solar PV EPC contract with a minimum contract value of BDT 1.50 crore** within the last five (5) years. Completion certificates or equivalent documentary evidence from the client shall be submitted.
5. **Financial Capacity:** The Tenderer shall demonstrate an average annual turnover of at least **BDT 2.00 crore**, calculated over the best three (3) financial years within the last five (5) years.
6. **Liquid Assets/Credit Facilities:** The Tenderer shall demonstrate access to minimum **BDT 1.00 crore** in liquid assets, working capital, or confirmed credit facilities sufficient to execute the Works.
7. **Contract Performance:** The Tenderer shall have no record of abandonment, termination for default, or material non-performance of contracts within the last **five (5) years**. Pending litigation shall not exceed **15% of the Tenderer's net worth**.
8. **Technical and Professional Capability:** The Tenderer shall demonstrate adequate technical, managerial, and engineering capacity to undertake the complete design, supply, installation, testing, commissioning, regulatory approval, and handover of the proposed solar PV system. The Tenderer shall have access to suitably qualified electrical/solar PV engineers, project management personnel, safety personnel, and skilled installation technicians.
9. **Product and Regulatory Eligibility:** All major equipment proposed for the project shall comply with applicable **SREDA, BSTI, utility, net-metering, and other relevant Bangladesh regulatory requirements** and shall be eligible for the intended grid-connected net-metering application.
10. **Equipment and Resources:** The Tenderer shall demonstrate access to all necessary tools, testing instruments, lifting equipment, installation resources, safety equipment, and other facilities

required for successful execution of the Works, whether owned, leased, hired, or otherwise contractually available.

11. **Site Familiarization:** The Tenderer shall undertake the required site visit and submit a duly signed **site-visit declaration/acknowledgement**, confirming familiarity with the rooftop conditions, existing electrical infrastructure, access arrangements, installation constraints, and other relevant site conditions.
12. **Regulatory and Utility Experience:** The Tenderer shall demonstrate adequate experience in coordinating with relevant authorities and electricity distribution utilities for **design approval, inspection, grid interconnection, net-metering approval, commissioning, and energization** of grid-connected solar PV systems.
13. **Execution Responsibility:** The successful Tenderer shall be fully responsible for the complete turnkey delivery of the Works, including detailed design, engineering, procurement, supply, installation, testing, commissioning, regulatory approvals, training, documentation, warranties, and final handover in accordance with the Contract.

Executive Summary

This RFP invites qualified and experienced solar EPC firms to undertake the **design, supply, installation, testing, commissioning, regulatory approvals, and handover of a 240.875 kWp DC grid-connected rooftop solar PV system** at the Academic Building of the Asian University for Women (AUW) Campus, Arefin Nagar, Chattogram.

The project will be delivered on a **turnkey basis**, including site and structural assessment, detailed electrical and structural design, integration with the existing electrical and diesel-generator systems, complete equipment supply and installation, utility/net-metering approvals, commissioning, staff training, and submission of comprehensive as-built documentation, warranties, and handover records.

Project Implementation Schedule

The successful bidder shall complete the works within the stipulated time frame stated in the Letter of Award. The indicative timeline for implementation is as follows:

- Design submission and approval: within 10 Calendar days from the date of NOA
- Material delivery: within 90 Calendar days from design approval
- Installation: 30 Calendar days from the date of material receipt
- Testing and commissioning: 10 calendar days.
- Total completion period: 140 Calendar days working days from the date of Kick off meeting.

Proposal Evaluation Methodology

All proposals will be evaluated in accordance with AUW procurement procedures and applicable regulations. Evaluation will be conducted based on the following criteria:

- Technical compliance with specifications (40%)
- Relevant experience and qualifications (20%)
- Financial proposal and competitiveness (40%)

The contract will be awarded to the bidder offering the most advantageous proposal, technically compliant and commercially competitive.

Warranty and Post-Installation Support

The Contractor shall provide a comprehensive warranty for all Structured Cabling and Data Center Passive Works for a period of **24 months** from the date of successful system acceptance. The warranty shall cover all materials, workmanship, installation, and integration of the cabling and passive infrastructure, including cables, racks, patch panels, cable management systems, connectors, UPS systems and their associated passive components and infrastructure, raised floor systems, VESDA (Very Early Smoke Detection Apparatus) components, Environmental Monitoring System (EMS) components, electrical wiring systems for the Data Center and UPS distribution, power distribution units (PDUs), cabling pathways and containment systems, and earthing/grounding and bonding systems. Etc. and associated components.

During the warranty period, the Contractor shall be responsible for rectifying any defects in materials or workmanship at no additional cost, repairing or replacing faulty components to restore the system to full operational condition, and ensuring that all repairs or replacements do not compromise the performance, reliability, or integrity of the installed network. Following system acceptance, the Contractor shall provide post-installation support for 12 months, including remote and on-site technical assistance for troubleshooting network issues, preventive maintenance of cabling pathways, connectors, and passive data center infrastructure, provision of updated as-built drawings, labeling, test reports, and operation manuals, as well as timely response to support requests within 24 hours and resolution of critical issues within 48 hours.

Training and Handover

Upon completion of the **240.875 kWp DC grid-connected rooftop solar PV system**, the Contractor shall:

- **Conduct Training:** Provide comprehensive training to AUW's designated personnel covering system operation, monitoring, routine inspection, preventive maintenance, basic troubleshooting, safety procedures, emergency shutdown, and coordination with the existing electrical and diesel-generator systems.
- **Submit Documentation:** Prior to final handover, the Contractor shall furnish, at a minimum:
 - Complete **as-built drawings**, including PV layouts, electrical single-line diagrams, cable routes, equipment locations, protection systems, earthing and lightning protection arrangements.
 - Equipment schedules, technical datasheets, operation and maintenance manuals, and recommended maintenance procedures.

- Test, commissioning, and performance verification reports.
- Warranty and guarantee certificates for all supplied equipment and components.
- Copies of all relevant utility, net-metering, regulatory approvals, inspection certificates, and commissioning records.
- System monitoring credentials and relevant technical documentation.

All training and documentation shall be sufficiently comprehensive to enable AUW personnel to safely operate, monitor, maintain, and manage the solar PV system effectively following handover.

Confidentiality and Compliance

The Contractor shall maintain strict confidentiality of all information, drawings, documents, electrical data, and other materials provided by AUW or generated during execution of the Works and shall use such information solely for the purposes of the Contract.

All Works shall comply with **applicable Bangladesh laws, codes, standards, utility requirements, electrical safety requirements, and the Bangladesh National Building Code (BNBC)**, together with applicable requirements of the relevant electricity distribution utility and net-metering authority.

The Contractor shall be responsible for obtaining all necessary **approvals, permits, clearances, inspections, and regulatory/utility authorizations** required for execution, grid interconnection, net-metering, commissioning, and handover of the system. The Contractor shall also be responsible for implementing appropriate health, safety, environmental, and fire-safety measures throughout the Works and for ensuring that the installation does not compromise the safety or operation of the existing building and electrical infrastructure.

1.1 General Turnkey Responsibility

The Contractor shall provide a complete, safe, compliant and operational grid-connected rooftop solar PV system. The scope includes all design, engineering, coordination, approvals, procurement, transportation, unloading, storage, installation, civil and structural supports, electrical works, protection, metering, monitoring, testing, commissioning, training, documentation, warranties and post-handover support required for full functionality, whether or not every minor accessory is separately identified in the BOQ.

1.2 Site Survey and Design Verification

- Conduct a mandatory site survey before bid submission and record roof dimensions, levels, access constraints, shading, existing services, cable routes, proposed equipment locations, LV panel data, utility meter data, generator interfaces and earthing arrangements.
- Verify roof structural capacity and submit signed structural calculations for modules, mounting frames, ballast or anchors, maintenance loads and wind loads. The design shall prevent damage to the roof, waterproofing and drainage system.
- Prepare an energy-yield assessment using recognized simulation software and state the assumptions for irradiation, temperature losses, soiling, mismatch, inverter efficiency, cable losses, availability and degradation.
- Reconcile the indicated 240.875 kWp target with the proposed module rating and quantity. The supplied BOQ quantity of 340 modules at 710 Wp represents approximately 241.4 kWp nominal DC; the final arrangement shall be optimized and approved without reducing the required performance.
- Coordinate the PV design with the existing LV system, utility requirements, diesel generator, protection settings, lightning protection, fire access, maintenance walkways and the building management and ICT networks where applicable.

1.3 Detailed Engineering Deliverables

- Design basis report, site-survey report and design responsibility matrix.
- Roof layouts showing module tables, orientation, tilt, walkways, setbacks, shading constraints, fire access, drainage and maintenance zones.
- Structural calculations, fixing and mounting details, corrosion-protection system and waterproofing/interface details.
- DC and AC single-line diagrams, string schedules, inverter allocation, combiner diagrams, cable schedules, voltage-drop calculations and short-circuit/protection coordination.
- Earthing, bonding, surge protection and lightning-protection coordination drawings.

- PV-DG controller logic, zero-export logic where required, interlocking, communication architecture and monitoring points list.
- Equipment-room layouts, AC/DC panel details, cable-tray routes, fireman disconnect arrangement, labeling schedule and emergency shutdown procedure.
- Regulatory and utility application documents required for net-metering approval, inspection, agreement and energization.

1.4 Supply and Installation

- Solar PV modules, mounting structure, fasteners, clamps, anchors or ballast, cable-management hardware and roof-protection interfaces.
- Grid-tied inverters, DC combiner boxes, AC combiner panel, isolators, fuses, MCCBs, MCBs, surge-protection devices, meters and all panel accessories.
- PV-DG controller with data logger, irradiation and module-temperature sensor, remote/local monitoring, communication equipment and networking.
- UV-resistant DC cables, AC power cables, protective-earth conductors, glands, lugs, MC4-compatible connectors, cable trays with covers, conduits, sleeves, fire stopping and identification tags.
- Firefighter disconnect switch, emergency shutdown labeling, safety signage, protective rubber matting and required barriers or guards.
- Panel-cleaning water pump, piping, valves, outlets and accessories, coordinated with the available water source and roof drainage.
- All loading, transport, lifting, unloading, storage, scaffolding, access equipment, temporary works, consumables and minor civil works.

1.5 Approvals and Utility Coordination

The Contractor shall prepare, submit, follow up and obtain all approvals within its contractual scope. The system shall comply with the Net Metering Guideline 2025 and the current requirements of SREDA, the Power Division and the relevant distribution utility. The Contractor shall support AUW through the online application, utility site inspection, installation permission, system evaluation, meter/interface requirements and execution of the net-metering agreement. Official process information is available at the Power Division Net Energy Metering portal: <https://nem.powerdivision.gov.bd/>

1.6 Project Management Reporting and Coordination

- Submit a baseline work program in Microsoft Project or Primavera format, supported by a procurement schedule, submittal schedule, manpower plan, cash-flow forecast and testing plan.
- Submit daily reports, weekly look-ahead plans, monthly progress reports, procurement status, material inspection requests, inspection requests, testing records and updated risk registers.

- Attend coordination meetings and interface with AUW, the PMC/Engineer, the building contractor, MEP contractors, the distribution utility and other stakeholders.
- Maintain safe storage, inventory records, protection of delivered equipment and traceability of serial numbers and warranty documents.

1.7 HSE and Protection of Existing Facilities

- Submit a project-specific HSE Plan, method statements, risk assessments and job-safety analyses before work starts.
- Provide trained personnel, fall-protection systems, lifelines, certified scaffolds and lifting equipment, electrical lockout/tagout, fire prevention and weather-monitoring arrangements.
- Protect roof waterproofing, façade, finishes, building services and occupied areas. Any damage caused by the Contractor shall be repaired to AUW's satisfaction at the Contractor's cost.
- Control noise, dust, waste, packaging, oil/chemical use and work-area access. Remove debris and reinstate all affected areas.
- Issue labor identification cards, prohibit workers under 18 years of age, and comply with AUW site rules and applicable labor law.

1.8 Training Handover and Post Installation Support

- Train designated AUW personnel in safe operation, shutdown, restart, monitoring, routine inspection, cleaning, fault response and emergency procedures.
- Submit approved as-built drawings in editable CAD and PDF, final SLDs, string schedules, test reports, commissioning records, utility approvals, net-metering agreement records, serial-number register, warranties and operation and maintenance manuals.
- Provide recommended preventive-maintenance schedules, spare-parts list, supplier contacts, software credentials and data-export procedures.
- Provide technical support during the defects-liability period, with response to critical faults within 24 hours and an agreed corrective-action plan within 48 hours.

1.9 Design Basis

Parameter	Requirement
Target solar PV capacity	240.875 kWp DC, subject to detailed design and approved roof utilization
Indicative PV module	710 Wp monocrystalline, Tier 1 listed and acceptable under the current SREDA product requirements

Parameter	Requirement
Indicative module quantity	340 Nos. as stated in the BOQ; bidder shall reconcile the resulting nominal capacity with the approved target
Inverter configuration	Five 50 kW grid-tied inverters or an approved technically equivalent arrangement
Grid connection	Three-phase, 400 V nominal, 50 Hz, net metering
Installation model	CAPEX turnkey supply and installation
Project interfaces	Existing LV system, utility net meter, diesel generator, fire safety, earthing and lightning protection, ICT/networking, roof waterproofing and access

1.10 Indicative Roof Capacity Schedule

No.	Roof Zone	Approximate Area	Indicative Capacity
1	Level 03 Hallway roof	9,550 sft	85.200 kWp
2	Level 02 planter roof only	3,286 sft	29.163 kWp
3	Level 01 roof	3,000 sft	26.225 kWp
4	Level 03 hallway roof other portion and as-cast area	11,300 sft	100.287 kWp
	Total	27,136 sft	240.875 kWp

The roof schedule is indicative. The bidder shall survey and verify all dimensions, shading, access, maintenance clearances, module spacing, drainage paths, waterproofing interfaces, wind exposure, structural loading, cable routes, and safe working zones before finalizing the design. The approved detailed design shall govern execution.

1.11 Indicative Implementation Sequence

1. Mobilization, site survey, utility-data collection and verification of existing electrical and structural conditions.
2. Detailed design, structural calculations, energy simulation, single-line diagram, string layout, protection study, cable sizing and shop-drawing approval.
3. Regulatory and utility applications, product approvals, material submittals and procurement.
4. Delivery, inspection, roof preparation, mounting works, module installation, DC and AC works, controls, monitoring and system integration.
5. Testing, commissioning, performance verification, utility inspection, net-metering agreement and energization.

6. Training, handover, as-built documentation, warranties, spare parts and commencement of the defects-liability period.

1.12 Key Personnel (Full Time On Site Deployment)

Position	Minimum Qualification	Total Experience	Relevant Experience
Project Manager	BSc in Engineering or equivalent	7 years	5 years; at least two solar/EPC projects
Solar PV Design and Commissioning Engineer	BSc in EEE or equivalent; relevant OEM or PV training	5 years	3 years in grid-tied PV design/commissioning
Electrical Site Engineer	BSc or Diploma in Electrical Engineering	5 years	3 years in LV/solar installations
Structural Engineer	BSc in Civil/Structural Engineering	5 years	3 years in roof/support design
HSE Officer	Graduate or diploma with recognized HSE training	3 years	2 years in construction/electrical works

1.13 Minimum Tools and Test Equipment

- Solar PV analyzer or I-V curve tracer and calibrated irradiance and temperature instruments.
- Insulation-resistance tester, earth-resistance tester, clamp meter, true-RMS multimeter and phase-sequence meter.
- Thermal-imaging camera for modules, connectors, panels and terminations.
- Calibrated torque tools, cable-crimping tools, MC4 tools and cable-pulling equipment.
- Fall-protection equipment, access systems, lifting equipment and all tools required for safe installation.

2. Contractor Responsibilities

The Contractor shall be fully responsible for the complete **design, engineering, supply, installation, testing, commissioning, regulatory approvals, documentation, and handover** of the 240.875 kWp DC grid-connected rooftop solar PV system, including all associated equipment, materials, accessories, protection systems, structures, cabling, monitoring, and ancillary works necessary for a complete, safe, reliable, and operational system.

a. Design and Documentation

The Contractor shall:

- Conduct a detailed site survey and assessment of the proposed rooftop PV installation area, including verification of roof dimensions, structural conditions, access, shading, orientation, available installation area, existing electrical infrastructure, cable routes, and grid interconnection point.
- Prepare detailed engineering designs, calculations, layouts, single-line diagrams (SLDs), equipment schedules, cable schedules, protection schemes, earthing layouts, structural mounting details, and other drawings required for the complete PV system.
- Prepare the PV system design for a total installed DC capacity of **240.875 kWp**, based on the approved module and inverter configuration.
- Carry out detailed PV string sizing, inverter sizing, DC/AC voltage and current calculations, cable sizing, voltage-drop calculations, short-circuit calculations, protection coordination, earthing calculations, and system performance calculations.
- Submit detailed rooftop PV module layout drawings, including module orientation, row spacing, access pathways, maintenance clearances, setbacks, and shading considerations.
- Prepare detailed mounting structure drawings and structural calculations demonstrating adequacy for the proposed rooftop installation, including applicable wind, dead, live, and other imposed loads.
- Prepare detailed DC and AC cable routing layouts, including cable trays, ladders, conduits, supports, glands, terminations, and penetration details.
- Prepare detailed earthing and lightning protection interface drawings where applicable.
- Prepare the complete electrical single-line diagram showing PV modules, string arrangements, DC combiner/protection equipment where applicable, inverters, AC distribution/protection equipment, metering, monitoring, isolation devices, and grid interconnection.
- Prepare detailed shop drawings based on verified site conditions and obtain approval from the Client/Consultant before commencement of installation.
- Submit all calculations, technical datasheets, manufacturer's installation instructions, certificates, test reports, warranties, and other technical documents required for approval.
- Prepare complete as-built drawings and final documentation incorporating all approved site modifications.

b. Supply, Installation, Testing and Commissioning

The Contractor shall supply, install, test, commission, and make fully operational the complete rooftop solar PV system, including but not limited to:

- Solar PV modules with a total installed DC capacity of 240.875 kWp.
- Grid-connected solar PV inverters of suitable capacity and configuration.
- PV mounting structures, rails, clamps, fasteners, brackets, and associated accessories.
- DC cables, connectors, junction boxes, string/array protection equipment, DC isolators, and associated accessories.
- AC cables, cable trays, ladders, conduits, glands, lugs, termination kits, supports, and accessories.
- AC distribution boards/panels and associated circuit breakers, isolators, surge protection devices, protection relays, and metering equipment as required.
- DC and AC surge protection devices and overcurrent protection.
- DC and AC isolators and emergency isolation provisions where required.
- Earthing and bonding systems for PV modules, mounting structures, equipment, and electrical systems.
- Lightning protection interfaces and associated bonding where required by the approved design.

- Solar PV monitoring and data acquisition system, including inverter monitoring, data logger/gateway, communication equipment, and associated software/hardware.
- Energy meters and grid-interconnection metering equipment as required by the utility/grid authority.
- Weatherproof enclosures, junction boxes, cable glands, cable markers, labels, warning signs, and safety signage.
- All necessary roof penetrations, supports, flashing, waterproofing interfaces, and weatherproofing measures associated with the PV installation.
- All other equipment, materials, accessories, and ancillary works required for a complete and operational system.

The Contractor shall include all costs for transportation, unloading, handling, installation, testing, commissioning, regulatory inspection, certification, documentation, and handover within the quoted BOQ rates.

c. Site Assessment and Mobilization

The Contractor shall:

- Conduct a detailed site survey before finalizing the design and installation methodology.
- Verify existing roof conditions, dimensions, levels, structural constraints, access routes, drainage, waterproofing, existing electrical systems, and available grid connection facilities.
- Verify the location and capacity of the proposed grid interconnection point.
- Coordinate with the Client/Consultant and relevant electrical, civil, architectural, and MEP disciplines.
- Mobilize all required manpower, tools, lifting equipment, access equipment, testing instruments, PPE, temporary facilities, and installation resources.
- Ensure that all materials and equipment are safely stored and protected against weather, moisture, physical damage, and unauthorized access.

d. Technical Team Assignment

The Contractor shall assign a suitably qualified project team, including, as applicable:

- Project Manager.
- Electrical/ Solar PV Engineer.
- Site Engineer/Supervisor.
- Structural Engineer for rooftop mounting arrangements.
- Qualified electrical technicians/installers.
- Testing and Commissioning Engineer.
- Safety Officer.

The Contractor shall ensure that personnel responsible for electrical installation, testing, and commissioning are appropriately qualified and experienced.

e. Reporting and Progress Monitoring

The Contractor shall submit and maintain:

- Daily site progress reports.
- Weekly and monthly progress reports.
- Material inspection reports.
- Inspection requests.

- Delivery records and material receiving reports.
- Testing and commissioning records.
- Updated project schedules.
- Site photographs and progress records.
- Final punch-list and rectification records.

3. Testing, Commissioning and Certification

The Contractor shall conduct complete testing and commissioning of the solar PV system in accordance with applicable standards, approved design documents, equipment manufacturer's recommendations, and requirements of the relevant authority/grid utility.

Testing shall include, as applicable:

- Visual inspection of all PV modules, mounting structures, cables, connectors, junction boxes, inverters, panels, and equipment.
- Verification of PV module installation, orientation, alignment, spacing, fixing, and mechanical integrity.
- Verification of string configuration and polarity.
- DC open-circuit voltage measurement.
- DC operating/current measurements as applicable.
- Insulation resistance testing of PV strings and DC circuits.
- Continuity testing of protective earth and bonding conductors.
- Verification of DC cable routing, identification, termination, and polarity.
- Verification of MC4 or equivalent connector compatibility, engagement, and installation.
- Testing of DC isolators and protective devices.
- Testing of AC cable insulation resistance and continuity.
- Verification of AC phase sequence.
- Verification of AC voltage and frequency.
- Testing of AC circuit breakers, isolators, surge protection devices, and other protective equipment.
- Testing and verification of the earthing and bonding system.
- Measurement of earth resistance.
- Verification of mounting structure bonding.
- Functional testing of each inverter.
- Verification of inverter protection functions and alarms.
- Verification of anti-islanding protection and grid synchronization.
- Functional testing of the PV monitoring and data acquisition system.
- Verification of energy meters and monitoring data.
- Verification of system generation and operational performance.
- Verification of emergency shutdown/isolation arrangements where applicable.
- Thermographic inspection of electrical connections where specified or required.
- Performance verification of the completed PV system.

The Contractor shall provide complete test reports and commissioning records for all tests performed.

Any defective, damaged, unsafe, or non-compliant work shall be rectified by the Contractor at its own cost and retested until satisfactory compliance is achieved.

4. Regulatory Approvals and Grid Interconnection

The Contractor shall be responsible for obtaining, coordinating, and supporting all approvals, inspections, permissions, certificates, and clearances required for the lawful installation and grid connection of the solar PV system.

This shall include, as applicable:

- Approval of the PV system design by the Client/Consultant.
- Submission and approval of electrical drawings and SLDs by the relevant authority.
- Coordination with the applicable electricity distribution utility/grid authority.
- Net-metering/grid-interconnection approval where applicable.
- Required electrical inspection and certification.
- Coordination of utility/grid inspection.
- Submission of inverter and equipment certificates required by the relevant authority.
- Submission of protection and interconnection documentation.
- Obtaining approval for energization and grid synchronization where required.
- Completion and submission of all forms, applications, drawings, test reports, certificates, and supporting documents required by the relevant regulatory authority.

The Contractor shall coordinate with the Client throughout the approval process and shall rectify any deficiencies identified by the authorities within the Contractor's scope.

5. Post-Handover Documentation and Training

Upon completion, the Contractor shall:

1. Conduct comprehensive training for the Client's designated personnel covering:
 - System operation.
 - Normal shutdown and startup procedures.
 - Emergency shutdown procedures.
 - Inverter operation and alarms.
 - Monitoring system operation.
 - Basic fault identification.
 - Routine inspection and maintenance.
 - Safety procedures.
2. Submit a complete handover documentation package, including:
 - Approved as-built drawings.
 - Final PV module layout.
 - Final single-line diagram.
 - String configuration and schedule.
 - Inverter schedule.
 - DC and AC cable schedules.
 - Earthing and bonding drawings.
 - Mounting structure drawings.
 - Equipment datasheets.
 - Manufacturer's manuals.
 - Operation and maintenance manuals.
 - Warranty certificates.
 - Factory test certificates where applicable.
 - Installation and commissioning test reports.
 - Electrical test reports.
 - PV performance test results.

- Inverter commissioning reports.
- Earthing test certificates.
- Regulatory approval and inspection documents.
- Grid-interconnection/net-metering documents, where applicable.
- Recommended preventive maintenance schedule.
- Recommended spare parts list.
- List of installed equipment with model and serial numbers.
- Software, monitoring, and access credentials required for operation, handed over securely to the Client.
- Final punch-list and evidence of rectification.

6. Compliance, Safety and Environmental Requirements

The Contractor shall:

- Comply with the Bangladesh National Building Code (BNBC), applicable Bangladesh electrical regulations, relevant utility/grid requirements, and all other applicable local and international standards.
- Comply with applicable IEC standards and manufacturer's installation requirements for PV modules, inverters, cables, protection devices, mounting systems, and associated equipment.
- Obtain all required permits, approvals, inspections, and clearances before energization and operation.
- Implement an appropriate site-specific health and safety plan.
- Provide suitable PPE and fall-protection systems for rooftop work.
- Implement safe working procedures for working at height and around live electrical equipment.
- Provide appropriate barricading, warning signs, access control, and safety signage.
- Ensure safe lifting, transportation, handling, and installation of PV modules and equipment.
- Protect the existing roof, building, electrical systems, and other existing facilities from damage.
- Maintain appropriate fire and electrical safety measures.
- Ensure that no underage labor is employed and issue identification cards to site personnel as required.
- Properly manage construction waste, packaging materials, damaged components, and other waste generated during installation.
- Ensure that all roof penetrations and mounting interfaces are properly sealed and waterproofed.

7. General Conditions

- The Contractor shall prepare detailed shop drawings based on verified site conditions and approved system design.
- Drawings shall include, as applicable:
 - PV module layout.
 - String configuration.
 - Inverter locations.
 - DC and AC cable routing.
 - Cable tray/ladder/conduit layouts.
 - Mounting structure details.
 - Earthing and bonding layouts.
 - Lightning protection interfaces.
 - AC distribution and protection arrangements.
 - Single-line diagrams.
 - Equipment layouts.
 - Monitoring and communication arrangements.
 - Roof access and maintenance pathways.
- All drawings shall be approved by the Client/Consultant before execution.

- The Contractor shall submit a comprehensive execution schedule and implementation plan covering design, approvals, procurement, delivery, installation, testing, commissioning, regulatory inspection, and handover.
- The Contractor shall submit material submittals, including technical datasheets, catalogues, certificates, warranties, test reports, and manufacturer's authorization documents where required.
- All PV modules, inverters, mounting structures, electrical equipment, cables, protection devices, and accessories shall be new, unused, defect-free, and suitable for the intended application.
- All equipment shall be suitable for the environmental conditions at the project site and for rooftop installation.
- The Contractor shall comply with the approved drawings, specifications, manufacturer's installation instructions, and applicable standards.
- Any deviation from approved drawings or specifications shall require prior written approval from the Client/Consultant.
- The Contractor shall provide all temporary works, access arrangements, tools, lifting equipment, testing instruments, scaffolding, safety equipment, and other resources necessary to complete the work.
- All imported and locally sourced materials shall be properly transported, handled, stored, and protected.
- Where specific brands or models are not stated, proposed alternatives shall meet or exceed the specified technical and performance requirements and shall be subject to Client/Consultant approval.
- Any ancillary work necessary for the complete and functional installation of the PV system shall be included in the Contractor's scope, even where such work is not individually identified in the BOQ, provided it is reasonably necessary to achieve the specified system functionality.
- The Contractor shall protect all existing building and electrical infrastructure during the works.
- Any damage caused by the Contractor to existing infrastructure shall be repaired or reinstated at the Contractor's cost.
- All installation, testing, and commissioning shall be carried out by competent and appropriately qualified personnel.
- The Contractor shall submit a Method Statement, Risk Assessment, Inspection and Test Plan (ITP), and detailed Work Program/Gantt Chart prior to commencement.
- The Contractor shall maintain proper records of materials, equipment, serial numbers, warranties, inspections, testing, and commissioning.
- All failed inspections or tests shall be rectified and repeated at the Contractor's cost.
- The Contractor shall provide all required labels, warning signs, circuit identification, equipment identification, and safety signage.
- The Contractor shall ensure that all electrical connections are properly terminated, tightened, insulated, protected, and identified.
- The Contractor shall provide suitable cable management and mechanical protection for all DC and AC cables.
- The Contractor shall ensure adequate separation between DC, AC, communication, and other services where required.
- The Contractor shall ensure that rooftop drainage, access routes, maintenance areas, and other building functions are not adversely affected by the PV installation.
- The Contractor shall maintain confidentiality of Client information, drawings, documents, and project data.

8. Pre-Commissioning Inspection

Before energization, the Contractor shall conduct a complete pre-commissioning inspection covering, as applicable:

- PV module condition, installation, orientation, alignment, and fixing.
- Mounting structure installation and mechanical fixing.
- Verification of module clamps, fasteners, and structural connections.
- Verification of roof protection and waterproofing interfaces.
- DC string identification and labeling.
- Verification of string polarity.
- Verification of DC cable routing, support, protection, and termination.
- Verification of connector installation and compatibility.
- Verification of DC isolators and protection devices.
- Verification of inverter installation and clearances.
- Verification of AC cabling and terminations.
- Verification of AC protection and isolation equipment.
- Verification of earthing and bonding connections.
- Verification of earth continuity.
- Verification of surge protection devices.
- Verification of equipment labeling and warning signs.
- Verification of cable trays, conduits, supports, and penetrations.
- Verification that all equipment is accessible for operation and maintenance.
- Verification that all installation works comply with approved drawings and manufacturer's instructions.
- Confirmation that all outstanding defects have been rectified before energization.

9. Testing and Commissioning Requirements

a. DC PV System Testing

The Contractor shall perform, as applicable:

- Visual inspection.
- String polarity verification.
- Open-circuit voltage measurement.
- Operating current measurement.
- Insulation resistance testing.
- Protective conductor continuity testing.
- Verification of string configuration.
- DC isolator functional testing.
- DC surge protection verification.
- Connector and termination inspection.

b. AC System Testing

The Contractor shall perform:

- Insulation resistance testing.
- Continuity testing.
- Phase sequence verification.
- Voltage verification.
- Frequency verification.

- Circuit breaker and isolator functional testing.
- Surge protection verification.
- Protection system verification.
- AC cable and termination inspection.

c. Inverter Testing

The Contractor shall verify:

- Correct installation and configuration.
- DC input voltage and operating range.
- AC output voltage and frequency.
- Grid synchronization.
- Anti-islanding protection.
- Protective functions and alarms.
- Start-up and shutdown operation.
- Fault and alarm indications.
- Communication with the monitoring system.
- Energy generation and data logging.

d. Earthing and Bonding Testing

The Contractor shall verify:

- Continuity of protective earth conductors.
- Bonding of PV module mounting structures.
- Bonding of exposed conductive parts.
- Earth electrode/system resistance.
- Connection between PV equipment and the building earthing system.
- Compliance with the approved earthing design.

e. Monitoring and Communication Testing

The Contractor shall verify:

- Communication between inverters and monitoring equipment.
- Data logging.
- Real-time generation monitoring.
- Historical energy data.
- Alarm and fault reporting.
- Remote monitoring functionality where included.
- Correct system identification and configuration.

f. System Performance Verification

Following successful commissioning, the Contractor shall verify the operational performance of the complete PV system under available solar conditions and provide commissioning records demonstrating that the system operates in accordance with the approved design.

All test results shall be documented and submitted in both electronic and hard-copy formats where required.

10. Documentation and Compliance

The Contractor shall prepare, maintain, and submit all documentation required for approval, operation, maintenance, regulatory compliance, and handover, including:

Design Documentation

- Site survey report.
- PV system design calculations.
- PV module layout.
- String configuration.
- Inverter sizing calculations.
- DC and AC cable sizing calculations.
- Voltage-drop calculations.
- Protection calculations.
- Earthing calculations.
- Structural calculations for mounting systems.
- Single-line diagrams.
- Equipment schedules.
- Cable schedules.
- Earthing and bonding drawings.
- Mounting structure drawings.
- Monitoring system architecture.

Material and Equipment Documentation

- Manufacturer datasheets.
- Product catalogues.
- Certificates of conformity.
- Factory test certificates where applicable.
- Warranty certificates.
- Manufacturer installation

11. QA/QC Requirements

The Contractor shall implement and maintain QA/QC procedures in accordance with **AUW's Quality Assurance System** and applicable specifications and standards. All materials, workmanship, inspections, testing, and documentation shall comply with the approved requirements. AUW shall have the right to inspect and audit the Contractor's QA/QC activities and require corrective action for any non-conformance.



Section 1. Instructions to Applicants

1. Interpretation 1.1 Throughout this qualification Document:

- (a) the term **“in writing”** means communication written by hand or machine duly signed and includes properly authenticated messages by facsimile or electronic mail;
- (b) if the context so requires, **singular** means plural and vice versa;
- (c) **“day”** means calendar days unless otherwise specified as working days;
- (d) **“Qualification Document”** means the Document provided by the Employer to an Applicant as a basis for preparation of the Application; and
- (e) **“Application”** depending on the context, means an application submitted by an Applicant for Qualification to participate in the subsequent Tenders and to perform the Contract, in response to an Invitation for Qualification.

1.1 Corrupt, Fraudulent, Collusive or Coercive Practices

1.2 It is the Employer’s policy to require that Employer’s staff, as well as Applicants/Tenderers, suppliers, and contractors and their subcontractors observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Authority-

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) **“corrupt practice”** is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
 - (ii) **“fraudulent practice”** is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
 - (iii) **“collusive practice”** is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
 - (iv) **“coercive practice”** is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - (v) **“obstructive practice”** is (aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or (bb) acts intended to materially impede the exercise of the Authority’s inspection and audit rights provided.
- (b) will reject a proposal for award if it determines that the Tenderer recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question;
- (c) will sanction a firm or individual, including declaring ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for, or in executing, a contract.

2. Source of Funds

The Employer will arrange fund towards the cost of the project named in the ADS. The Employer intends to apply a portion of that funds to eligible payments under the contract(s) resulting from the Tendering for which this prequalification is conducted.

3. Eligible Applicants

- 3.1 This Invitation for Qualification is open to all potential Applicants from all countries, except Israel. An Applicant will be eligible if it is a citizen, or is constituted, registered and operates in conformity with the provisions of the laws of that country.
- 3.2 Applicants may be a physical or juridical individual or body of individuals, or company, association or any combination of them in the form of a Joint Venture, Consortium or Association (JVCA) invited to take part in public procurement or seeking to be so invited or submitting an Applicant in response to an Invitation for Qualification.
- 3.3 Applicants shall have the legal capacity to enter into the Contract under the Applicable Law.
- 3.4 Applicants and all parties constituting the Applicant shall not have a Conflict of Interest. Applicants in its own name or its other names or also in the case of its Persons in different names shall not be under a declaration of ineligibility for corrupt, fraudulent, collusive or coercive practices.
- 3.5 Applicants with a poor performance, consistent history of litigation or arbitration awards against it shall not be eligible for Qualification.
- 3.6 Applicants shall not be insolvent, be in receivership, be bankrupt, be in the process of bankruptcy, be not temporarily barred from undertaking business and it shall not be the subject of legal proceedings for any of the foregoing.
- 3.7 Applicants shall have fulfilled its obligations to pay taxes and social security contributions under the provisions of laws and regulations of the country of its origin.
- 3.8 Applicants shall provide such evidence of their continued eligibility satisfactory to the Employer, as the Employer will reasonably request.
- 3.9 Applicants' requirements for eligibility will extend, as applicable, to each JV partner and Specialist Subcontractor proposed by the Applicant.
- 3.10 This Invitation for Qualification is open to all potential Applicants from all countries, except Israel. An Applicant will be eligible if it is a citizen, or is constituted, registered and operates in conformity with the provisions of the laws of that country.
- 3.11 Applicants may be a physical or juridical individual or body of individuals, or company, association or any combination of them in the form of a Joint Venture, Consortium or Association (JVCA) invited to take part in public procurement or seeking to be so invited or submitting an Applicant in response to an Invitation for Qualification.
- 3.12 Applicants shall have the legal capacity to enter into the Contract under the Applicable Law.
- 3.13 Applicants and all parties constituting the Applicant shall not have a Conflict of Interest. Applicants in its own name or its other names or also in the case of its Persons in different names shall not be under a declaration of ineligibility for corrupt, fraudulent, collusive or coercive practices.
- 3.14 Applicants with a poor performance, consistent history of litigation or arbitration awards against it shall not be eligible for Qualification.
- 3.15 Applicants shall not be insolvent, be in receivership, be bankrupt, be in the process of bankruptcy, be not temporarily barred from undertaking business and it shall not be the subject of legal proceedings for any of the foregoing.
- 3.16 Applicants shall have fulfilled its obligations to pay taxes and social security contributions under the provisions of laws and regulations of the country of its origin.
- 3.17 Applicants shall provide such evidence of their continued eligibility satisfactory to the Employer, as the Employer will reasonably request.

- 3.18 Applicants' requirements for eligibility will extend, as applicable, to each JV partner and Specialist Subcontractor proposed by the Applicant.

4. Eligible Materials, Equipment and Associated Services

- 4.1 All materials, equipment and associated services to be supplied under the Contract are from eligible sources, unless their origin is from Israel.
- 4.2 For the purposes of this Clause, "**origin**" means the place where the Materials and Equipment's are mined, grown, cultivated, produced or manufactured or processed, or through manufacturing, processing, or assembly, another commercially recognized new product results that differs substantially in its basic characteristics from its components or the place from which the associated services are supplied.

5. Site Visit

- 5.1 Applicants must visit and examine the Site of Works and its surroundings and obtain, at their own responsibility and expense, all information necessary for preparing the Application, submitting any subsequent Tender, and entering into a contract.
- 5.2 Applicants and any of its personnel or agents will be granted permission by the Employer to enter into its premises and lands for the purpose of such visit, but only upon the express condition that the Applicant, its personnel, and agents will release and indemnify the Employer and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.
- 5.3 The costs of visiting the Site shall be at the Applicants' own expense.

6 Qualification: General Qualification Document

- 6.1 The Sections comprising the Qualification Document are listed below, and should be read in conjunction with any Addendum issued under ITA Clause 11.
- Section 1 Instructions to Applicants (ITA)
 - Section 2 Application Data Sheet (ADS)
 - Section 3 Application Forms
 - Section 4 Scope of Works
- 6.2 Applicants are expected to examine all instructions, forms, terms, and specifications in the Qualification Document as well as in Addendum to Qualification, if any.

7 Clarification of Qualification Document

- 7.1 Applicants requiring any clarification of the qualifications Document shall contact the Employer in writing at the Employer's address indicated in the RFP before **two-third** of the time allowed for preparation and submission of Application elapses.
- 7.2 Non-performance of a contract shall not occur within the last years, prior to the deadline for Application submission based on all information on fully settled disputes or litigation.

8 Litigation History

- 8.1 For the purpose, a fully settled dispute or litigation is one that has been resolved in accordance with the Dispute Resolution Mechanism under the respective contract and where all appeal instances have been exhausted.
- 8.2 For a Joint Venture under ITA Sub Clause 18.1, the precise minimum requirements of Leading Partner and other partners shall be as specified in the ADS.

9 Joint Venture, Consortium or Association (JVCA)

- 9.1 Applicants may participate in the qualification process and subsequent procurement proceedings by forming a Joint Venture, Consortium or Associations (JVCA) or alternately with the intent to enter into such an agreement supported by a Letter of Intent.
- 9.2 The JV agreement, indicating at least the parts of the Works to be executed by the respective partners, shall be legally entered into case-by-case in the Applicant's Leading Partner's country of origin, as specified in the ADS, duly signed by all legally authorized representatives of the Persons who are parties to such agreement.
- 9.3 Applicants, as an alternate to ITA Sub Clause 9.2, may intend to enter into a JV agreement case-by-case in the form of a Letter of Intent along with the proposed agreement, indicating at least the parts of the Works to be executed by the respective partners, duly signed by all partners of the intended JV and authenticated by an authority of the Applicant's Leading Partner's country of origin, as stated in the ADS, with the declaration that the partners will execute the Joint Venture agreement in the event the Applicant, in the first place pre-qualified and then successful in the subsequent Tender.
- 9.4 Applicants shall submit the Letter of Intent and the proposed JV agreement along with the Application.
- 9.5 For a Joint Venture under ITA Sub Clause 9.1, the precise minimum qualification requirements of Leading Partner and other partners shall be as specified in the ADS.
- 9.6 In cases where a JV partner's, personnel capacity, equipment capacity and financial capacity individually fulfils the precise minimum qualifying requirement of that particular component as specified, capacities of such partner(s) in the JV will be combined together for summation to determine the total precise minimum qualifying requirements criterion of that JV as stated under ITA Sub Clause 9.5.
- 9.7 Each partner of the JV shall be jointly and severally liable for the execution of the Contract, all liabilities and ethical and legal obligations in accordance with the Contract terms.
- 9.8 The JV shall nominate a Representative (partner-in-charge) who shall have the authority to conduct all business for and on behalf of any and all the partners of the JV during the tendering process and, in the event the JV is awarded the Contract, during contract execution including the receipt of payments for and on behalf of the JV.
- 9.9 The composition or the constitution of a JV once formed shall not be allowed to be altered prior to signing of the Contract.
- 9.10 Alteration of partners to the composition or constitution at a date later than the signing of the Contract during execution shall be allowed by the Employer only when any of such partners is found to be incompetent or has serious difficulties which may impact the overall implementation of the proposed Works, where the incoming partner shall require to have qualifications higher than that of the outgoing partner.

9.11 Each partner of the JV shall complete the JV Partner Information (Form F3) for submission with the Application.

10 Contents of Application

10.1 The Application prepared by the Applicants shall comprise the following:

- 10.1.1 Application Submission Letter (Form F-1);
- 10.1.2 Applicant Information (Form F-2);
- 10.1.3 documents demonstrating that they are enrolled in the relevant professional or trade organizations registered in their country of origin;
- 10.1.4 written confirmation authorizing the signatory of the Application to commit the Applicant;
- 10.1.5 documents confirming the legal capacity stating that there are no existing orders of any judicial court that prevents either the Applicant or employees of that Applicant subsequently entering into or signing a Contract with the Employer;
- 10.1.6 documents confirming that the Applicant is not insolvent, in receivership, bankrupt or in the process of bankruptcy, temporarily barred from undertaking business and shall not be the subject of legal proceedings for any of the foregoing;
- 10.1.7 documents confirming that all claims, arbitration or other litigation cases have been satisfactorily resolved, and if not, they shall have no serious negative impact on the financial capacity of the Applicant;
- 10.1.8 documents confirming that the Applicant has fulfilled its obligations to pay taxes and social security contributions under the provisions of laws and regulations of its country of origin as a proof of fulfilment of taxation obligations;
- 10.1.9 documents establishing the Applicant's eligibility to perform the contract;
- 10.1.10 documents establishing the origin of all Materials, Equipment and services to be supplied under the Contract, as stated under ITA Clause 26;
- 10.1.11 documents establishing the minimum qualifications of the Applicant required to be met for due performance of the Works and physical services under the contract;
- 10.1.12 any other document as specified in the ADS.

10.2 In addition to the requirements stated under ITA Sub Clause 9.1, Applications submitted by a JV or proposing a Specialized Subcontractor shall include:

- 10.2.1 Joint Venture Agreement legally entered into in the Applicant's Leading Partner's country of origin, by all partners, as stated under ITA Sub Clause 18.2;

Or,

- 10.2.2 Letter of Intent along with the proposed agreement duly signed by all partners of the intended JV and authenticated by an authority of the Applicant's Leading Partner's country of origin with the declaration that it will execute the Joint Venture Agreement in the event the Applicant and the Tenderer is successful in the subsequent Tender, as stated under ITA Sub Clause 18.3;

- 10.2.3 the JV Partner Information (**Form F-3**), as stated under ITA Sub Clause 18.11;
- 10.2.4 the Specialist Subcontractor Information (**Form F-4**), as stated under ITA Sub Clause 19.6.

11 Documents Establishing the Applicant's Qualification

11.1 Applicants shall complete and submit the Applicant Information (**Form F-2**) and shall include documentary evidence, as applicable to satisfy the following:

- 11.1.1 details on the financial standing of the Tenderer, such as profit and loss statements and corresponding auditor's report establishing the liabilities and assets;
- 11.1.2 details of general experience in Fire management works on case-by-case procurement proceedings performed for each of the last years along with the sums, dates and recipients;
- 11.1.3 details of specific experience in construction works of similar nature and size on case-by-case procurement proceedings performed for each of the last years along with the sums, dates and recipients;
- 11.1.4 details of average annual turnover for a period;
- 11.1.5 details of existing commitments and works to assess the minimum Tender Capacity;
- 11.1.6 details of adequacy of working capital for the subsequent Tender i.e., access to line(s) of credit and availability of other financial resources;
- 11.1.7 details of numbers of technical and administrative personnel along with their qualification and experience proposed for the subsequent Tender;
- 11.1.8 details of Applicant's technical facilities, available major construction equipment's, measures for ensuring quality such as, ISO certification and design, research and development facilities proposed to carry out the Contract;
- 11.1.9 details of Procuring Entities who may be contacted, if necessary, by the Employer; and authority to seek references from the Applicant's bankers or any other sources.

12.2 Applicants, if applying as an existing or intended JV, shall submit documentary evidence to establish its qualifications as stated under ITT and, in particular, it shall submit an affidavit nominating one of the JV partners as the REPRESENTATIVE (partner-in-charge) who shall have the authority to conduct all business for and on behalf of any and all the partners of the JV during the tendering process and, in the event the JV is awarded the Contract, during contract execution including the receipt of payments for and on behalf of the JV.

12 Bank Guarantees

12.1 Performance Bank Guarantee Clause

- 12.1.1 The successful bidder, upon receiving the Notification of Award (NoA), shall furnish an unconditional and irrevocable **Performance Bank Guarantee** in favor of *Asian University for Women (AUW)*.
- 12.1.2 The amount of the Performance Bank Guarantee shall be **ten percent (10%) of the total Contract Price**, issued from any scheduled bank operating in Bangladesh and acceptable to AUW.

- 12.1.3 The Performance Bank Guarantee shall remain **valid until twenty-eight (28) days after the completion of the Defects Liability Period** or final acceptance of the works, whichever is later.
- 12.1.4 Failure to submit the Performance Bank Guarantee within the stipulated time may result in the cancellation of the award and forfeiture of any right to the contract.
- 12.1.5 The Performance Bank Guarantee shall be returned to the Contractor upon satisfactory completion of all contractual obligations and submission of all completion documents as per AUW's satisfaction.
- 12.1.6 AUW reserves the right to **invoke the Performance Bank Guarantee**, in whole or in part, in the event of the Contractor's default, non-performance, or breach of any contractual terms.

12.2 Advance Payment Bank Guarantee (if applicable)

- 12.2.1 If the Employer provides any **advance payment** to the Contractor, the Contractor shall furnish an **unconditional and irrevocable bank guarantee** for the full amount of the advance, valid until the advance is fully recovered.
- 12.2.2 The Employer may encash the bank guarantee in the event the Contractor **fails to utilize the advance for the purpose of contract execution**.

12.3 Invocation of Bank Guarantee

- 12.3.1 The Bank Guarantee shall be **payable on demand and irrevocable**, and the Employer's written statement regarding Contractor's default shall be **conclusive** for the purpose of encashment.
- 12.3.2 The Bank Guarantee shall remain valid regardless of any disputes under the Contract, until it is **released in writing by the Employer**.

13. Insurance Requirements

1.1 General Insurance Coverage

The Contractor shall, at its own cost and expense, maintain insurance coverage throughout the duration of the Project to adequately cover risks associated with the performance of the Work. All insurance policies shall be issued by insurers acceptable to the Employer and shall remain in force until the completion of the Project.

1.2 Material Insurance

The Contractor shall insure all materials, equipment, and supplies brought to or used on the Project site against loss or damage due to fire, theft, vandalism, natural hazards, or any other risks associated with handling, storage, and transportation. The coverage shall be for the full replacement value of the materials.

13.3 Personnel Insurance

The Contractor shall provide adequate insurance coverage for all personnel, including employees, subcontractors, and consultants, engaged in the execution of the Project. This shall include, but is not limited to:

- 13.4 Workers' compensation or equivalent coverage as required by law Personal accident and injury insurance Health and medical coverage in case of work-related incidents

13.5 Liability Insurance

The Contractor shall maintain public liability and third-party liability insurance to cover claims arising from bodily

injury, death, or property damage caused by the Contractor's activities, equipment, or personnel during the execution of the Project.

13.6 Proof of Insurance

Prior to commencement of work, the Contractor shall submit certified copies of all insurance policies or certificates of insurance to the Employer. All insurance policies shall require that no cancellation or material modification shall be effective without at least thirty (30) days prior written notice to the Employer.

13.7 Additional Requirements

The Contractor shall ensure that all subcontractors maintain similar insurance coverage. The Contractor shall be responsible for any gaps in coverage resulting from subcontractor non-compliance.

14. Liquidated Damages

14.1 If the Contractor fails to complete the Works or any part thereof within the time specified in the Contract, the Contractor shall be liable to pay **liquidated damages** at the rate of **1% (one percent) of the Contract Price per week** of delay, unless otherwise specified in the Contract.

14.2 The total amount of liquidated damages shall not exceed **10% (ten percent) of the Contract Price**.

14.3 Liquidated damages shall be **deducted from any payments due to the Contractor**, including the Performance Security, without prejudice to any other rights of the Employer under this Contract.

15 Termination

15.1 Termination for Default

15.1.1 If the Contractor:

- a. Fails to commence, continue, or complete the Works in accordance with the Contract; or
- b. Fails to remedy any breach, delay, or defect within the period specified in a written notice from the Employer; the Employer may, at its sole discretion, **terminate the Contract for default**, in whole or in part.

15.1.2 Upon termination for default, the Employer shall have the right to:

- a. **Cancel the Contract** immediately;
- b. **Engage another Contractor** to complete the Works at the risk and cost of the defaulting Contractor;
- c. **Recover from the Contractor all additional costs, losses, and damages** incurred as a result of the Contractor's failure, including legal and administrative expenses;
- d. **Forfeit any Performance Security or other guarantees** provided by the Contractor;
- e. **Restrict or debar the Contractor** from future contracts with the Employer for a period as deemed appropriate.

15.1.3 Termination under this Clause shall be **without prejudice to any other remedies** available to the Employer under the Contract or applicable law, including claims for additional damages or specific performance.

15.2 Termination for Convenience

15.2.1 The Employer may, at any time, **terminate the Contract, in whole or in part, for convenience**, without assigning any reason.

15.2.2 In such cases, the Contractor shall be entitled to payment for:

- a. Work executed up to the date of termination; and

- b. Reasonable costs incurred for materials or commitments directly related to the terminated portion, but **shall not be entitled to any loss of profit or unperformed work.**

15.3 Termination for Insolvency or Bankruptcy

- 15.3.1 If the Contractor becomes insolvent, bankrupt, or enters into receivership or liquidation, the Employer may **terminate the Contract immediately.**
- 15.3.2 The Employer shall have the right to **recover costs incurred to complete the Works** from any outstanding payments or Performance Security.

15.4 Termination for Force Majeure

- 15.4.1 If a **Force Majeure event** persists for a period exceeding 90 days, the Employer or Contractor may terminate the Contract by giving written notice.
- 15.4.2 Upon termination due to Force Majeure:
- a. Neither party shall be liable for damages resulting directly from the termination;
 - b. The Contractor shall be paid for all work executed up to the date of termination.

15.5 Acceleration and Material Breach

- 15.5.1 In case of delays or partial non-performance, the Employer may issue a **directive for accelerated performance.**
- 15.5.2 Failure to comply with the acceleration directive shall constitute a **material breach**, justifying immediate termination under Clause 15.1

15.6 Effect of Termination

- 15.6.1 Termination of the Contract under any of the above clauses shall be **without prejudice to any other rights or remedies** of the Employer under the Contract or applicable law.
- 15.6.2 All obligations of the Contractor regarding **confidentiality, indemnity, and warranty** shall survive termination.

15.7 Acceleration of Completion

- 15.7.1 In the event of any delay or failure to accomplish the task, the Employer may issue a **written directive for accelerated performance**, specifying the revised timeline and milestones.
- 15.7.2 Failure to comply with the acceleration directive shall be treated as a **material breach**, justifying immediate termination and enforcement of ITA 15.2.

16. Descope and Backcharge

16.1 Descope of Work

- 16.1.1 The Employer reserves the right to **descope, reduce, or modify the scope of work** under the Contract, in whole or in part, by giving written notice to the Contractor.
- 16.1.2 Upon receiving a descope notice, the Contractor shall:
- a. Immediately **stop work on the descope items;**
 - b. Submit a **revised work plan, cost estimate, and schedule** within 7 working days; and
 - c. **Deliver any completed work, materials, or documentation** related to the descope items.

16.1.3 The Employer shall **adjust the Contract Price** proportionally to reflect the descope work. Such adjustment shall include:

- a. Reduction of contract payment corresponding to the value of descope items; and
- b. Recovery of any **unapproved costs incurred by the Contractor** on the descope items.

17.1 Back charge

17.1.1 The Employer may **back charge the Contractor** for costs or damages incurred due to:

- a. Non-performance, defective work, or delay caused by the Contractor;
- b. Failure to comply with specifications, drawings, or contractual obligations; or
- c. Additional work or remedial work carried out by the Employer or third parties to complete the Contractor's scope.

17.1.2 Back charge amounts shall be:

- a. **Deducted from any payment due** to the Contractor, including Performance Bank Guarantee; or
- b. **Payable by the Contractor directly** within 15 days of written notice.

17.1.3 The Contractor shall **not be entitled to any extension of time, additional payment, or claim** for costs related to the back charged items.

17.2 Procedure for Issuing Descope or Backcharge Notices

17.2.1 The Employer shall issue **written notice specifying:**

- a. The descope work or backcharged items;
- b. The reason for descope or backcharge;
- c. The monetary amount, if applicable; and
- d. The time for compliance or payment.

17.2.2 The Contractor shall **acknowledge receipt of the notice** and comply with all instructions without delay.

18 Survival of Rights

All rights of the Employer to descope, backcharge, recover costs, or enforce compliance under this Clause shall **survive the termination or completion of the Contract.**

19 Employer's Entitlement to Remedy Default

If the Contractor fails to execute any part of the Works, to remedy a defect, or to complete outstanding work within a reasonable time following notice from the Employer, the Employer shall be entitled to carry out all necessary work at the Contractor's cost by employing other persons. All necessary costs so incurred shall constitute a debt due from the Contractor to the Employer, recoverable by deduction from payments due or otherwise; provided always that the Contractor's liability and obligations under the Contract shall not be affected or diminished by the exercise of this right by the Employer.

20 DISPUTES

In no event shall AUW be liable to the Contractor for payments for any extra work the Contractor performs in addition to that required under the Statement of Work above unless the Contractor performs such work by written directive of AUW and unless the contract is amended accordingly. No officer, director, employee, or agent of AUW is authorized to direct any extra work by oral order. In the event of any claims or disputes arising from or

relating to this contract, the parties shall use their best efforts to settle the claims or disputes. To this effect, they shall consult and negotiate with each other in good faith and, recognizing their mutual interests, attempt to reach a just and equitable solution satisfactory to both parties. If they fail to reach such a solution within THIRTY (30) days, either Party may refer the matter to arbitration, as per the law of Bangladesh, which shall be the exclusive method of resolving such disputes. The arbitration shall be conducted in Chattogram, Bangladesh. The results of arbitration shall be final and binding on the Parties and shall be in lieu of any other remedy.

21 Engineer's Instructions

The Engineer may issue to the Contractor (at any time) instructions which may be necessary for the execution of the works, all in accordance with the Contract. The Contractor shall only take instructions from the Engineer or from the Engineer's Representative (if appointed) or an assistant to whom the appropriate authority to give instruction has been delegated (Delegation by the Engineer).

Subject to the following provisions, the Contractor shall comply with the instructions given by the Engineer or the Engineer's Representative (if appointed) or delegated assistant, on any matter related to the Contract.

If an instruction states that it constitutes a Variation, (Variation by instruction) shall apply.

If not so stated and the Contractor considers that the instruction:

- (a) Constitutes a Variation (or involves work that is already part of an existing Variation); or
- (b) does not comply with applicable laws or will reduce the safety of the works or is technically impossible.

the Contractor shall immediately, and before commencing any work related to the instruction, give a Notice to the Engineer with reasons. If the Engineer does not respond within 7 days after receiving this Notice, by giving a Notice confirming, reversing or varying the instruction, The Engineer shall be deemed to have revoked the instruction. Otherwise the Contractor shall comply with and be bound by the terms of the Engineer's response.

22 Defects and Rejection

If, as a result of an examination, inspection, measurement or testing, any plant, Materials, Contractor's design (if any) or workmanship is found to be defective or otherwise not in accordance with the Contract, the Engineer shall give a Notice to the Contractor describing the item of Plant, Materials, design or workmanship that has been found to be defective. The Contractor shall then promptly prepare and submit a proposal for necessary remedial work.

The Engineer May Review this proposal, and may give a notice to the Contractor stating the extent to which the proposed work, if carried out, would not result in the Plant, Materials, Contractor's design (if any) or workmanship complying with the Contract. After receiving such a Notice, the Contractor shall promptly submit a revised proposal to the Engineer. If the Engineer gives no such notice within 14 days after receiving the Contractor's proposal (or revised proposal), The Engineer shall be deemed to have given a notice of No-objection.

If the Contractor fails to promptly submit a proposal (or revised proposal) for remedial work, or fails to carry out the proposed remedial work to which the engineer has given (or is deemed to have given) a notice or No-objection, the Engineer may instruct:

- a. If any work, materials, design, goods, or services provided by the Contractor are found to be defective, non-compliant, or otherwise unsatisfactory, AUW may require the Contractor to correct, replace, or remedy such deficiencies at the Contractor's own risk and cost. Any necessary retesting, reinspection, or verification following such remedial

actions shall also be carried out at the Contractor's expense.

- b. If such defects, deficiencies, rejection, or retesting result in additional costs, losses, or delays to AUW, the Contractor shall be liable for and reimburse AUW for all such reasonable additional costs incurred.

23 Employer's Entitlement to Remedy Default

If the Contractor fails to execute any part of the Works, to remedy a defect, or to complete outstanding work within a reasonable time following notice from the Employer, the Employer shall be entitled to carry out all necessary work at the Contractor's cost by employing other persons. All necessary costs so incurred shall constitute a debt due from the Contractor to the Employer, recoverable by deduction from payments due or otherwise; provided always that the Contractor's liability and obligations under the Contract shall not be affected or diminished by the exercise of this right by the Employer.

24 Alternatives due to failure of completion by the contractor

If the contractor fails to complete specific items of work within the time schedule, the client reserves the right to assign to the completion of works those specific items to another contractor. The cost incurred for completing those items will be deducted from the original contractor's total bill. Additionally, the Defects Liability Period (DLP) for the reassigned work will still be the responsibility of the original (general) contractor.



ASIAN UNIVERSITY
FOR WOMEN

Section 2. Application Data Sheet

ITA Clause	Amendments of, and Supplements to, Clauses in the Instructions to Applicants
	RFP IDENTIFICATION NO: _____
A. General	
ITA 1.1	The Employer is <i>Asian University for Women represented by Deputy Project Director, Asian University for women, 20/A, M.M Ali Road, Chattogram-4000, Bangladesh.</i>
	The Name of the Subsequent Tender is: Design, Supply, Installation, Testing & Commissioning of a 240.875 kWp Grid-Connected Net Metered Solar PV System for three storied with a semi- basement Academic Building for Asian University for women. Application Ref:..... Package No:..... <i>[if there is more than one(1) lot, individual lots are to be identified]</i>
ITA3.1	The source of public funds is: <i>AUW own fund.</i>
ITA3.3	The name of the Development Partner is: <i>None</i>
ITA6.1	Materials, Equipment's and associated services from the following countries are not eligible: <i>Israel</i>

B. Qualification Criteria	
ITA13.1	Non-performance of a contract shall not occur within the last 5 (<i>five</i>) years. [years counting backward from the date of publication of RFP]
ITA13.2	All pending litigation shall in total not represent more than 15 (<i>fifteen</i>) percent of the Applicant's net worth.
ITA 14.1 (a)	The minimum number of years of general experience of the Applicant in public or private Design, Supply, Installation, Testing & Commissioning of a 240.875 kWp Grid-Connected Net Metered Solar PV as Prime Contractor shall be 5 (<i>Five</i>) years. [years counting backward from the date of publication of RFP]
ITA14.1 (b)	The minimum specific experience as Design, Supply, Installation, Testing & Commissioning of a 240.875 kWp Grid-Connected Net Metered Solar PV 1 (one) contract(s) of similar nature, complexity and methods/technology completed over a period of 5 (<i>five</i>) years shall be required. [years counting backward from the date of publication of RFP.]
ITA 14.1(c)	A satisfactory completion of similar works of at least BDT 1.5 (<i>One Point Five</i>) crore under a single contract over a period of 5 (<i>Five</i>) years shall be required. [years counting backward from the date of publication of RFP.]

C Requirements

ITA 15.1	The required average annual Design, Supply, Installation, Testing & Commissioning of a 240.875 kWp Grid-Connected Net Metered Solar PV works turnover shall be greater than BDT 2 (Two) crore calculated over best (3) three years within the last 5 (five) years . <i>[years counting backward from the date of publication of RFP.]</i>														
ITA 15.1(c)	The minimum amount of liquid assets or working capital or credit facilities of the Applicant shall be greater than BDT 1 (One) crore on a day after publication of RFP.														
ITA 16.1(a)	A Project Manager shall have the following qualifications and experience: <table><tr><th>No</th><th>Position</th><th>Total Works Experience (years)</th><th>In Similar Works Experience (years)</th></tr><tr><td>1.</td><td>BSc in Engineering or equivalent</td><td>7 yrs</td><td>5 yrs</td></tr></table>			No	Position	Total Works Experience (years)	In Similar Works Experience (years)	1.	BSc in Engineering or equivalent	7 yrs	5 yrs				
No	Position	Total Works Experience (years)	In Similar Works Experience (years)												
1.	BSc in Engineering or equivalent	7 yrs	5 yrs												
ITA 16.1(b)	The minimum number of Engineers with qualifications and experience shall be as follows: <table><tr><th>No.</th><th>Position</th><th>Total Works Experience (years)</th><th>In Similar Works Experience (years)</th></tr><tr><td>1.</td><td>Solar PV Design and Commissioning Engineer BSc in EEE or equivalent; relevant OEM or PV training</td><td>Min. 5 yrs</td><td>Min. 3 yrs</td></tr><tr><td>2.</td><td>Electrical Site Engineer- BSc or Diploma in Electrical Engineering</td><td>Min. 5 yrs</td><td>Min. 3 yrs</td></tr></table>			No.	Position	Total Works Experience (years)	In Similar Works Experience (years)	1.	Solar PV Design and Commissioning Engineer BSc in EEE or equivalent; relevant OEM or PV training	Min. 5 yrs	Min. 3 yrs	2.	Electrical Site Engineer- BSc or Diploma in Electrical Engineering	Min. 5 yrs	Min. 3 yrs
No.	Position	Total Works Experience (years)	In Similar Works Experience (years)												
1.	Solar PV Design and Commissioning Engineer BSc in EEE or equivalent; relevant OEM or PV training	Min. 5 yrs	Min. 3 yrs												
2.	Electrical Site Engineer- BSc or Diploma in Electrical Engineering	Min. 5 yrs	Min. 3 yrs												
ITA 16.1(c)	Other key staff with qualifications and experience shall be as follows <i>[state requirements]</i> : <table><tr><th>No.</th><th>Position</th><th>Total Works Experience (years)</th><th>In Similar Works Experience (years)</th></tr><tr><td>1.</td><td>Structural Engineer - BSc in Civil/Structural Engineering</td><td>Min. 5 yrs.</td><td>Min. 03 yrs</td></tr><tr><td>2.</td><td>HSE Officer - Graduate or diploma with recognized HSE training</td><td>Min. 03 yrs</td><td>Min. 2 yrs</td></tr></table>			No.	Position	Total Works Experience (years)	In Similar Works Experience (years)	1.	Structural Engineer - BSc in Civil/Structural Engineering	Min. 5 yrs.	Min. 03 yrs	2.	HSE Officer - Graduate or diploma with recognized HSE training	Min. 03 yrs	Min. 2 yrs
No.	Position	Total Works Experience (years)	In Similar Works Experience (years)												
1.	Structural Engineer - BSc in Civil/Structural Engineering	Min. 5 yrs.	Min. 03 yrs												
2.	HSE Officer - Graduate or diploma with recognized HSE training	Min. 03 yrs	Min. 2 yrs												
ITA 17.1	The Applicant shall own or have proven access to hire or lease of the major equipment to accomplish the tasks, Mention the equipment lists to accomplish the tasks as below: <table><tr><th>No</th><th>Equipment Type and Characteristics</th><th>Minimum Number Required</th></tr><tr><td>1.</td><td>Essential tools & equipment</td><td></td></tr><tr><td>2.</td><td>Essential tools & equipment for small scale metal works</td><td></td></tr><tr><td>3.</td><td></td><td></td></tr></table>			No	Equipment Type and Characteristics	Minimum Number Required	1.	Essential tools & equipment		2.	Essential tools & equipment for small scale metal works		3.		
No	Equipment Type and Characteristics	Minimum Number Required													
1.	Essential tools & equipment														
2.	Essential tools & equipment for small scale metal works														
3.															
ITA 18.2	In the case the Applicant's Leading Partner's country of origin is Bangladesh, the value of non-judicial stamp for execution of the Joint Venture agreement shall be BDT BDT 300 (three hundred) only														
ITA 18.3	In the case the Applicant's Leading Partner's country of origin is Bangladesh, the Letter of Intent along with the proposed agreement shall be authenticated by a Notary Public.														

ITA 18.5	The minimum qualification requirements of Leading Partner and other Partner(s) of a JV shall be as follows:			
	ADS Clauses References	Requirements by summation	Requirements for Leading Partner	Requirements for another Partner(s)
	ITA-14.1(a)	Summation not applicable	Same as stated in ADS	Same as for Leading Partner
	ITA-14.1(b)	100%	At least one characteristic	Not applicable
	ITA-14.1(c)	100%	At least one characteristic	Not applicable
	ITA-15.1(a)	100%	40%	25%
	ITA-15.1(b)	100%	40%	25%
	ITA-15.1(c)	100%	40%	25%
	ITA-16.1(a)	Summation not applicable	To be appointed by lead partner	Not applicable
	ITA-16.1(b)	100%	At least one characteristic	Not applicable
	ITA-16.1(c)	100%	At least one characteristic	Not applicable
	ITA-17.1	100%	At least one characteristic	Not applicable
ITA 19.4	The Employer intends to execute the following specific components of the proposed Works by the Nominated Subcontractor(s): <i>None</i>			
ITA 20.1	Domestic Preference <i>shall not</i> be applicable for eligible National Tenderers			
D. Application Preparation				
ITA 23.4	Use of Qualification Document posted in the website <i>is not</i> permitted for preparation of Applications.			
ITA 25.1	The Applicant shall provide with its Application the following additional documents: <i>None</i>			

E. Application Submission

ITA31.1

For Application submission purposes only, the Employer's address is:
For Tender submission purposes only, the Procuring Entity's address is:
TO AUW PROCURMENT COMMITTEE
Email address: tender176@auw.edu.bd

The deadline for the submission of Applications is:
Time & Date: 12:01pm. 10/22/2026

Section 3. Application Forms

Form	Title
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	Application Forms
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- | | |
|-------|--|
| F – 1 | Application Submission Letter |
| F – 2 | Applicant Information |
| F – 3 | JV Partner Information (<i>if applicable</i>) |
| F – 4 | Subcontractor Information (<i>if applicable</i>) |
| F – 5 | Historical Contract Non-Performance |
| F – 6 | Personnel Information |

Application Submission Letter (Form F-1)

[This letter should be completed and signed by the Authorized Signatory preferably on the Letter-Head Pad of the Applicant]

To:

[Contact Person] [Name of Employer] [Address of Employer]

Date: [dd/mm/yy]

Invitation for Qualification No:

[indicate RFP No]

Tender Package No:

[indicate Package No]

This Package is divided into the following Number of Lots *[indicate number of Lot(s)]*

We, the undersigned, apply to be qualified for the referenced Works and Physical Services and declare that:

- (a) We have examined and have no reservations to the Qualification Document, issued by you on *[insert date]*; including *[state numbers]*.
- (b) We, including as applicable, any JVCA partner or Specialist Subcontractor for any part of the contract resulting from this Qualification process, have nationalities from eligible countries according to the ITA.
[insert the nationality of the Applicant, including that of all partners in case of a Joint Venture, and the nationality of each already identified subcontractor, if applicable];
- (c) we are submitting this Application as a sole Applicant;
or
we are submitting this Application as the partners of a JVCA, comprising the following other partners;

Sl. No	Name of Partner	Address of Partner
1		
2		
3		

or

- (e) we, including as applicable any JVCA partner, declare that we are not associated, nor have been associated in the past, directly or indirectly, with a consultant or any other entity that has prepared the design, specifications and other documents in accordance with ITA;
- (f) we intend to subcontract an activity or part of the Works, to the following Specialist Subcontractor(s);

Activity or part of the Works	Name of Specialist Subcontractor with Address

- (g) we, including as applicable any JVCA partner, confirm that we do not have a record of poor performance, such as abandoning the works, not properly completing contracts, inordinate delays, or financial failure as stated in ITA, and that we do not have, or have had, any litigation against us, other than that stated in the Applicant Information (**Form -2**);
- (h) we, including as applicable any JVCA partner, confirm that we do not have a record of insolvency, receivership, bankrupt or being wound up, our business activities were not been suspended, and it was not been the subject of legal proceedings in accordance with ITA;
- (i) we, including as applicable any JVCA partner, confirm that we have fulfilled our obligations to pay taxes and social security contributions applicable under the relevant national laws and regulations of our country(s) of origin in accordance with;
- (j) we, including as applicable any JVCA partner or Specialist Subcontractor for any part of the contract resulting from this Qualification process, have not been declared ineligible by any International Development Agency or the Government of Bangladesh on charges of engaging in corrupt, fraudulent, collusive or coercive practices in accordance with ITA; or by an act of compliance with a decision of the United Nations Security Council.
- (k) furthermore, we are aware of ITA concerning such practices and pledge not to indulge in such practices in competing for or in executing the Contract;
- (l) we are not participating as Applicants in more than one Application in this pre-qualification process;
- (m) we understand that you may cancel the prequalification process at any time and that you are neither bound to accept any Application that you may receive nor to invite the pre-qualified Applicants to tender for the contract subject of this prequalification, without incurring any liability to the Applicants.

Signature:

[insert signature of authorized signatory of the Applicant]

Name:

[insert full name of signatory with National ID Number]

In the capacity of:

[insert capacity of signatory]

Duly authorized to sign the Application for and on behalf of the Applicant

[If there is more than one (1) signatory, or in the case of a JVCA, add other boxes and sign accordingly]

Attachment 1:

Written confirmation authorizing the above signatory to commit the Applicant and the subsequent Tenderer
[and, if applicable]

Attachment 2:

JV Agreement / Letter of Intent to form JV with draft proposed Agreement

Applicant Information (Form -2)

[This Form should be completed only by the Applicant, preferably on its Letter-Head Pad]

Invitation for Qualification No:

[indicate IFP No]

Tender Package No:

[indicate Package No]

This Package is divided into the following Number of Lots:

[indicate number of Lot(s)]

1. Eligibility Information of the Applicant [According to ITT]		
1.1	Nationality of individual or country of registration	
1.2	Applicant's legal title	
1.3	Applicant's registered address	
1.4	Applicant's legal status <i>[complete the relevant box]</i>	
	Proprietorship	
	Partnership	
	Limited Liability Concern	
	Government-owned Enterprise	
	Others <i>[please describe, if applicable]</i>	
1.5	Applicant's year of registration	
1.6	Applicant's authorised representative details	
	Name	
	National ID number, if any	
	Address	
	Telephone / Fax numbers	
	e-mail address	
1.7	Litigation ITT	
	Information on non-performance of contract and pending litigation furnished in Form F-5	
1.8	Applicant to attach photocopies of the original documents mentioned aside	<i>[All documents required under ITT Clauses]</i>
The following two information are applicable for national Applicants		

1.9	Applicant's Value Added Tax Registration (VAT) Number				
1.10	Applicant's Tax Identification Number(TIN)				
[The foreign Applicants, in accordance with ITT Clause 5, shall provide evidence by a written declaration to that effect to demonstrate that it meets the criterion]					
2. Qualification Information of the Applicant [According to ITT Clause]					
2.1	General Experience in of Applicant				
	Start Month Year	End Month Year	Years	Contract No and Name of Contract Name and Address of Employer Brief description of Works	Role of Applicant [Prime/Sub/Management]
2.2	Specific Experience of Applicant Completed Contracts of similar nature, complexity and methods/ technology				
	Contract No		[insert reference no] of [insert year]		
	Name of Contract		[insert name]		
	Role in Contract [tick relevant box].		Prime Contractor	Subcontractor	Management Contractor
	Award date		[insert date]		
	Completion date		[insert date]		
	Total Contract Value		[insert amount]		
	Employer's Name Address Tel / Fax <u>e-mail</u>				
	Brief description with justifications of the similarity compared to this Employer's requirements		[state justification in support of its similarity compared to the proposed works]		
2.3	Average annual turnover <i>[total certified payments received for contracts in progress or completed for each year of works in progress or completed; using selling exchange rate quoted by the source being Bangladesh Bank on the date reported, if applicable]</i>				
	Year	Amount & Currency			

2.4	Existing commitments and works [targeted to be completed by the Intended Completion Date of the proposed works]		
	Name of Contract Contract No [reference] of [year] Name of Employer Contact Address Tel/fax e-mail	Target Completion Date	Value of Existing Commitments and Works Amount & Currency
2.5	Financial Resources available to meet the cash flow		
	No	Source of Financing	Amount Available
			Amount & Currency
In order to confirm the above statements the Applicant shall submit, as applicable, the documents			
2.6	Contact Details [According to ITT]		
	Name, address, and other contact details of Applicant's Bankers and other Employer(s) that may provide references, if contacted by this Employer		
2.7	Qualifications and experience of key technical and administrative personnel proposed for Contract administration and management [According to ITT]		
	Position Name Years of General Experience	Years of Specific Experience	
[Tenderer to complete details of as many personnel as are applicable .Each personnel listed above should complete the Personnel Information (Form-6)			
2.8	Major Construction Equipment's proposed to carry out the Contract [According to ITT]		
	Item of Equipment	Condition (new, good, average, poor)	Owned, leased or to be purchased (state owner, lessor or seller)
[Applicant to list details of each item of major construction equipment, as applicable]			

JVCA Partner Information (Form -3)

[This Form should be completed by each JVCA partner].

Invitation for Qualification No:

[indicate IFP No]

Tender Package No

[indicate Package No]

This Package is divided into the following Number of Lots

1. Eligibility Information of the JVCA Partner [According to ITT]		
1.1	Nationality of Individual or country of Registration	
1.2	JVCA Partner's legal title	
1.3	JVCA Partner's registered address	
1.4	JVCA Partner's legal status <i>[complete the relevant box]</i>	
	Proprietorship	
	Partnership	
	Limited Liability Concern	
	Government-owned Enterprise	
	Other (please describe, if applicable)	
1.5	JVCA Partner's year of registration	
1.6	JVCA Partner's authorised representative details	
	Name	
	National ID number, if any	
	Address	
	Telephone / Fax numbers	
	e-mail address	
1.7	Litigation	
	Information on non-performance of contract and pending litigation furnished in Form-5	
1.8	JVCA Partner to attach copies of the original documents mentioned aside	[All documents required under ITT Clauses]
The following two information are applicable for national JVCA Partners only		
1.9	JVCA Partner's Value Added Tax Registration (VAT) Number	

1.10	JVCA Partner's Tax Identification Number (TIN)			
[The foreign JVCA Partners, in accordance with ITT, shall provide evidence by a written declaration to that effect to demonstrate that it meets the criterion]				
2. Key Activity(ies) for which it is intended to be joint ventured [According to ITT]				
	Elements of Activity	Brief description of Activity		
3. Qualification Information of the JVCA Partner [ITT]				
3.1	General Experience in Construction Works of JVCA Partner			
	Start Month Year	End Month Year	Years	Contract No and & Name of Contract Name and Address of Procuring Entity Brief description of Works
				Role of JVCA Partner [Prime/Sub/ Management]
3.2	Specific Experience in Solar Works of JVCA Partner Completed Contracts of similar nature, complexity and methods/construction technology			
	Contract No		[insert reference no] of [insert year]	
	Name of Contract		[insert name]	
	Role in Contract [tick relevant box]		Prime Contractor	Subcontractor Management Contractor
	Award date		[insert date]	
	Completion date		[insert date]	
	Total Contract Amount		[insert amount]	
	If partner in a JV, specify participation of the total Contract Amount		_____ %	Amount & Currency [insert amount] USD/GBP/EUR/JPY Equivalent [insert amount] delete not appropriate
	Employer's Name Address Tel / Fax e-mail Brief description with justifications of the similarity compared to this Employer's requirements		[state justification in support of its similarity compared to the proposed works]	
3.3	Average annual construction turnover <i>[total certified payments received for contracts in progress or completed for each year of works in progress or completed; using selling exchange rate quoted by the source being Bangladesh Bank on the date reported, if applicable]</i>			
	Year	Amount & Currency		

3.4	Existing commitments and works [targeted to be completed by the Intended Completion Date of the proposed works;]			
	Name of Contract Contract no [reference] of [year] Name of Employer Contact Address Tel/fax e-mail	Target Completion Date	Value of Existing Commitments and Works	
			Amount & Currency	
3.5	Financial Resources available to meet the construction cash flow			
	No	Source of financing	Amount Available	
			Amount & Currency	
	In order to confirm the above statements the JVCA Partner shall submit, as applicable, the documents mentioned in ITT Clause 28.			
3.6	Contact Details			
	Name, address, and contact details of Tenderer's Bankers and other Employer(s) that may provide references if contacted by this Employer			
3.7	Qualifications and experience of key technical and administrative personnel proposed for Contract administration and management			
	Position Name Years of General Experience	Years of Specific Experience		
	<i>[Tenderer to complete details of as many personnel as are applicable. Each personnel listed above should complete the Personnel Information (Form -6)]</i>			
3.8	Major items of Construction Equipment proposed for carrying out the works [ITT Clause 28]			
	Item of Equipment	Condition (new, good, average, poor)	Owned, leased or to be purchased (state owner, leaser or seller)	
	<i>[Tenderer to list details of each item of Major equipment, as applicable]</i>			

Signature (Name of Authorized Signatory of the JVCA Partner)

Specialist Subcontractor Information (Form F-4)

[This Form should be completed by each Subcontractor, preferably on its Letter-Head Pad]

Invitation for Qualification No:

[indicate IFP No]

Tender Package No

[indicate Package No]

This Package is divided into the following Number of Lots

1. Eligibility Information of the Subcontractor [ITT]		
1.1	Nationality of Individual or country of Registration	
1.2	Subcontractor's legal title	
1.3	Subcontractor's registered address	
1.4	Subcontractor's legal status <i>[complete the relevant box]</i>	
	Proprietorship	
	Partnership	
	Limited Liability Concern	
	Government-owned Enterprise	
	Other (please describe)	
1.5	Subcontractor's year of registration	
1.6	Subcontractor's authorized representative details	
	Name	
	Address	
	Telephone / Fax numbers	
	e-mail address	
1.7	Subcontractor to attach copies of the following original documents	All documents to the extent relevant to ITT Clause in support of its qualifications
The following two information are applicable for national Subcontractors		
1.8	Subcontractor's Value Added Tax Registration (VAT) Number	
1.9	Subcontractor's Tax Identification Number (TIN)	

[The foreign Subcontractors, in accordance with ITT, shall provide evidence by a written declaration to that effect to demonstrate that it meets the criterion]

2. Key Activity(ies) for which it is intended to be Subcontracted

2.1	Elements of Activity	Brief description of Activity
2.2	List of Similar Contracts in which the proposed Subcontractor had been engaged	
	Name of Contract and Year of Execution Value of Contract Name of Employer Contact Person and Contact details Type of Work Performed	

Signature (Name of Authorized Signatory of the Proposed Sub-Contractor)

Historical Contract Non-Performance (Form F-5)

[The following table shall be filled in for the Applicant and for each partner of a Joint Venture]

Applicant's Legal Name: *[insert full name]*

Date: *[dd/mm/yy]*

Joint Venture Party Legal Name: *[insert full name]* IFP No. and title: *[insert RFP number and title]*

Page *[insert page number]* of *[insert total number]* pages

Non-Performing Contracts in accordance with Qualification Criteria and Requirements			
☐ Contract non-performance did not occur during the <i>[number]</i> years specified in Qualification Criteria and Requirements, ☐ Contract(s) not performed during the <i>[number]</i> years specified in Qualification Criteria and Requirements,			
Year	Non performed portion of contract	Contract Identification	Total Contract Amount (Current value)
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for non performance: <i>[indicate main reason(s)]</i>	
Pending Litigation, in accordance with Qualification Criteria and Requirements ☐ No pending litigation in accordance with Qualification Criteria and Requirements,. ☐ Pending litigation in accordance with Qualification Criteria and Requirements, as indicated below.			
Year	Outcome as Percentage of Total Assets	Contract Identification	Total Contract Amount (current value)
<i>[insert year]</i>	<i>[insert percentage]</i>	Contract Identification: <i>[indicate complete contract name, number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Matter in dispute: <i>[indicate main issues in dispute]</i>	Total Contract Amount (current value)

Personnel Information (Form -6)

[This Form should be completed for each person proposed by the Tenderer on Form PW5-2& PW5-3, where applicable]

Name of the Applicant:	<i>[insert Title]</i>
Invitation for Tender No:	<i>[indicate RFP No]</i>
Tender Package No	<i>[indicate Package No]</i>
This Package is divided into the following Number of Lots	<i>[indicate number of Lot(s)]</i>

A. Proposed Position (tick the relevant box)		
☐ Electrical/Mechanical Engineer	☐ Prime Candidate	☐ Alternative Candidate
☐ Key Personnel	☐ Prime Candidate	☐ Alternative Candidate
B. Personal Data		
Name:		
Date of Birth:		
Years overall experience:		
National ID Number:		
Years of employment with the Tenderer:		
Professional Qualifications: 1. 2. 3. 4.		
C. Present Employment <i>[to be completed only if not employed by the Applicant]</i>		
Name of the Employer:		
Address of the Employer:		
Present Job Title:		
Years with the present Employer:		
Tel No:	Fax No:	e-mail address:

Contact <i>[manager/personnel officer]</i> :			
D. Professional Experience			
Summaries professional experience over the last twenty (20) years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.			
	From	To	Company / Project / Position / Relevant technical and management experience.
1			
2			
3			
4			
5			

(Name and Signature of the Proposed Personnel)

**TECHNICAL SPECIFICATIONS AND BILL OF
QUANTITIES OF**

TENTATIVE BOQ OF 240.875 KWp ON GRID SOLAR SYSTEM OF ACADEMIC BUILDING OF ASIAN UNIVERSITY FOR WOMEN CAMPUS PROJECT

Project: Asian University for Women (AUW), Campus Project, Arefin Nagar, Chattogram

Scope: Supply, Installation, Testing and commissioning of 240.875 KWp Grid Tie Net Metering On Grid Solar System of Academic Building

Part A: Grid Tie On Grid Solar System

SL.	Item Description	Rating/ Country of origin	Unit	Qty	Unit price (BDT)	Total price (BDT)	Remarks
1.00	Solar System Capacity 240.875 KWp DC Supply, installation, testing & commissioning of solar modules, module type Monocrystalline manufacturing performance testing shall be in accordance to the IEC,EN,CE,TUV or equivalent international standards and skilled labour, technician, Engineer as per manufacturers instruction manual. Country of origin (RISEN/Jinko /Sunerise/GCL- China) Complete with following all standard accessories. (Solar capacity finalized after assesment provided by client) 710 Wp solar modules solution (Tier 1 listed & SREDA approved) Total Module capacity 240.875 KWp DC Power Tolerance: ± 3% Nominal Voltage: 40V Maximum Power Voltage at Pmax: 40.78 V Open Circuit Voltage (Voc): Maximum 48.75 V Construction: High-transmission, anti-reflective coated tempered glass Frame: Clear Anodized Aluminum alloy, color: silver/Black Temperature range: -40(c0 to +85(c) Wind Velocity withstand capacity of support structure: 200Km/h Max. System voltage: 1500V Module efficiency: 21-24% Weight: 30-35 KG (Approx.) Dimention: 2400mm X 1300mm X 33mm (Approx.) Efficiency to be 80% coverage at peak hours of 5 to 6 hours in every day DC System Voltage: to suit inverter specification, Max 1000V-1500 DC Warranty: 15 years or higher		KWp	340		-	
2.00	Solar On Grid Inverter (SREDA approved) Supply, installation, testing & commissioning of imported Inverter with all necessary fittings and & all accessories as per drawings, specification & instruction of the Engineer-in-charge. Inverter Capacity-50KW, Frequency 50 Hz, AC output 400 Voltage (±4%). Warranty 03 Years Brand: SMA - Germany, HUAWEI-China or Equivalent. Protection Class: IP 65 IEC 62109-1/-2, EN50549-1/-2:2018, VDE-AR-N 4105/4110/4120:2018, IEC 62116, IEC 61727, With DC and AC SPD with DC Isolator.		Set	5		-	
3.00	Regulatory Approval Electrical safety CE marked for the Low Voltage Directive EN / IEC 62109-1/ EN/ IEC 62109-2, AS3100 Grid interconnection VDE0126-1-1, VDE-AR-N 4105, CEI 0-21, G59/3, UTE C15-712-1, AS4777, IEC 62116, IEC 61727, PEA & MEA for Thailand*** Environmental RoHS, REACH and 4K4H		Job	1		-	

TENTATIVE BOQ OF 240.875 KWp ON GRID SOLAR SYSTEM OF ACADEMIC BUILDING OF ASIAN UNIVERSITY FOR WOMEN CAMPUS PROJECT							
Project: Asian University for Women (AUW), Campus Project, Arefin Nagar, Chattogram							
Scope: Supply, Installation, Testing and commissioning of 240.875 KWp Grid Tie Net Metering On Grid Solar System of Academic Building							
Part A: Grid Tie On Grid Solar System							
4.00	PV Modules Racking System including Civil Work						
	For RCC Roof: 18000 sft Approx. Carbon Steel Frame with Carbon Steel Nut,Bolt and HDG Washer ISO 9001:2015, ISO 4001:2015, ISO 4001:2018		Lot	1		-	
5.00	DC Combiner Box						
	Supply, installation, testing & commissioning of DC combiner Box locally assembled Performance testing shall be in accordance to the International standards and skilled labour, technician, Engineer as per manufacturers instruction manual. Complete with following all standard accessories. Input: Incoming string positive & negative separately through by fuse and DC surge protector & Circuit breaker, Connector MC4 (male & female). Short Circuit Protection: Protected by combiner box. DC Surge Protection Device (SPD); Brand : ABB/Schneider/Siemens.		Set	5		-	
6.00	AC Combiner Box						
	Supply, installation, testing & commissioning of AC combiner box weather proof, Locally assembled, Type tested equivalent poly-carbonate suitable for outdoor and performance testing shall be in accordance to the International standards and skilled labour, technician, Engineer as per manufacturers instruction manual. Made of steel sheet with Copper busbar TPN+E and mounting provision with MCCB and Energy meter (with RS485). Complete with following all standard accessories. AC Surge Protection Device (SPD) & capable of breaking full load current. Incoming: 1X630A TP MCCB (36KA) (Adj.) Outgoing :6X160A TP MCCB (25KA) (Adj.) 6X63A 4-P MCCB (20KA) for SPD 4X20 A SP MCB (6KA) 2X16 A SP MCB (6KA) 3X40 A TP MCB (15KA) including Cable connectors & 480 A TPNE+240 A ECC copper busbars, indicating lamp, digital multimeter, phase failure relay etc. with all necessary fittings & accessories as per drawings, specification & instruction of the Engineer-in-charge. Brand : ABB/Schneider/Eaton.		Set	1		-	
7.00	Three Phase Energy Meter						
	Supply, installation, testing & commissioning of three phase energy meter with all necessary fittings, encloser & in accordance with the instruction of Engineer-in-charge having following features: I. Three phase (as per requirement) II. Shall be able to measure and record the amount of solar energy provided by the system.		Set	1		-	

TENTATIVE BOQ OF 240.875 KWp ON GRID SOLAR SYSTEM OF ACADEMIC BUILDING OF ASIAN UNIVERSITY FOR WOMEN CAMPUS PROJECT

Project: Asian University for Women (AUW), Campus Project, Arefin Nagar, Chattogram

Scope: Supply, Installation, Testing and commissioning of 240.875 KWp Grid Tie Net Metering On Grid Solar System of Academic Building

Part A: Grid Tie On Grid Solar System

8.00	PV-DG CONTROLLER WITH DATA LOGGER						
	A PV-DG (photovoltaic-diesel generator) controller manages the operation of both solar panels and a diesel generator, ensuring they work together to power a load efficiently and reliably. Its primary functions include synchronizing the PV and DG sources to safely share the load, optimizing fuel consumption by prioritizing solar power, and protecting both systems by preventing issues like generator underloading or reverse power flow. It must have the three following operating modes: Operation with DG: Main functions when using with DG: - 1. Maintain spinning reserve at about 25-30% (when load is less than solar power). 2. To protect DG from excess solar power. 3. To monitor solar, DG and load parameters. Feed in Management (zero export): - 1. To avoid back feeding into grid. 2. To monitor solar, Grid & load parameters. Monitoring- Remote and Local: - 1. Remote monitoring with alerts. 2. Local monitoring. Brand: SuryaLogix/Equivalent. Origin: India/Equivalent.		Set	1		-	
9.00	Solar System Loading -Unloading & Transportation at site		Job	1		-	
10.00	Cable Tray						
	Supply & Installation of 18 SWG GP sheet capsule type cable tray with cover and size of the cable tray should be maintained 150X75 mm to laid the AC & DC cable for connection with the AC & DC combiner box		Rft	800		-	
11.00	Firefighter Disconnect Switch						
	Supply & Installation, testing & commissioning of Firefighter Disconnect Switch(RSB remote sensor) with Certification (CE). Protection class: IP-65, DC Voltage: 1000V, Brand: PROJOY Electric China/ Equivalent.		Job	1		-	
12.00	Irradiation and Temperature Sensor						

TENTATIVE BOQ OF 240.875 KWp ON GRID SOLAR SYSTEM OF ACADEMIC BUILDING OF ASIAN UNIVERSITY FOR WOMEN CAMPUS PROJECT							
Project: Asian University for Women (AUW), Campus Project, Arefin Nagar, Chattogram							
Scope: Supply, Installation, Testing and commissioning of 240.875 KWp Grid Tie Net Metering On Grid Solar System of Academic Building							
Part A: Grid Tie On Grid Solar System							
	Supply & Installation, testing & commissioning of Irradiation and Temperature Sensor. Brand: SuryaLogix. Model: Solar Irradiation and temperature sensor, SL-RS-485IRR-AMT, Protection Class: IP-65, Supply voltage: 10V to 28V.		Job	1		-	
13.00	Monitoring and Control System						
	Supply & Installation, testing & commissioning of SMA/HUEWAI/Equivalent Data manage M IEC 60529		Job	1		-	
14.00	Panel Cleaning System & Networking						
	Supply & Installation, testing & commissioning of water pump for panel cleaning Brand: Gazi Pump or Equivalent, Water Line: uPVC pipe with all relevant accessories.		Job	1		-	
15.00	Networking (Additional)						
	Network set up should be considered & modem brand: TP Link		Job	1		-	
16.00	Perforated Rubber Mat For Panel Room						
	Supply & Installation of 10mm thickness perforated floor rubber mat with pasting materials and hooking up with each other and approved quality suitable for use as electrical insulation of the floor and complete with all other necessary accessories per required and direction of the Engineer-in-charge. Certification of materials is required.		Sqm	18		-	
17.00	Fittings & Accessories		Lot	1		-	
18.00	System Testing & Commissioning		Job	1		-	
19.00	As Built Drawings & Documentation and Miscellaneous		Job	1		-	
Part B: Cable Item							
20.00	Providing & laying of UV protected DC Cable, Min 1x 4mm ² , 1500VDC, Including 2" uPVC pipe Brand : Imported, China.		mtr	9500		-	
21.00	Providing & laying of 4C-50 mm ² NYY Cable with Other Accessories for Inverter to AC DB to Energy Meter Brand : SQ/BBS/BRB or equivalent , Bangladesh		mtr	1150		-	
22.00	Providing & laying of 1C-25 mm ² BYA ECC Cable with Other Accessories for Inverter to AC DB to Energy Meter Brand : SQ/BBS/BRB or equivalent , Bangladesh		mtr	300		-	
23.00	Providing & laying of 1C-150 mm ² BYA ECC Cable with Other Accessories From LT Panel to AC Combiner Box		mtr	200		-	
24.00	Providing & laying of 4C-300 mm ² NYY Cable with Other Accessories From LT Panel to AC Combiner Box		mtr	600		-	
25.00	Providing & laying of Cables (NYYF DC+ NYY AC) and Surge protector(DC + AC) with fixing materials & other accessories etc.		lot	1		-	
26.00	Miscellaneous & Others		Job	1		-	
TOTAL AMOUNT (BDT)						-	

Costing of Per Wp (BDT), Excluding VAT, AIT

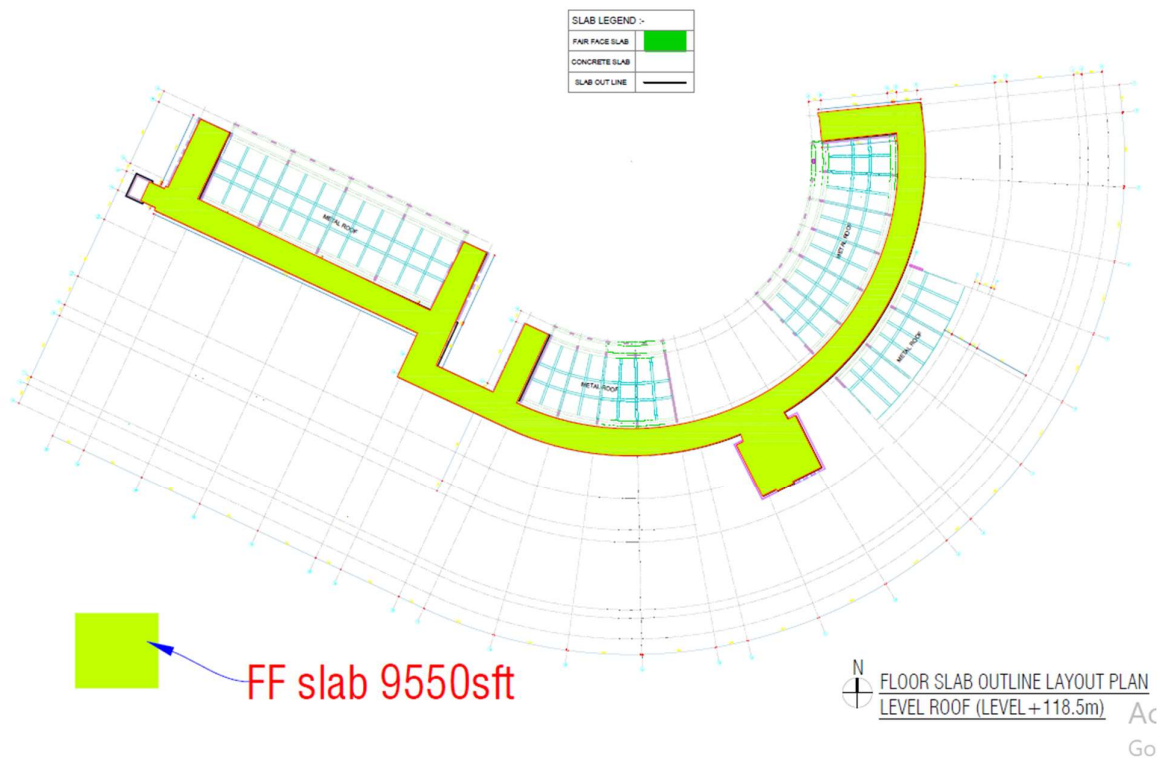
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Tentative Requirement of Capacity Net Metering On Grid Solar System_Academic Building

L-03-Roof- Hall Way Roof: Approximate Area 9550 Sft

Considering 710 Wp Solar PV Plate (Required Area 80 Sft-01 Nos Solar Placement, Including Maintenance)

Total Capacity of Solar in Wp= 85200, 85.20 KWp.



L-02-Planter Roof Only (Green Marked):- Approximate Area 3286 Sft

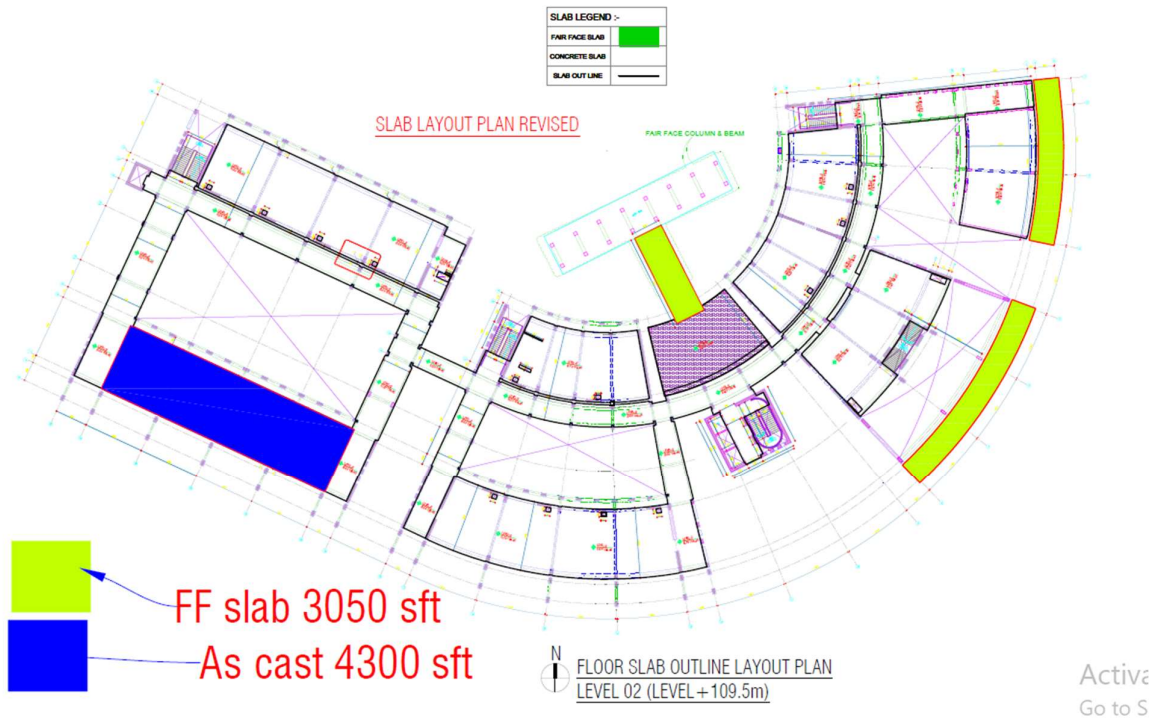
Considering 710 Wp Solar PV Plate (Required Area 80 Sft-01 Nos Solar Placement, Including Maintenance Placement)

Total Capacity of Solar in Wp= 29163, 29.163 KWp.

L-01- Roof, Approximate Area: 3000 Sft

Considering 710 Wp Solar PV Plate (Required Area 80 Sft-01 Nos Solar Placement, Including Maintenance Placement)

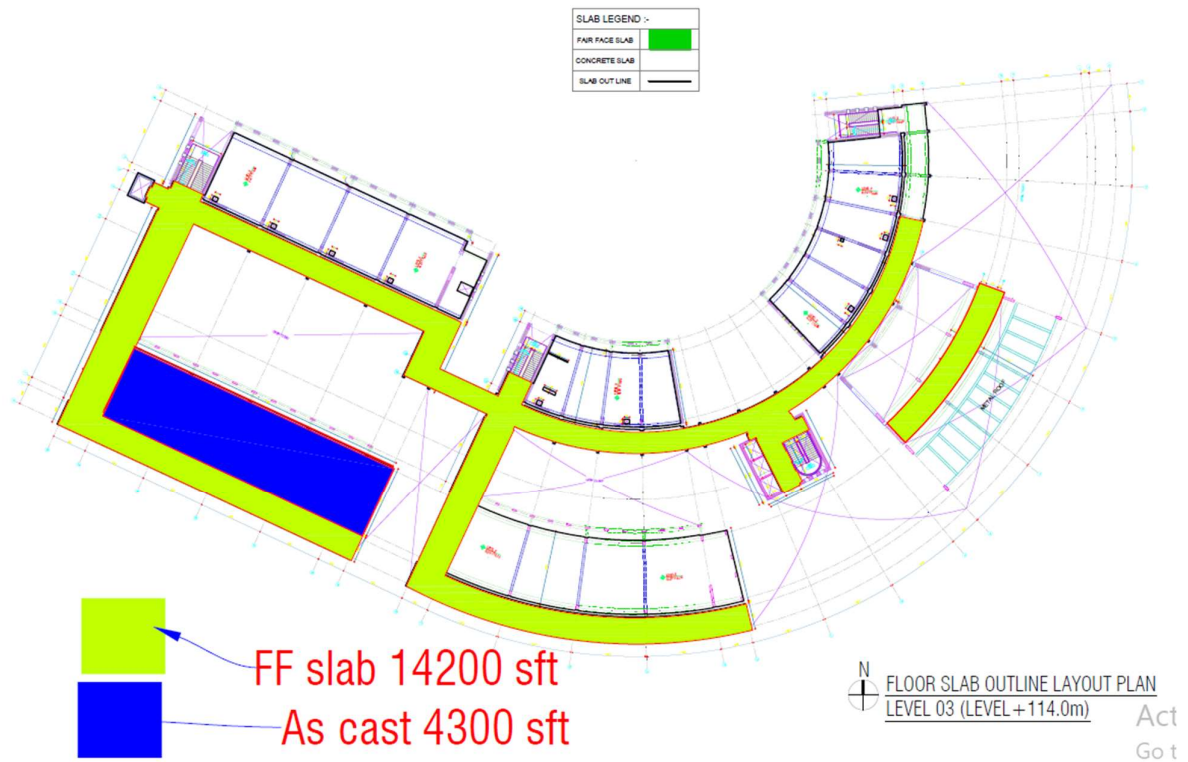
Total Capacity of Solar in Wp= 26225, 26.225 KWp.



L-03- Hall Way Roof-Others Portion & As cast:- Approximate Area 11300 Sft

Considering 710 Wp Solar PV Plate (Required Area 80 Sft-01 Nos Solar Placement, Including Maintenance Placement)

Total Capacity of Solar in Wp= 110488, 100.287 KWp.



Total Capacity of Solar in the Academic Building: 240.875 KWp