

Standard Bidding Document

Tender for Supply, Installation, Testing & Commissioning of 160 KW
Hybrid Solar Photovoltaic system
(Goods)

National

Single Stage-Two Envelope

CORRIGENDUM # 1	CORR-P76837-001
Initiation Date	August 18, 2026



August 18, 2026

*COMSATS University Islamabad, Abbottabad Campus) (Comsats University, Islamabad),Purchase Officer
COMSATS University Islamabad, Abbottabad Campus Tobe Camp, University Road,, Abbottabad, Abbottabad
(District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province).
Phone: +92-343-525-8373, Email: nisarahmed@cuiatd.edu.pk*

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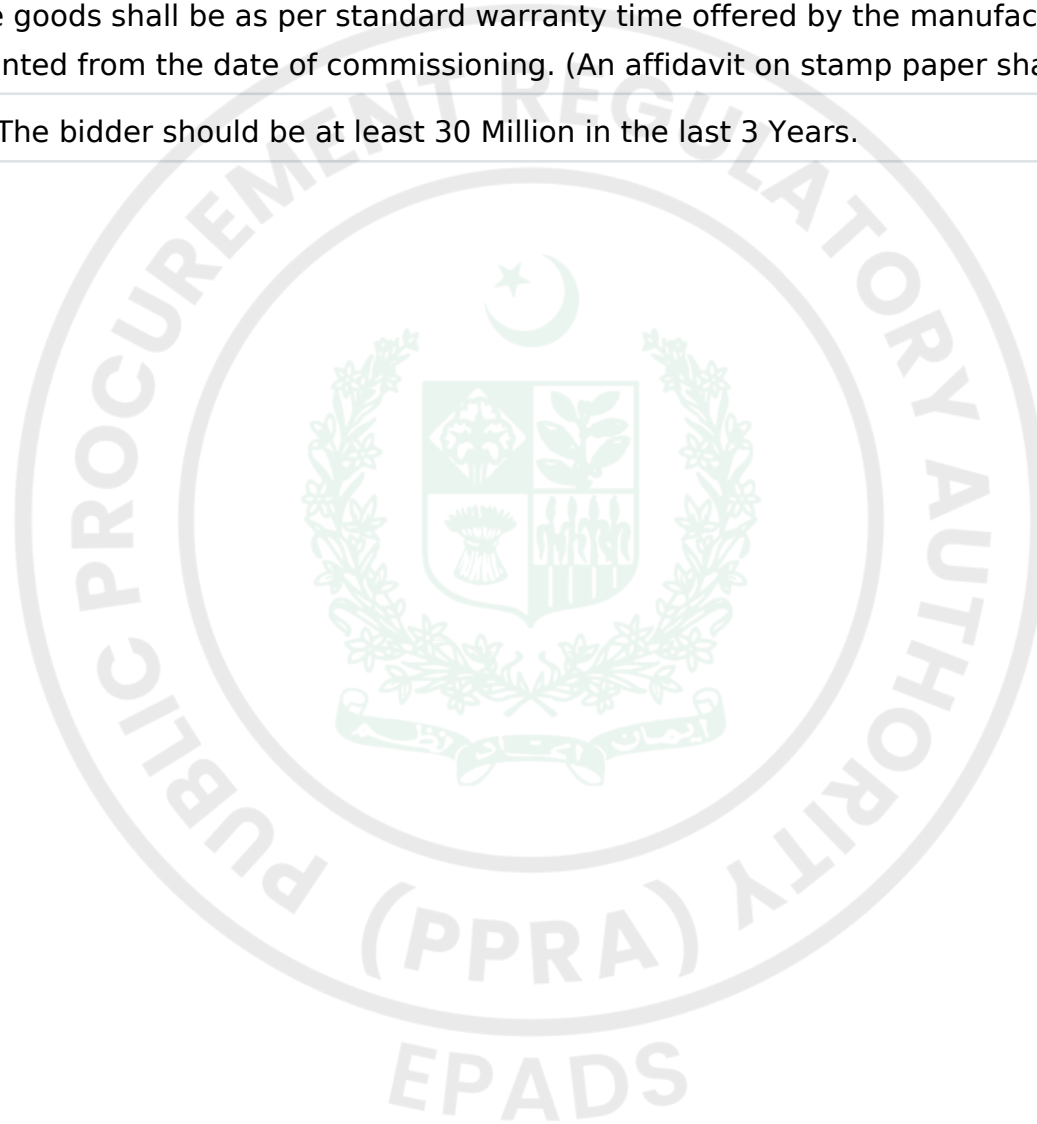
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Eligibility Criteria

Bidder's Type	Required Registration
Individual / Individual Consultant	NADRA CITIZENSHIP (CNIC/NICOP)
Sole Proprietorship	FBR (NTN)
Partnership Firm	FBR (GSTN)
Company (Private Limited)	PEC
Company (Public Limited)	

Eligibility Criteria	Document
1- NTN & GST Certificate and Active on ATL List	Yes
2-Bidder shall have valid PEC license-of C-4 or above having specialized codes EE11 (Solar)	Yes
3-Bidder must be a registered with AEDB/PPIB under C2 or Higher category	Yes
4-Certified that, bid security is @2% is attached with Financial Bid. (Hard Copy of Security Must Reach Procurement Office before Closing Date & Time)	Yes
5-Should have proof of installed Solar System of 100kW or above at least at 3 sites in Last Five Years.	Yes
6-Bidder should have a local presence in Pakistan market for more than 5 years.	Yes

7- Bidder Should be financially strong enough to start the project without advance payment (An affidavit on stamp paper shall be submitted)	Yes
8-The warranty period of the goods shall be as per standard warranty time offered by the manufacturer. The warranty period shall be counted from the date of commissioning. (An affidavit on stamp paper shall be submitted)	Yes
9- The Average Turnover of The bidder should be at least 30 Million in the last 3 Years.	Yes



Evaluation Criteria

Eligible bidder(s) with substantially responsive bid(s) offering **Least Cost Based Selection (LCBS)** shall be consider for the award of contract(s).

Least Cost Based Selection (LCBS)

Weightage

Technical Evaluation Weightage	
100	
Technical Marks	100
Passing Marks	70
Technical Evaluation Criteria	
Technical Compliance: 1. Complete compliance against all technical specifications duly signed and stamped (Marks = 20) 2. Detailed data sheets/catalogues of all proposed equipment including PV Modules, Inverters, DC/AC Protection devices, DC Cables (Marks = 5) 3. Single Line Diagram (SLD), system architecture and cable routing drawing (Marks=5) 4. Mounting Structure design including wind load calculations and foundation details drawings (Marks=5) 5. Generation Analysis (PV-system or equivalent software) showing estimated annual energy generation (Marks=5) (Quantitative)(Doc Required)	40
Relevant Experience & Successfully Completed Contracts: Minimum Five Relevant Experience of Installing Solar PV Photovoltaic System is Mandatory. Successfully Completed Solar PV contracts of 100 kW or above during last 5 years. (Marks = 30) (5 Marks for each Project) Maximum up-to 30 Marks (Quantitative)(Doc Required)	30

Average Turn-Over of Company in Last Five Years: 1- 30 Million to 50 Million (5 Marks) 2- 50 Million to 100 Million or Above (10 Marks) Maximum Marks are 10 (Quantitative)(Doc Required)	10
After Sales Services & Warranty Commitment: 1-After Sales support and warranty commitment on stamp paper as per BOQ (Marks = 10) 2- Local presence and after-sales support (undertaking of response time) (Marks =10) (Quantitative) (Doc Required)	20



Items/Lots

Lot Title : Supply, Installation, Testing and Commissioning of 160KW Hybrid Solar Photovoltaic System

Bid Security : 700000 PKR

Item	UNSPSC	Delivery Schedule	Quantity	Warranty
A-grade Tier-1 Solar PV pannel	Solar generators	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 160/kw	160 / kw	12 Years
Tier-1 Hybrid Solar Inverters,	Inverters	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 200/kw	200 / kw	5 Years

Item	UNSPSC	Delivery Schedule	Quantity	Warranty
Lithium Battery Energy Storage System (BESS)	Lithium batteries	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30days Quantity: 120/kw	120 / kw	5 Years
Supply & Installation Of High Rise Duty Frame	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 1/job	1 / job	1 Years
Supply & Fixing of 4 Core PVC/PVC Insulated Copper Cable	Power cable	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 200/m	200 / m	1 Years

Item	UNSPSC	Delivery Schedule	Quantity	Warranty
Supply & Fixing of DC Wire	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 1400/m	1400 / m	1 Years
Supply & fixing of 1 × 6 mm ² copper cable (green) for panel-to-panel earthing	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30Days Quantity: 250/m	250 / m	1 Years
Supply & fixing of 1 × 16 mm ² copper cable (Green) for grounding	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 700/m	700 / m	1 Years

Item	UNSPSC	Delivery Schedule	Quantity	Warranty
Copper lighting arrestor/ 3 Ft rod with ball having five spikes and base. With insulators	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 10/Qty	10 / Qty	1 Years
Earth PIT,	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 45 Quantity: 8/Qty	8 / Qty	1 Years
Earth Bus Bar 10"x1.5"X 2mm with insulators + box	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 07/Qty	7 / Qty	1 Years

Item	UNSPSC	Delivery Schedule	Quantity	Warranty
Supply and installation of 4 pole MCCBs 250 A (415 V, 18 kA)	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 4/Qty	4 / Qty	1 Years
Supply and installation of 4 pole MCCBs 125 A (415 V, 18 kA) to be connected at output of inverters	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 8/Qty	8 / Qty	1 Years
Supply and installation of DC MCB, 2P, 32A (1000VDC)	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 24/Qty	24 / Qty	1 Years

Item	UNSPSC	Delivery Schedule	Quantity	Warranty
Supply & Installation 3-step lever-operated changeover switch rated for 1000 V DC	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 4/Qty	4 / Qty	1 Years
Civil works required	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 1/job	1 / job	1 Years
Supply and installation of 4 pole AC Surge Protection Device Type 2 65/40 kA as per site requirement	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 4/Qty	4 / Qty	1 Years

Item	UNSPSC	Delivery Schedule	Quantity	Warranty
Supply and installation of 2 pole DC Surge Protection Device Type 2 65/40 kA as per site requirement	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 24/Qty	24 / Qty	1 Years
Supply & Installation of DC DB Boxes for DC breakers and SPDs with complete internal wiring	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 1/job	1 / job	1 Years
Supply & Installation of DC DB Boxes for DC breakers and SPDs with complete internal wiring required for each inverter along with Reflectors Labelling on DB.	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 1/job	1 / job	1 Years

Item	UNSPSC	Delivery Schedule	Quantity	Warranty
Supply & Installation of AC DB Boxes for AC breakers & SPD.	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 1/job	1 / job	1 Years
Supply & Installation of AC Combiner Box (including 4 pole 400 A MCCB)	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 2/Qty	2 / Qty	1 Years
Supply & Installation of 3 Step Change Over Switch 3phase 200A	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 8/Qty	8 / Qty	1 Years

Item	UNSPSC	Delivery Schedule	Quantity	Warranty
Supply and installation of MC4 Connectors IP67 Good quality	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 1/job	1 / job	1 Years
Complete supply, installation, testing, commissioning, and successful operation of the entire solar photovoltaic (PV) system,	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 45 Days Quantity: 1/job	1 / job	1 Years
Supply, Design, Installation & Commissioning of PV Gen-Set Synchronizer with Changeover for three inputs (Wapda, Genset, Solar)	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 45 Days Quantity: 160/kw	160 / kw	1 Years

Item	UNSPSC	Delivery Schedule	Quantity	Warranty
Load segregation Job	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 1/job	1 / job	1 Years
Complete net-metering integration including load flow analysis, Enhancement of sanctioned load, bidirectional meters and inverter synchronization with utility grid.	Electric power system construction service	Address: Comsats University Islamabad CUI Abbotabad Campus, Dhamtour, Near BHU Dhamtour, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province). Schedule: 30 Days Quantity: 2/Qty	2 / Qty	3 Years

Related Services of Goods:

No



Items/Lot Specification

Lot Title : Supply, Installation, Testing and Commissioning of 160KW Hybrid Solar Photovoltaic System

Item: A-grade Tier-1 Solar PV pannel

UNSPSC: Solar generators

Specifications / Requirements:

A-grade Tier-1 Solar PV panels (610 W-720 W rating) Brand: Longi, Canadian solar, Jinko, or JA Technology: TOPCON/HTJ/HPBC 2.0. (N-Type, Bifacial) Certifications: ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, IEC 61215, IEC 61730, COC/PSI flash test report. Standards Minimum performance warranty of 30 years.

Item: Tier-1 Hybrid Solar Inverters,

UNSPSC: Inverters

Specifications / Requirements:

Tier-1 Hybrid Solar Inverters, (50 kW rating individual inverters each, Qty=04) Brand: Solis/ Good We The inverter Compatible with 48-314 Ah high-voltage battery modules. And should have following major specifications: • AFCL and IP 66 protection. • Advanced energy management with AI-based optimization, automatic fault diagnosis, reactive power compensation, and power factor control. • Capable of stable operation under weak-grid and generator-hybrid (genset) applications. Manufacturer's original parallel kit, complete with all communication modules, cables, interfaces, software, and accessories, for synchronized parallel operation of the specified hybrid inverters as a 100-kW system per building. The kit shall support automatic load sharing, battery management, grid synchronization, and include complete configuration, testing, and commissioning as per the manufacturer's specifications Warranty: Minimum 5 years replacement warranty.

Item: Lithium Battery Energy Storage System (BESS)

UNSPSC: Lithium batteries

Specifications / Requirements:

Supply, installation and testing of Lithium Battery Energy Storage System (BESS) fully compatible with hybrid inverters. Brand: Pylontech/ Solis/ GoodWe/ Dyness The battery bank shall include all required battery modules, Battery Management System (BMS), battery rack/cabinet, DC protection, communication cables, and accessories for complete operation. Manufacturer's original interconnecting cables for parallel connection Battery bank should have minimum 6000 life cycles at 95% DOD and IEC 62619, IEC 61000, UN38.3, IEC 62040 or equivalent certifications. The battery should have Minimum 0.5C charge/discharge rate and minimum IP 54 rating. Warranty: Minimum 5 years replacement warranty (Warranty by Manufacture/Authorized distributor of The Company will be acceptable and will start from date of Installation)

Item: Supply & Installation Of High Rise Duty Frame

UNSPSC: Electric power system construction service

Specifications / Requirements:

Supply and fabrication High-rise Heavy-Duty Frame for solar panels having following specs: I beam (4.5" x 2.5" x 3mm) 1550 gm Avg Rft and 14-gauge GI C channels. And civil work. The steel girders must be painted (one coat of red oxide and two coats of gray master enamel) by high-quality paint. • Mid clamps and end clamps for solar panels holding • The design should ensure proper spacing and orientation for PV modules, allowing ease of installation and future replacement • Dedicated maintenance walkways of appropriate width shall be provided within the solar array for safe inspection, cleaning, and servicing. • All fabrication, welding, and erection shall conform to AWS D1.1 / ASTM / BS EN standards or equivalent. • Bolts, nuts, and fasteners shall be stainless steel (SS 304/316) or hot dip galvanized for long life. • All welds shall be continuous, free from cracks, and inspected for quality assurance. • CONCRETE PADS 1 feet x 1 feet x 3 feet (L,W,H) for ground for rooftop 1 feet x 1 feet x 1 feet: PCC 1:2:4 for PV Mounting pads as per site requirement including all civil works and installation and instruction of Engineer Alignment, tilt angle, and structural integrity shall be checked before final acceptance

Item: Supply & Fixing of 4 Core PVC/PVC Insulated Copper Cable

UNSPSC: Power cable

Specifications / Requirements:

Supply and fixing of 35-50 mm² 4 core PVC/PVC insulated copper cable for connecting output of inverter to the load. Brand: Pakistan cable, Newage, Fast, GM, The AC wires must have following certifications: ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007 • The manufacturer of cables must have KEMA, PSQCA and CNC certification. The installer must provide Manufacturer datasheets, IEC compliance certificates and test reports. The size of cable according to load must be approved by technical committee (The payment of Cable will be made on basis of actual quantity used)

Item: Supply & Fixing of DC Wire

UNSPSC: Electric power system construction service

Specifications / Requirements:

Supply and fixing of DC Wire 1 × 6 mm² flexible 1000V XLPE/XLPO (Pure copper without tin coated) class 5 tinned copper based on IEC 60228 for connecting the solar panels and inverter. Brand: Pakistan cable, Newage, Fast, GM, The cables must meet the compliance set out in EN 50618 and qualify for H1Z2Z2-K. Solar DC cables must include manufacturing of Tinned flexible Copper, XPLO insulation, XPLO outer sheath DC rated to 1500 (The payment of Cable will be made on basis of actual quantity used)

Item: Supply & fixing of 1 × 6 mm² copper cable (green) for panel-to-panel earthing

UNSPSC: Electric power system construction service

Specifications / Requirements:

Supply & fixing of 1 × 6 mm² copper cable (green) for panel-to-panel earthing and earthing between arrays including copper lugs/sleeves, complete with all accessories, Brand: Pakistan Cable, Fast, Newage (The payment of Cable will be made on basis of actual quantity used)

Item: Supply & fixing of 1 × 16 mm² copper cable (Green) for grounding

UNSPSC: Electric power system construction service

Specifications / Requirements:

Supply & fixing of 1 × 16 mm² copper cable (Green) for grounding of combined structure and grounding of lightning arresters including copper lugs and sleeves, complete in all respects. Brand: Pakistan Cable, Fast, Newage (The payment of Cable will be made on basis of actual quantity used)

Item: Copper lighting arrestor/ 3 Ft rod with ball having five spikes and base. With insulators

UNSPSC: Electric power system construction service

Specifications / Requirements:

Copper lighting arrestor/ 3 Ft rod with ball having five spikes and base. With insulators

Item: Earth PIT,

UNSPSC: Electric power system construction service

Specifications / Requirements:

Earth PIT, 35' deep bore of 6" dia, 10' 15mm copper rod, 25mm copper wire (bare) 30', u clamp, Earthing material 25 kg, 2x2' main hole with metal cap. GI pipe 2" 25' with hanging clamps. Less than 5 Ohm.

Item: Earth Bus Bar 10"x1.5"X 2mm with insulators + box

UNSPSC: Electric power system construction service

Specifications / Requirements:

Earth Bus Bar 10"x1.5"X 2mm with insulators + box

Item: Supply and installation of 4 pole MCCBs 250 A (415 V, 18 kA)

UNSPSC: Electric power system construction service

Specifications / Requirements:

Supply and installation of 4 pole MCCBs 250 A (415 V, 18 kA) to be connected at input of inverters Brand: Chint/ CNC These devices must be approved by technical committee

Item: Supply and installation of 4 pole MCCBs 125 A (415 V, 18 kA) to be connected at output of inverters

UNSPSC: Electric power system construction service

Specifications / Requirements:

Supply and installation of 4 pole MCCBs 125 A (415 V, 18 kA) to be connected at output of inverters Brand: Chint,/CNC These devices must be approved by technical committee

Item: Supply and installation of DC MCB, 2P, 32A (1000VDC)

UNSPSC: Electric power system construction service

Specifications / Requirements:

Supply and installation of DC MCB, 2P, 32A (1000VDC) Brand: Chint, CNC or equivalent These devices must be approved by technical committee

Item: Supply & Installation 3-step lever-operated changeover switch rated for 1000 V DC

UNSPSC: Electric power system construction service

Specifications / Requirements:

3-step lever-operated changeover switch rated for 1000 V DC, provided for each hybrid inverter to enable safe isolation and manual bypass of the inverter in the event of a fault or maintenance. The switch shall have Normal-OFF-Bypass operating positions, suitable for the system DC voltage and current, with arc-extinguishing capability, lockable handle, clear position indication, and compliance with applicable IEC standards.

Item: Civil works required

UNSPSC: Electric power system construction service

Specifications / Requirements:

Civil works required for safe crossing of roads by underground DC, AC, or earthing cables. The work shall include excavation, installation of HDPE/RCC protective conduits, sand bedding, concrete encasement (where required), backfilling, compaction, road restoration to its original condition

Item: Supply and installation of 4 pole AC Surge Protection Device Type 2 65/40 kA as per site requirement

UNSPSC: Electric power system construction service

Specifications / Requirements:

Supply and installation of 4 pole AC Surge Protection Device Type 2 65/40 kA as per site requirement Brand: Chint, CNC All protection devices should conform to IEC 60947-2 / IEC 60898-2 or equivalent international standards. These devices must be approved by technical committee

Item: Supply and installation of 2 pole DC Surge Protection Device Type 2 65/40 kA as per site requirement

UNSPSC: Electric power system construction service

Specifications / Requirements:

Supply and installation of 2 pole DC Surge Protection Device Type 2 65/40 kA as per site requirement Brand: Chint, CNC All protection devices should conform to IEC 60947-2 / IEC 60898-2 or equivalent international standards.

Item: Supply & Installation of DC DB Boxes for DC breakers and SPDs with complete internal wiring

UNSPSC: Electric power system construction service

Specifications / Requirements:

Supply & Installation of DC DB Boxes for DC breakers and SPDs with complete internal wiring required for each inverter along with Reflectors Labelling on DB.

Item: Supply & Installation of DC DB Boxes for DC breakers and SPDs with complete internal wiring required for each inverter along with Reflectors Labelling on DB.

UNSPSC: Electric power system construction service

Specifications / Requirements:

Supply & Installation of DC DB Boxes for DC breakers and SPDs with complete internal wiring required for each inverter along with Reflectors Labelling on DB.

Item: Supply & Installation of AC DB Boxes for AC breakers & SPD.

UNSPSC: Electric power system construction service

Specifications / Requirements:

Supply & Installation of AC DB Boxes for AC breakers & SPD. With complete internal wiring along with Reflectors Labelling on DB.

Item: Supply & Installation of AC Combiner Box (including 4 pole 400 A MCCB)

UNSPSC: Electric power system construction service

Specifications / Requirements:

Supply & Installation of AC Combiner Box (including 4 pole 400 A MCCB) for 1x4P Breaker along with 4x 400 AMP bus bars and one bus bar for Grounding. Phase indicators.

Item: Supply & Installation of 3 Step Change Over Switch 3phase 200A

UNSPSC: Electric power system construction service

Specifications / Requirements:

Supply & Installation of 3 Step Change Over Switch 3phase 200A, required to bypass dual outputs of each inverter must be approved by technical committee.

Item: Supply and installation of MC4 Connectors IP67 Good quality

UNSPSC: Electric power system construction service

Specifications / Requirements:

Supply and installation of MC4 Connectors IP67 Good quality, Pipe 4" Good Quality 2 mm thickness, Bends, PVC, GI cable trays with cover and hinges complete in all respect and other miscellaneous items as per site requirement

Item: Complete supply, installation, testing, commissioning, and successful operation of the entire solar photovoltaic (PV) system,

UNSPSC: Electric power system construction service

Specifications / Requirements:

Complete supply, installation, testing, commissioning, and successful operation of the entire solar photovoltaic (PV) system, including all associated equipment, accessories, and interconnections. The scope of work shall include, but not be limited to, the following:

- Supply and installation of High-Density Polyethylene (HDPE) pipe conduits (PN12.5 SDR100) complete with fittings (Elbow and Tee and sockets PN16) for routing and mechanical protection of DC, AC, communication, and control cables.
- Supply and installation of Bends, PVC
- Installation of all PV modules, mounting structures, inverters, batteries DC/AC cables, DBs, protection devices, earthing and lightning protection systems in accordance with approved drawings, manufacturer's recommendations, IEC standards, and local electrical regulations.
- Proper routing, termination, identification, and dressing of all cables with

suitable cable trays, conduits, glands, lugs, ferrules, and labeling. • Mechanical alignment, tightening, and verification of all equipment to ensure safe and reliable operation. • Configuration and programming of inverters, battery management systems (BMS), energy meters, data loggers, communication devices, and remote monitoring systems.

Item: Supply, Design, Installation & Commissioning of PV Gen-Set Synchronizer with Changeover for three inputs (Wapda, Genset, Solar)

UNSPSC: Electric power system construction service

Specifications / Requirements:

Supply, Design, Installation & Commissioning of PV Gen-Set Synchronizer with Changeover for three inputs (Wapda, Genset, Solar) with priority selection scheme interlink with hybrid inverters. Appropriate No of magnetic contactors. 14 Gauge GI for outdoor box. PV Genset Synchronization System with one year warranty. Two 50 kW inverters of S block will be synchronized with 135 kVA DG set and two 50 kW inverters of C block will be synchronized with 150 kVA DG set.

Item: Load segregation Job

UNSPSC: Electric power system construction service

Specifications / Requirements:

Load segregation Job, redistribution, and connection of Distribution Boards (DBs) by supplying the AC cables or any other accessories required. In accordance with the requirements of the technical team to ensure optimum utilization of the hybrid solar system, prioritization of critical loads, balanced load distribution. All modifications, testing, labeling, and commissioning shall be completed in all respects.

Item: Complete net-metering integration including load flow analysis, Enhancement of sanctioned load, bidirectional meters and inverter synchronization with utility grid.

UNSPSC: Electric power system construction service

Specifications / Requirements:

Complete net-metering integration including load flow analysis, Enhancement of sanctioned load, bidirectional meters and inverter synchronization with utility grid.



Price Schedule

For Individual Items

#	Item Title	Quantity	Unit Price (PKR)	Total Price (PKR)	Delivery Location	Delivery Period / Year	Country of Origin
1							
2							

For Lots

#	Lot Title	Total Lot Price (PKR)	Country of Origin
1	[Lot 1 Title]		





General Conditions of Contract

A. General

1. Definitions

1.1 Unless the context otherwise requires, the following terms whenever used in this Contract shall have the same meaning and shall be interpreted as indicated

- a. "Applicable Law" means the laws and any other instruments having the force of law in the Government's Country, or in such other country as may be specified in the Special Conditions of the Contract (SC), as they may be issued and in force from time to time;
- b. "Procuring Agency" means:-
 - a. any Ministry, Division, Department or any Office of the Government;
 - b. any authority, corporation, body or organization established by or under a Law or which is owned or controlled by the Government;
- c. "The Contract" means an agreement enforceable by law;
- d. "The Contract Price" means the price payable to the Bidder under the Contract for the full and proper performance of its contractual obligations;
- e. "Ancillary Services" means those services ancillary to the provision of Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Bidder covered under the Contract;
- f. "GCC" means the General Conditions of Contract contained in this section;
- g. "SCC" means the Special Conditions of Contract by which the GCC may be amended or supplemented;
- h. "Day" means calendar day unless indicated otherwise.
- i. "Effective Date" means the date on which this Contract comes into force and effect.
- j. "The Bidder" means the individual or corporate body whose Bids to provide the Goods has been accepted by the Procuring Agency;
- k. "The Project Site," where applicable, means the place or places named in Bids Data Sheet and technical Specifications;
- l. "Government" means the Government of Pakistan;
- m. "Subcontractor" means any entity to which the Bidder subcontracts any part of the Goods.
- n. "Service" means any object of procurement other than goods or works;
- o. "Party" means the Procuring Agency or the Bidder, as the case may be, and "Parties" means both of them;
- p. "Foreign Currency" means any currency other than the currency of the country of the Procuring Agency;

- q. "Completion Date" means the date of completion of the contract by the Bidder as certified by the Procuring Agency;
- r. "In Writing" means communicated in written form with proof of receipt;
- s. "Local Currency" means the currency of Pakistan;

2. Application and Interpretation

2.1 These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.

2.2 In interpreting these Conditions of Contract headings and marginal notes are used for convenience only and shall not affect their interpretations unless specifically stated; references to singular include the plural and vice versa; and masculine include the feminine. Words have their ordinary meaning under the language of the Contract unless specifically defined.

3. Applicable Law

3.1 The contract shall be governed and interpreted in accordance with the laws of Pakistan, unless otherwise specified in SCC.

4. Governing Language

4.1 The Contract as well as all correspondence and documents relating to the Contract exchanged between the Bidder and the Procuring Agency, shall be written in the **English language** unless otherwise stated in the SCC. Supporting documents and printed literature that are part of the Contract may be in another language provided these are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Contract, this translation shall govern.

5. Notices

5.1 Any notice, request, or consent made pursuant to this Contract shall be in writing and shall be deemed to have been made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent by registered mail, telex, telegram, or facsimile to such Party at the address specified in the SCC.

6. Delivery/Location

6.1 The Goods shall be delivered to such locations as the Procuring Agency may approve and as specified in SCC.

7. Authorized Representatives / Authority of Member in charge

7.1 Any action required or permitted to be taken, and any document required or permitted to be executed, under this Contract by the Procuring Agency or the Bidder may be taken or executed by the officials specified in the SCC.

B. Commencement, Completion, Modification, and Termination of Contract

8. Effectiveness of Contract

8.1 This Contract shall come into effect on the date the Contract is signed by both parties and such other later date as may be stated in the SCC.

9. Commencement of Services

9.1 The Bidder shall confirm availability of Key Experts and begin carrying out the Services not later than the number of days after the Effective Date specified in the SCC.

10. Program

10.1 Before commencement of the Services, the Bidder shall submit to the Procuring Agency for approval a Program showing the general methods, arrangements, order and timing for all activities. The Services shall be carried out in accordance with the approved Program as updated.

11. Starting Date/Expiration Date

11.1 The Bidder shall start carrying out the Services Five (05) days after the date the Contract becomes effective, or at such other date as may be specified in the SCC.

11.2 Unless terminated earlier pursuant to Clause **GCC 15** hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the SCC.

12. Entire Agreement

12.1 This Contract contains all covenants, stipulations and provisions agreed by the Parties. No agent or representative of either Party has authority to make, and the Parties shall not be bound by or be liable for, any statement, representation, promise or agreement not set forth herein.

13. Modification

13.1 Any modification or variation of the terms and conditions of this Contract, including any modification or variation of the scope of the Services, may only be made by written agreement between the Parties. However, each Party shall give due consideration to any Bids for modification or variation made by the other Party.

13.2 In cases of any modifications or variations, the prior written consent of the Procuring Agency is required.

14. Force Majeure

14.1 Definition

For the purposes of this Contract, “Force Majeure” means an event which is beyond the reasonable control of a Party and which makes a Party’s performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.

14.2 No Breach of Contract

The failure of a Party to fulfill any of its obligations under the contract shall not be considered to be a breach of, or default under, this Contract in so far as such inability arises from an event of Force Majeure, provided that the Party affected by such an event (a) has taken all reasonable precautions, due care and reasonable alternative measures in order to carry out the terms and conditions of this Contract, and (b) has informed the other Party as soon as possible about the occurrence of such an event.

14.3 Extension of Time

Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result

of Force Majeure.

14.4 Payments

During the period of their inability to perform the Services as a result of an event of Force Majeure, the Bidder shall be entitled to continue to be paid under the terms of this Contract, as well as to be reimbursed for additional costs reasonably and necessarily incurred by them during such period for the purposes of the Services and in reactivating the Service after the end of such period.

15. Termination

15.1 By the Procuring Agency

The Procuring Agency may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (e) of this Clause. In such an occurrence the Procuring Agency shall give at least thirty (30) calendar days' written notice of termination to the Bidder in case of the events referred to in (a) through (d); at least sixty (60) calendar days' written notice in case of the event referred to in (e);

- a. If the Bidder fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension;
- b. If the Bidder becomes (or, if the Bidder consists of more than one entity, if any of its members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary;
- c. If the Bidder fails to comply with any final decision reached as a result of arbitration proceedings;
- d. If, as the result of Force Majeure, the Bidder is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;
- e. If the Procuring Agency, in its sole discretion and for any reason whatsoever, decides to terminate this Contract;

15.2 By the Bidder

The Bidder may terminate this Contract, by not less than thirty (30) calendar days' written notice to the Procuring Agency, in case of the occurrence of any of the events specified in paragraphs (a) through (d) of this Clause.

- a. If the Procuring Agency fails to pay any money due to the Bidder pursuant to this Contract and not subject to dispute within forty-five (45) calendar days after receiving written notice from the Bidder that such payment is overdue.
- b. If, as the result of Force Majeure, the Bidder is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days.
- c. If the Procuring Agency fails to comply with any final decision reached as a result of arbitration.
- d. If the Procuring Agency is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Bidder may have subsequently approved in writing) following the receipt by the Procuring Agency of the Bidder's notice specifying such breach.

C. Obligations of the Bidder

16. General

16.1 Standard of Performance

1. The Bidder shall deliver the product and carry out the Services with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Bidder shall always act, in respect of any matter relating to this Contract or to the Services, as a faithful adviser to the Procuring Agency, and shall at all times support and safeguard the Procuring Agency's legitimate interests in any dealings with the third parties.

16.2 Law Applicable to Goods

The Bidder shall deliver the goods in accordance with the Contract and in accordance with the Law of Pakistan and shall take all practicable steps to ensure that any of its Experts and Sub-Bidders, comply with the Applicable Law.

17. Conflict of Interests

17.1 Bidder Not to Benefit from Commissions and Discounts.

The remuneration of the Bidder shall constitute the Bidder's sole remuneration in connection with this Contract or the Services, and the Bidder shall not accept for their own benefit any trade commission, discount, or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of their obligations under the Contract, and the Bidder shall use their best efforts to ensure that the Personnel, any Subcontractors, and agents of either of them similarly shall not receive any such additional remuneration.

17.2 Bidder and Affiliates Not to be Otherwise Interested in Project

The Bidder agree that, during the term of this Contract and after its termination, the Bidder and its affiliates, as well as any Subcontractor and any of its affiliates, shall be disqualified from providing Goods for any project resulting from or closely related to the Services.

17.3 Prohibition of Conflicting Activities

Neither the Bidder nor its Subcontractors nor the Personnel shall engage, either directly or indirectly, in any of the following activities:

- a. during the term of this Contract, any business or professional activities in the Government's country which would conflict with the activities assigned to them under this Contract;
- b. during the term of this Contract, neither the Bidder nor their Subcontractors shall hire public employees in active duty or on any type of leave, to perform any activity under this Contract;

18. Confidentiality

18.1 Except with the prior written consent of the Procuring Agency, the Bidder and the Experts shall not at any time communicate to any person or entity any confidential information acquired in the course of the contract.

19. Insurance to be Taken Out by the Bidder

19.1 The Bidder(a) shall take out and maintain, and shall cause any Subcontractors to take out and maintain, at its (or the Subcontractors', as the case may be) own cost but on terms and conditions approved by the Procuring Agency, insurance against the risks, loss or damage, and for the coverage, as shall be specified in the SCC; and (b) at the Procuring Agency's request, shall provide evidence to the Procuring Agency showing that such insurance has been taken out and maintained and that the current premiums have been paid.

20. Bidder's Actions Requiring Procuring Agency's Prior Approval

20.1 The Bidder shall obtain the Procuring Agency's prior approval in writing before taking any of the following actions:

- (a) appointing such members of the Personnel not provided by the Bidder;
- (b) changing the Program of activities; and
- (c) any other action that may be specified in the SCC.

21. Reporting Obligations

21.1 The Bidder shall submit to the Procuring Agency the reports and documents in the numbers, and within the periods as prescribed by the Procuring Agency.

22. Liquidated Damages

22.1 If the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring Agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the performance security (or guarantee) specified in SCC. Once the said maximum is reached, the Procuring Agency may consider termination of the Contract pursuant to **GCC Clause 15**.

22.2 Correction for Over-payment

If the Intended Completion Date is extended after liquidated damages have been paid, the Procuring Agency shall correct any overpayment of liquidated damages by the Bidder by adjusting the next payment certificate. The Bidder shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in SCC.

22.3 Lack of performance penalty

If the Bidder has not corrected a Defect within the time specified in the Procuring Agency's notice, a penalty for Lack of performance will be paid by the Bidder. The amount to be paid will be calculated as a percentage of the cost of having the Defect corrected, assessed as specified in the SCC.

23. Performance Guarantee

23.1 Within Seven (07) days from the issuance of acceptance letter from the Procuring Agency, the successful Bidder shall furnish the Performance Guarantee in shape of ----- at the discretion of the PA in the amount **specified in SCC**. In case the amount of Bids security is equal or greater than

23.2 The proceeds of the Performance Guarantee shall be payable to the Procuring agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

23.3 The Performance Guarantee shall be denominated in the currency of the Contract, or in a freely convertible currency acceptable to the Procuring agency and shall be in the acceptable form as specified in SCC.

23.4 The Performance Guarantee will be discharged by the Procuring agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless otherwise **specified in SCC**.

24. Fraud and Corruption

24.1 The Procuring Agency requires the Supplier to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the Bidding process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.

25. Sustainable Procurement

25.1 The Bidder shall conform to the sustainable procurement contractual provisions, if and as specified in the SCC.

D. Bidder's Personnel

26. Description of Personnel

26.1 The titles, agreed job descriptions, minimum qualifications, and estimated periods of engagement in the carrying out of the Services of the Bidder's Key Personnel. The Key Personnel listed by title as well as by name are hereby approved by the Procuring Agency.

27. Removal and/or Replacement of Personnel

27.1 Except as the Procuring Agency may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Bidder, it becomes necessary to replace any of the Key Personnel, the Bidder shall provide as a replacement a person of equivalent or better qualifications.

27.2 If the Procuring Agency finds that any of the Personnel have (i) committed serious misconduct or have been charged with having committed a criminal action, or (ii) have reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Bidder shall, at the Procuring Agency's written request specifying the grounds thereof, provide as a replacement a person with qualifications and experience acceptable to the Procuring Agency.

27.3 The Bidder shall have no claim for additional costs arising out of or incidental to any removal and/or replacement of Personnel.

E. Obligations of the Procuring Agency

28. Assistance and Exemptions

28.1 The Procuring Agency shall use its best efforts to ensure that the Government shall provide the Bidder such assistance and exemptions as specified in the SCC.

29. Change in the Applicable Law

29.1 If, after the date of this Contract, there is any change in the Applicable Law with respect to taxes and duties which increases or decreases the cost of the related Services rendered by the Bidder, then the remuneration and reimbursable expenses otherwise payable to the Bidder under this Contract shall be increased or decreased accordingly by agreement between the Parties, and corresponding adjustments shall be made to the amounts referred in the SCC.

30. Services and Facilities

30.1 The Procuring Agency shall make available to the Bidder and the Experts, for the purposes of the Services and free of any charge, the services, facilities and property described , at the times and in the manner specified in the SCC or terms of reference.

30.2 In case that such services, facilities and property shall not be made available to the Bidder, the Parties shall agree on (i) any time extension that it may be appropriate to grant to the Bidder for the performance of the Services, (ii) the manner in which the Bidder shall procure any such services, facilities and property from other sources, and (iii) the additional payments, if any, to be made to the Bidder as a result thereof.

F. Payments to the Bidder

31. Contract Price

31.1 The price payable shall be in Pakistani Rupees unless otherwise specified in the SCC. Prices charged by the Supplier for Goods delivered under the Contract shall not vary from the prices quoted by the Supplier in its Bid.

32. Terms and Conditions of Payment

32.1 Payments will be made to the Bidder according to the payment schedule stated in the SCC and as per actual invoice submitted by the Bidder.

32.2 Unless otherwise stated in the SCC, the advance payment shall be made against the provision by the Bidder of a bank guarantee for the same amount, and shall be valid for the period stated in the SCC. Any other payment shall be made after the conditions listed in the SCC for such payment have been met, and the Bidder have submitted an invoice to the Procuring Agency specifying the amount due.

33. Currency of Payment

33.1 Any payment under this Contract shall be made in the currency(ies) specified in the SCC.

G. Quality Control

34. Identifying Defects

34.1 The principle and modalities of Inspection of the Goods by the Procuring Agency shall be as indicated in the SCC. The Procuring Agency shall check the Bidder's performance and notify him of any Defects that are found. Such checking shall not affect the Bidder's responsibilities. The Procuring Agency may instruct the Bidder to search for a Defect and to uncover and test any service that the Procuring Agency considers may have a Defect. Defect Liability Period is as defined in the SCC.

35. Correction of Defects, and

Lack of Performance Penalty

35.1 The Procuring Agency shall give notice to the Bidder of any Defects before the end of the Contract. The Defects liability period shall be extended for as long as Defects remain to be corrected.

35.2 Every time notice a Defect is given, the Bidder shall correct the notified Defect within the length of time specified by the Procuring Agency's notice.

35.3 If the Bidder has not corrected a Defect within the time specified in the Procuring Agency's notice, the Procuring Agency will assess the cost of having the Defect corrected, the Bidder will pay this amount, and a Penalty for Lack of Performance.

36. Taxes and Duties

36.1 A Supplier shall be entirely responsible for all taxes, duties, fees, etc., incurred until delivery of the contracted Goods to the Procuring Agency.

H. Settlement of Disputes

37. Alternate Dispute Resolution

37.1 The disputes between the parties to the contract may be settled in accordance with Public Procurement Rules, 2004.

37.2 The procuring agency shall refer the matter to the Chief Justice Islamabad High Court or Managing Director PPRA or the Secretary Ministry of Law & Justice for appointment of Arbitrator.

37.3 The fee for the Arbitrator shall be specified in Pak Rupees as determined by the appointing authority which shall be borne and shared equally by the contracting parties.



Special Conditions of Contract

SECTION VIII. SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

Number of GC Clause

Amendments of, and Supplements to, Clauses in the General Conditions of Contract

Number of GC Clause 1

Definitions

The Procuring Agency is: COMSATS University Islamabad, Abbottabad Campus) (Comsats University, Islamabad), Purchase Officer COMSATS University Islamabad, Abbottabad Campus Tobe Camp, University Road,, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province).

The Supplier is:

The title of the subject procurement is: Tender for Supply, Installation, Testing & Commissioning of 160 KW Hybrid Solar Photovoltaic system

Number of GC Clause 3

Applicable/Governing Law:

The Contract shall be interpreted in accordance with the laws of Islamic Republic of Pakistan

Number of GC Clause 4

Language:

The language of the Contract, all correspondence and communications to be given, and all other documentation to be prepared and supplied under the Contract shall be in **English**.

Number of GC Clause 5

Notices:

The addresses for the notices are:

Procuring Agency:

COMSATS University Islamabad, Abbottabad Campus) (Comsats University, Islamabad), Purchase Officer COMSATS University Islamabad, Abbottabad Campus Tobe Camp, University Road,, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province).
+92-343-525-8373
nisarahmed@cuiatd.edu.pk

Contractor/ Bidder:

[Name, address and telephone number].

The Contractor/ Bidder's Representative(s)

[Name, address, telephone number and e-mail address]

Number of GC Clause 7.1

The Authorized Representatives are:

For the Procuring Agency:

COMSATS University Islamabad, Abbottabad Campus) (Comsats University, Islamabad), Purchase Officer
COMSATS University Islamabad, Abbottabad Campus Tobe Camp, University Road,, Abbottabad,
Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province).

+92-343-525-8373

nisarahmed@cuiatd.edu.pk

For the Bidder:

Name:

Designation:

Address:

Number of GC Clause 8

Effectiveness of the contract

Number of GC Clause 9

Commencement of Contract:

Number of GC Clause 11.2

Expiration of Contract:

Number of GC Clause 15

Termination

In the event of termination of the contract due to any reason as already defined in the General Conditions of Contract, the Bidder shall be responsible for providing to the Authority the Goods till the time of alternate arrangements.

Number of GC Clause 17

Conflict of Interest:

The Procuring Agency reserves the right to determine on a case-by-case basis whether the Bidder should be disqualified from providing goods or services due to a conflict of a nature described in Clause GCC 17.

Number of GC Clause 22

Liquidated Damages

If the Bidder fails to provide services as required under the contract or in case of any data loss/data breach or any incident compromising the data security or other such failures related to any services, the Bidder shall pay to the Procuring Agency as Liquidated Damages at a rate of **0.10% to 10.00%** of the Contract value, in accordance with the extent of performance failure & the cost of investigating such incidents as judged by the Authority.

Number of GC Clause 23

Performance Guarantee:

The amount of performance guarantee shall be **5.00%** of the contract price in acceptable form of **Bank Guarantee**

Number of GC Clause 32

Payment terms:

Payment will be made to the Bidder against the procured Goods and services according to the actual invoice or running bills submitted by the Bidder against the services provided within the time given in the conditions of the contract.

Number of GC Clause 33

Currency of Payment:

All the payment to be released to the contractor/Bidder shall be in Pakistani Rupees.

Number of GC Clause 34

Identifying Defects:

The Authority reserves the right at any time to inspect the premises of the provider to inspect the goods and monitor the goods being provided.

Inspections & Tests Requirements

For being Brand New, bearing relevant reference numbers of the equipment/ On line Verifiable Code of PV Panel & Inverters (Certificate from supplier)

For Physical Fitness having No Damages (Certificate from supplier)

For the Country of Origin as quoted by the Supplier (Certificate from Supplier on Stamp Paper)

For conformance to specifications and performance parameters (Conformance Certificate by Supplier)

The Manufacturing Date of Battery Should not be older than 6 Months on the date of Installation, Testing & Commissioning.

For successful operation at site after complete installation, testing and commissioning of the equipment (Installation, Testing and Commissioning Report by Procurement Committee / Inspection Team)

Delivery & Documents

Copies of the Supplier's invoice showing Goods' description, quantity, Make & Model, unit price, and total amount inclusive of all Taxes (Payment will be made after Successful Supply, Installation, Testing & Commissioning of The Project)

Copies of the packing list/ Delivery Challan identifying contents of each package;

Manufacturer's or Supplier's Valid verifiable Warranty Certificate for Solar PV Panel, Inverters and Battery is mandatory

Number of GC Clause 37

Following is the guidance for Dispute Resolution

- i. If any dispute of any kind whatsoever shall arise between the Authority and the Bidder in connection with or arising out of the Contract, including without prejudice to the generality of foregoing, any question regarding its existence, validity, termination and the execution of the Contract – whether during developing phase or after their completion and whether before or after the termination, abandonment or breach of the Contract – the parties shall seek to resolve any such dispute or difference by mutual diligent negotiations in good faith within 14 (fourteen) days following a notice sent by one Party to the other Party in this regard.
- ii. At future of negotiation the dispute shall be resolved through mediation and mediator shall be appointed with the mutual consent of the both parties.
- iii. At the event of failure of mediation to resolve the dispute relating to this contract such dispute shall finally be resolved through binding Arbitration by sole arbitrator in accordance with Arbitration Act 1940. The arbitrator shall be appointed by mutual consent of the both parties. The Arbitration shall take place in Islamabad, Pakistan and proceedings will be conducted in English language.
- iv. The cost of the mediation and arbitration shall be shared by the parties in equal proportion however the both parties shall bear their own costs and lawyer's fees regarding their own participation in the mediation and arbitration. However, the Arbitrator may make an award of costs upon the conclusion of the arbitration making any party to the dispute liable to pay the costs of another party to the dispute.
- v. Arbitration proceedings as mentioned in the above clause regarding resolution of disputes may be commenced prior to, during or after completion of the contract.

Notwithstanding any reference to the arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree that the Authority shall pay the Bidder any monies due to the Bidder.

Rules of procedure for arbitration proceedings:

Any dispute between the Authority and a Bidder who is a national of the Islamic Republic of Pakistan arising in connection with the present Contract shall be referred to adjudication or arbitration in accordance with the laws of the Islamic Republic of Pakistan including Arbitration Act 1940, however above provision shall prevail in referring the case to the Arbitrator.

Place of Arbitration and Award:

The arbitration shall be conducted in English language and place of arbitration shall be at Islamabad. The award of the arbitrator shall be final and shall be binding on the parties.



Bid Securing Declaration

Form 9: Bid Securing Declaration

Date: *[insert date (as day, month and year)]*

Bid No.: **P76837**

To: **COMSATS University Islamabad, Abbottabad Campus) (Comsats University, Islamabad), Purchase Officer COMSATS University Islamabad, Abbottabad Campus Tobe Camp, University Road,, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province).**

We, the undersigned, declare that:

We understand that, according to your conditions, Bids must be supported by a Bid Securing Declaration.

We accept that we will be blacklisted and henceforth cross debarred for participating in respective category of public procurement proceedings for a period of (not more than) six months, if fail to abide with a bid securing declaration, however without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we:

1. have withdrawn or modified our Bid during the period of Bid Validity specified in the Form of Bid;
2. Disagreement to arithmetical correction made to the Bid price; or
3. having been notified of the acceptance of our Bid by the Procuring Agency during the period of Bid Validity, (i) failure to sign the contract if required by Procuring Agency to do so or (ii) fail or refuse to furnish the Performance Security or to comply with any other condition precedent to signing the contract specified in the Bidding Documents.

We understand this Bid Securing Declaration shall expire if we are not the successful

Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight (28) days after the expiration of our Bid.



Contract Form

SECTION IX: CONTRACT FORMS

THIS AGREEMENT made the ____ day of _____ 20____ between **COMSATS University Islamabad, Abbottabad Campus) (Comsats University, Islamabad), Purchase Officer COMSATS University Islamabad, Abbottabad Campus Tobe Camp, University Road,, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province).**

(hereinafter called “the Procuring Agency”) of the one part and [name of Bidder] of [city and country of Bidder] (hereinafter called “the Bidder”) of the other part:

WHEREAS the Procuring Agency invited Bids for provision of goods, viz., **Tender for Supply, Installation, Testing & Commissioning of 160 KW Hybrid Solar Photovoltaic system (P76837)** and has accepted a Bids by the Bidder for the provision of Goods in the sum of [contract price in words and figures] (hereinafter called “the Contract Price”).

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

1. In this Contract words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

2. The following documents shall be deemed to form and be read and construed as part of this Contract, In the event of any ambiguity or conflict between the Contract Documents listed below, the order of precedence shall be the order in which the Contract Documents are listed below:-

1. This form of Contract;
2. the Form of Bids and the Price Schedule submitted by the Bidder;
3. the Schedule of Requirements;
4. the Technical Specifications;
5. the Special Conditions of Contract;
6. the General Conditions of the Contract;
7. the Procuring Agency’s Letter of Acceptance; and
8. [add here: any other documents]

3. In consideration of the payments to be made by the Procuring Agency to the Bidder as hereinafter mentioned, the Bidder hereby covenants with the Procuring Agency to provide the Goods related services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Procuring Agency hereby covenants to pay the Bidder in consideration of the provision of Goods and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS whereof the parties hereto have caused this Contract to be executed in accordance with their respective laws the day and year first above written.

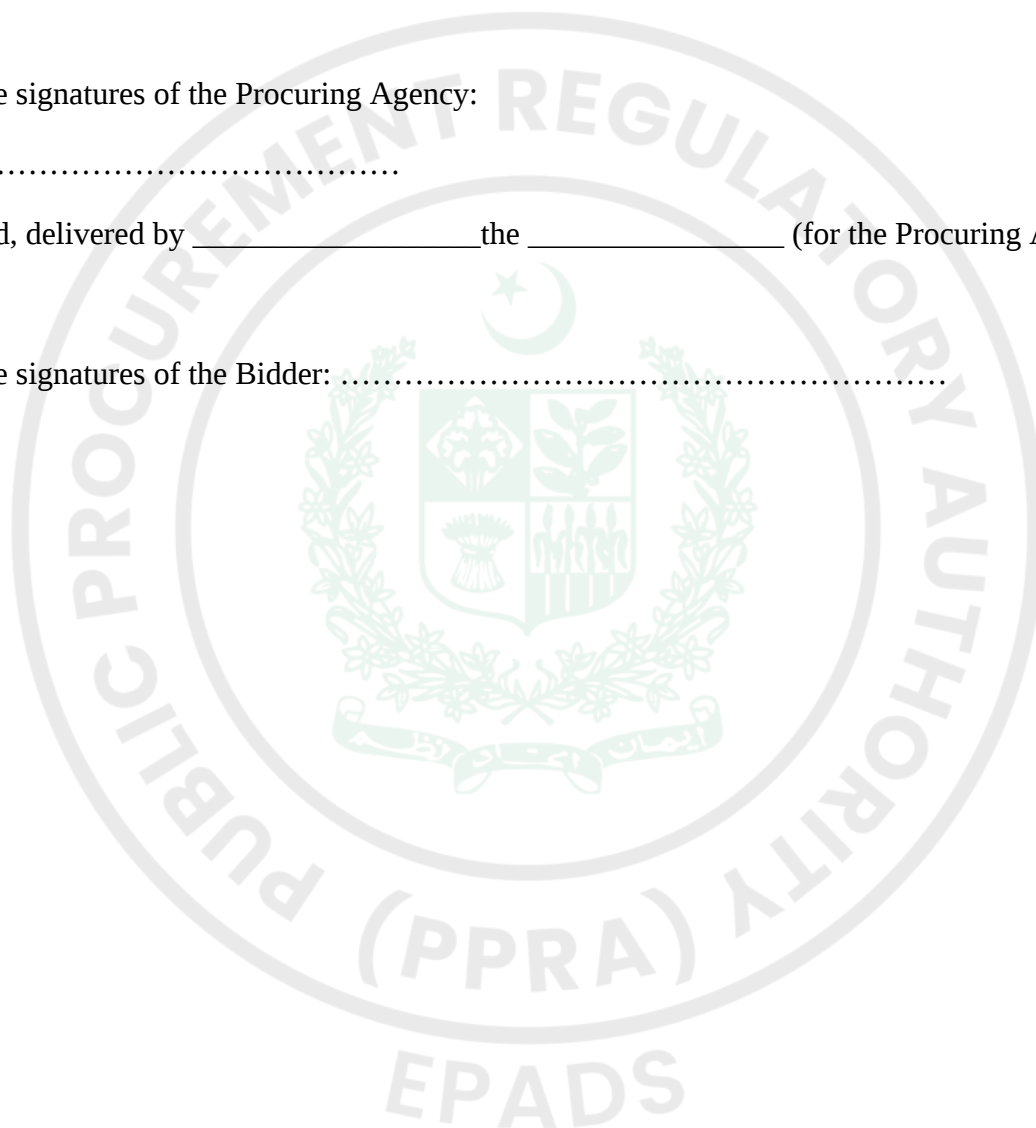
Signed, sealed, delivered by _____ the _____ (for the Procuring Agency)

Witness to the signatures of the Procuring Agency:

.....

Signed, sealed, delivered by _____ the _____ (for the Procuring Agency)

Witness to the signatures of the Bidder:





Integrity Pact

Integrity Pact

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS.10.00 MILLION OR MORE

Contract

Number: Contract

Value: Contract Title:

Dated:

[Name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing [Name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fee etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultations fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

[Name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representative or warranty.

[Name of Supplier] accepts full responsibility and strict liability for making and false declaration, not making full disclosure, misrepresenting fact or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [Name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [Name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.



Performance Guarantee Form

Performance Guarantee Form

To: COMSATS University Islamabad, Abbottabad Campus) (Comsats University, Islamabad), Purchase Officer COMSATS University Islamabad, Abbottabad Campus Tobe Camp, University Road,, Abbottabad, Abbottabad (District), Hazara Division (Division), Khyber Pakhtunkhwa (KP) (Province).

WHEREAS *[name of Bidder]* (hereinafter called “the Bidder”) has undertaken, in pursuance of Contract No. *[reference number of the contract]* dated *[insert date]* for provision of Goods(hereinafter called “the Contract”).

AND WHEREAS it has been stipulated by you in the said Contract that the Bidder shall furnish you with a Bank Guarantee by a reputable bank for the sum specified therein as security for compliance with the Bidder’s performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Bidders guarantee:

THEREFORE, WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Bidder, up to a total of *[amount of the guarantee in words and figures]*, and we undertake to pay you, upon your first written demand declaring the Bidder to be in default under the Contract and without cavil or argument, any sum or sums within the limits of *[amount of guarantee]* as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the: *[insert date]*

Signature and seal of the Guarantors

[name of bank or financial institution]

[address]

[date]





Annexure

Annex- A (BOQ along with Clarification)

Technical Submission (Vendor)

Document Required

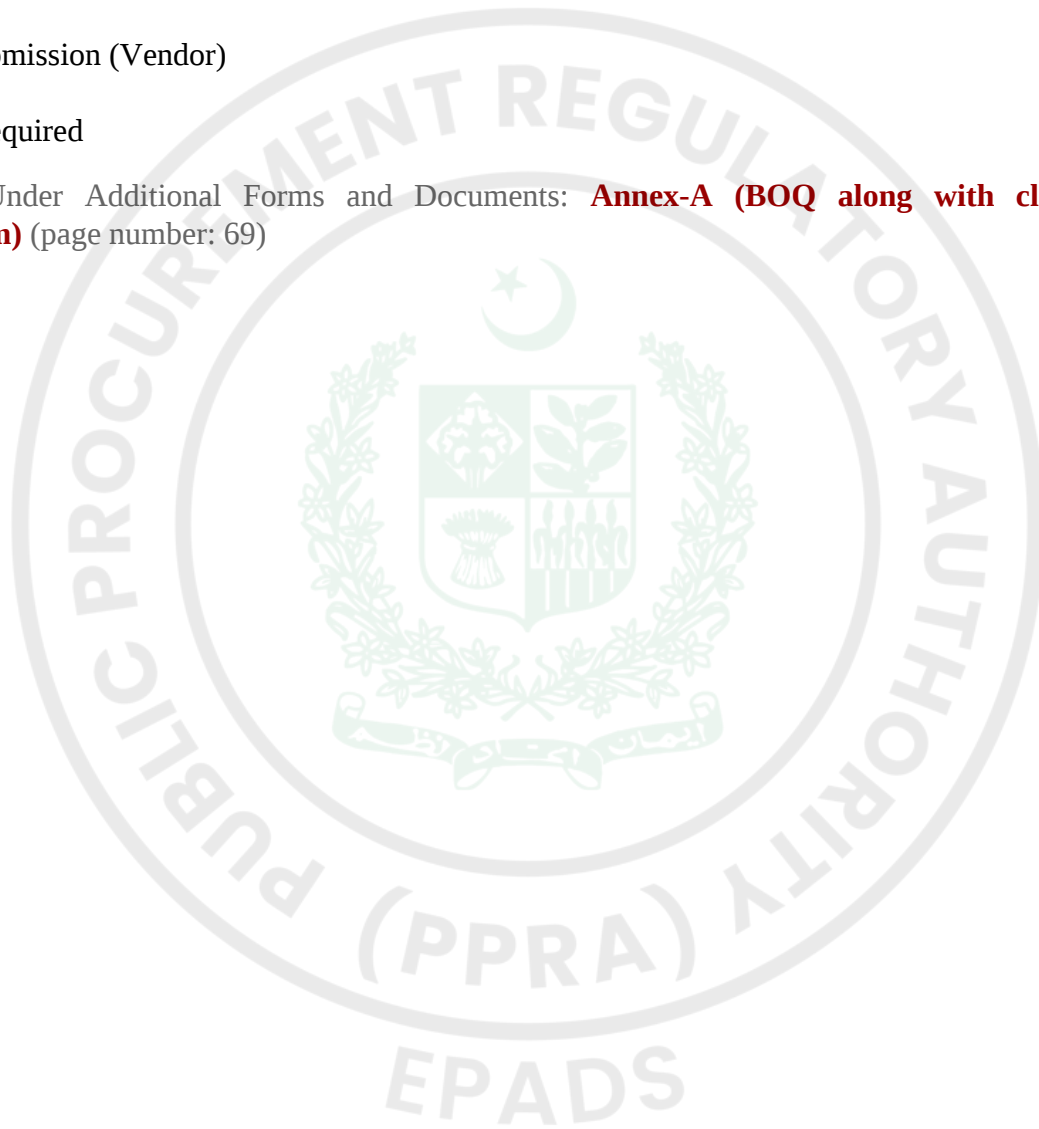
See Form Under Additional Forms and Documents: **Annex- A (BOQ along with Clarification)** (page number: 60)

Annex-A (BOQ along with clarification as Corrigendum)

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Annex-A (BOQ along with clarification as Corrigendum)** (page number: 69)





Procurement Forms

Contractor's Key Personnel Representative and Their Schedules

The Contractor is required to provide the detail (Experience & Qualification) of its key Technical Personnel working on Hybrid Solar Photovoltaic System Projects

See Form Under Additional Forms and Documents: **Contractor's Key Personnel Representative and Their Schedules** (page number: 79)

Financial Resources

See Form Under Additional Forms and Documents: **Financial Resources** (page number: 83)

Past Experience and Completed Contracts

The Minimum Five Years relevant working Experience in Supply Installation, Testing & Commissioning of Solar PV Photovoltaic Systems is Mandatory.

The vendor is required to provide/attach detail of Successfully Completed/executed at least Three (03) similar contracts/work Orders of 100 kw Solar Photovoltaic Project or above in Last Five Years, each CONTRACT with different Client.

The reference Letter/Certificate of Successful completion along with copy of Contract/work Order issued by the respective client must be attached.

See Form Under Additional Forms and Documents: **Past Experience and Completed Contracts** (page number: 84)

Historical Contract Non-Performance, and Pending Litigation and Litigation History

See Form Under Additional Forms and Documents: **Historical Contract Non-Performance, and Pending Litigation and Litigation History** (page number: 85)

Current Contracts and Their Progress

Attach The Copies of Current Contract/Work Orders and their Progress

See Form Under Additional Forms and Documents: **Current Contracts and Their Progress** (page number: 87)

Financial Capacity and Net Worth Evaluation Form

Attach relevant Documents

See Form Under Additional Forms and Documents: **Financial Capacity and Net Worth Evaluation Form** (page number: 88)

Average Annual Turnover

The Average Turnover of The bidder for Last Three Year should be at least 30 Million or Above/More.

See Form Under Additional Forms and Documents: **Average Annual Turnover** (page number: 90)







Additional Forms and Documents

Supply, Installation, Testing and Commissioning of 160 KW Hybrid Solar Photovoltaic System at COMSATS University Islamabad, Abbottabad (Dhamtore Campus)

The proposed project comprises the supply, installation, testing, and commissioning of a 160-kW hybrid solar photovoltaic (PV) system for two academic buildings, namely S-Block and C-Block.

Each academic block shall be equipped with an 80-kW solar PV array, 100 kW hybrid inverter capacity (configured as 2×50 kW hybrid inverters), and a 60 kWh high-voltage lithium Battery energy storage system (BESS). The proposed hybrid systems will operate in coordination with the existing utility supply and standby diesel generators to ensure uninterrupted operation during grid outages.

The existing electrical infrastructure comprises a 400 kVA transformer and a 150 kVA diesel generator installed at S Block, whereas C Block is served by a 200 kVA transformer and a 135 kVA diesel generator. The hybrid solar PV systems have been designed to integrate with these existing power sources through appropriate synchronization and control mechanisms.

The detailed Bill of Quantities (BOQ) for the proposed solar PV installation, including the major equipment, associated electrical works, civil works, protection systems, and commissioning requirements, is presented in Table 1. Mandatory requirements are presented in table 2.

Note: *A Pre-Bid Meeting will be scheduled on date mentioned in EPADs Version 2.0 for submission of bids to discuss the technical specifications, scope of work, system requirements, installation methodology, and other relevant provisions of the bidding documents. Prospective bidders are strongly encouraged to visit the site CUI Abbottabad Dhamtore Campus and attend the Pre-Bid Meeting to ensure that their proposals fully comply with the technical and contractual requirements.*

Table-1 BOQ (Bill Of Quantity) summary of 160 kW solar installation for S and C academic Blocks

Sr. No.	Description	Unit	Quantity	Quoted Make & Model	Unit Rate (Rs.)	Total Amount (Rs.)
01	A-grade Tier-1 Solar PV panels (610 W-720 W rating) Brand: Longi, Canadian solar, Jinko, or JA Technology: TOPCON/HTJ/HPBC 2.0. (N-Type, Bifacial) Certifications: ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, IEC 61215, IEC 61730, COC/PSI flash test report. Standards Minimum performance warranty of 30 years.	160	kW			
02	Tier-1 Hybrid Solar Inverters,	200	kW			

	(50 kW rating individual inverters each, Qty=04) Brand: Solis/ Good We The inverter Compatible with 48–314 Ah high-voltage battery modules. And should have following major specifications: • AFCI and IP 66 protection. • Advanced energy management with AI-based optimization, automatic fault diagnosis, reactive power compensation, and power factor control. • Capable of stable operation under weak-grid and generator-hybrid (genset) applications. Manufacturer's original parallel kit, complete with all communication modules, cables, interfaces, software, and accessories, for synchronized parallel operation of the specified hybrid inverters as a 100-kW system per building. The kit shall support automatic load sharing, battery management, grid synchronization, and include complete configuration, testing, and commissioning as per the manufacturer's specifications Warranty: Minimum 5 years replacement warranty.					
03	Supply, installation and testing of Lithium Battery Energy Storage System (BESS) fully compatible with hybrid inverters. Brand: Pylontech/ Solis/ GoodWe/ Dyness The battery bank shall include all required battery modules, Battery Management System (BMS), battery rack/cabinet, DC protection, communication cables, and accessories for complete operation. Manufacturer's original interconnecting cables for parallel connection	120	kWh			

	Battery bank should have minimum 6000 life cycles at 95% DOD and IEC 62619, IEC 61000, UN38.3, IEC 62040 or equivalent certifications. The battery should have Minimum 0.5C charge/discharge rate and minimum IP 54 rating. Warranty: Minimum 5 years replacement warranty <i>(Warranty by Manufacture/Authorized distributor of The Company will be acceptable and will start from date of Installation)</i> <i>Note: The Manufacturing date of Battery should not be greater than 6 Months on date of Installation.</i>					
04	Supply and fabrication High-rise Heavy-Duty Frame for solar panels having following specs: I beam (4.5" x 2.5" x 3mm) 1550 gm Avg Rft and 14-gauge GI C channels. And civil work. The steel girders must be painted (one coat of red oxide and two coats of gray master enamel) by high-quality paint. • Mid clamps and end clamps for solar panels holding • The design should ensure proper spacing and orientation for PV modules, allowing ease of installation and future replacement • Dedicated maintenance walkways of appropriate width shall be provided within the solar array for safe inspection, cleaning, and servicing. • All fabrication, welding, and erection shall conform to AWS D1.1 / ASTM / BS EN standards or equivalent. • Bolts, nuts, and fasteners shall be stainless steel (SS 304/316) or hot dip galvanized for long life. • All welds shall be continuous, free from cracks, and inspected for quality assurance. • CONCRETE PADS 1 foot x 1 foot x 3 feet (L,W,H) for ground for rooftop 1 foot x 1 foot x	01	Job			

	1 feet: PCC 1:2:4 for PV Mounting pads as per site requirement including all civil works and installation and instruction of Engineer Alignment, tilt angle, and structural integrity shall be checked before final acceptance.					
05	Supply and fixing of 35-50 mm² 4 core PVC/PVC insulated copper cable for connecting output of inverter to the load. Brand: Pakistan cable, Newage, Fast, GM, The AC wires must have following certifications: ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007 The manufacturer of cables must have KEMA, PSQCA and CNC certification. The installer must provide Manufacturer datasheets, IEC compliance certificates and test reports. The size of cable according to load must be approved by technical committee (The payment of Cable will be made on basis of actual quantity used)	200	(Meter)			
06	Supply and fixing of DC Wire 1 × 6 mm² flexible 1000V XLPE/XLPO (Pure copper without tin coated) class 5 tinned copper based on IEC 60228 for connecting the solar panels and inverter. Brand: Pakistan cable, Newage, Fast, GM, The cables must meet the compliance set out in EN 50618 and qualify for H1Z2Z2-K. Solar DC cables must include manufacturing of Tinned flexible Copper, XPLO insulation, XPLO outer sheath DC rated to 1500 (The payment of Cable will be made on basis of actual quantity used)	1400	(Meter)			
07	Supply & fixing of 1 × 6 mm² copper cable (green) for panel-to-panel earthing and earthing between arrays including copper lugs/sleeves, complete with all accessories, Brand: Pakistan Cable, Fast, Newage (The payment of Cable will be made on basis of	250	(Meter)			

	actual quantity used)					
08	Supply & fixing of 1 × 16 mm ² copper cable (Green) for grounding of combined structure and grounding of lightning arresters including copper lugs and sleeves, complete in all respects. Brand: Pakistan Cable, Fast, Newage (The payment of Cable will be made on basis of actual quantity used)	700	Meter			
09	Copper lighting arrestor/ 3 Ft rod with ball having five spikes and base. With insulators	10	No.			
10	Earth PIT, 35' deep bore of 6" dia, 10' 15mm copper rod, 25mm copper wire (bare) 30', u clamp, Earthing material 25 kg, 2x2' main hole with metal cap.GI pipe 2" 25' with hanging clamps. Less than 5 Ohm.	08	No			
11	Earth Bus Bar 10"x1.5"X 2mm with insulators + box	07	No			
12	Supply and installation of 4 pole MCCBs 250 A (415 V, 18 kA) to be connected at input of inverters Brand: Chint/ CNC These devices must be approved by technical committee	4	No.			
13	Supply and installation of 4 pole MCCBs 125 A (415 V, 18 kA) to be connected at output of inverters Brand: Chint,/CNC These devices must be approved by technical committee	8	No			
14	Supply and installation of DC MCB, 2P, 32A (1000VDC) Brand: Chint, CNC These devices must be approved by technical committee	24	No.			
15	3-step lever-operated changeover switch rated for 1000 V DC, provided for each hybrid inverter to enable safe isolation and manual bypass of the inverter in the event of a fault or maintenance. The switch shall have Normal-OFF-Bypass operating positions, suitable for the system DC voltage and current, with arc-extinguishing capability, lockable handle, clear	04	No.			

	position indication, and compliance with applicable IEC standards.					
17	Civil works required for safe crossing of roads by underground DC, AC, or earthing cables. The work shall include excavation, installation of HDPE/RCC protective conduits, sand bedding, concrete encasement (where required), backfilling, compaction, road restoration to its original condition	01	Job			
18	Supply and installation of 4 pole AC Surge Protection Device Type 2 65/40 kA as per site requirement Brand: Chint, CNC All protection devices should conform to IEC 60947-2 / IEC 60898-2 or equivalent international standards. These devices must be approved by technical committee	04	No.			
19	Supply and installation of 2 pole DC Surge Protection Device Type 2 65/40 kA as per site requirement Brand: Chint, CNC All protection devices should conform to IEC 60947-2 / IEC 60898-2 or equivalent international standards.	24	No.			
20	Supply & Installation of DC DB Boxes for DC breakers and SPDs with complete internal wiring required for each inverter along with Reflectors Labelling on DB.	01	Job			
21	Supply & Installation of AC DB Boxes for AC breakers & SPD. With complete internal wiring along with Reflectors Labelling on DB.	01	Job			
22	Supply & Installation of AC Combiner Box (including 4 pole 400 A MCCB) for 1x4P Breaker along with 4x 400 AMP bus bars and one bus bar for Grounding. Phase indicators.	02	No.			
23	Supply & Installation of 3 Step Change Over Switch 3phase 200A, required to bypass dual outputs of each inverter must be approved by technical committee.	8	No.			
24	Supply and installation of MC4 Connectors IP67 Good quality, Pipe 4" Good Quality 2 mm thickness, Bends,	01	Job			

	PVC, GI cable trays with cover and hinges complete in all respect and other miscellaneous items as per site requirement					
25	Complete supply, installation, testing, commissioning, and successful operation of the entire solar photovoltaic (PV) system, including all associated equipment, accessories, and interconnections. The scope of work shall include, but not be limited to, the following: - Supply and installation of High-Density Polyethylene (HDPE) pipe conduits (PN12.5 SDR100) complete with fittings (Elbow and Tee and sockets PN16) for routing and mechanical protection of DC, AC, communication, and control cables. - Supply and installation of Bends, PVC - Installation of all PV modules, mounting structures, inverters, batteries DC/AC cables, DBs, protection devices, earthing and lightning protection systems in accordance with approved drawings, manufacturer's recommendations, IEC standards, and local electrical regulations. - Proper routing, termination, identification, and dressing of all cables with suitable cable trays, conduits, glands, lugs, ferrules, and labeling. - Mechanical alignment, tightening, and verification of all equipment to ensure safe and reliable operation. - Configuration and programming of inverters, battery management systems (BMS), energy meters, data loggers, communication devices, and remote monitoring systems.	01	Job			
26	Supply, Design, Installation & Commissioning of PV Gen-Set Synchronizer with Changeover for three inputs (Wapda, Genset, Solar) with priority selection	160	kW			

	scheme interlink with hybrid inverters. Appropriate No of magnetic contactors. 14 Gauge GI for outdoor box. PV Genset Synchronization System with one year warranty. Two 50 kW inverters of S block will be synchronized with 135 kVA DG set and two 50 kW inverters of C block will be synchronized with 150 kVA DG set.					
27	Load segregation Job, redistribution, and connection of Distribution Boards (DBs) by supplying the AC cables or any other accessories required. In accordance with the requirements of the technical team to ensure optimum utilization of the hybrid solar system, prioritization of critical loads, balanced load distribution. All modifications, testing, labeling, and commissioning shall be completed in all respects.	01	Job			
28	Complete net-metering integration including load flow analysis, Enhancement of sanctioned load, bidirectional meters and inverter synchronization with utility grid.	02	Nos			
	Total cost					

The Bidders are required to Note The following additional conditions/clarifications:

- **The Bidders meeting the minimum eligibility requirements (Technically Qualified) and offering the Grand Total lowest bid (Inclusive of Taxes) on Least Cost basis will be considered for award of contact.**
- **The bidders are required to furnish the price of each item in BOQ.**
- **The payment of the items will be made on the basis of actual quantity consumed/used/Installed.**
- **The quoted prices shall remain fixed for particular period of contract. No escalation in prices shall be applicable.**
- **The Performance Guarantee is required for period of ONE Year in form of Bank guarantee.**
- **The arrangement/provision of accommodation for Team of contractor for installation, Testing & Commissioning will NOT be the responsibility of The Client (The University).**
- **The Contractor will depute a qualified Engineering with his team for contractor proper supervision and execution of contract as per requirements.**

Training, After-Sales Service & Online Monitoring as per following:

Training:

The Vendor should provide training to nominated technical personnel of the University. The training shall include:

1. Standard operating procedures for daily use.
2. Preventive and corrective maintenance techniques.
3. Fault diagnosis and troubleshooting methods.
4. Safety measures and emergency protocols.
5. Use of the online monitoring platform (web and mobile).

After Sales Services:

The Vendor shall provide a minimum of Two (02 years) of after-sales services from the date of commissioning and acceptance of the solar PV system.

This service shall include, but not be limited to:

1. Preventive maintenance visits at least once every quarter.
2. Corrective maintenance in case of breakdowns/faults.
3. Replacement or repair of defective equipment under warranty.
4. Availability of essential spare parts during the warranty period.
5. Technical support through phone/email within 24 hours of complaint logging.
6. The Vendor shall supply, install, configure, and integrate a real-time online monitoring system for the installed solar PV plant.

Supply, Installation, Testing and Commissioning of 160 KW Hybrid Solar Photovoltaic System at COMSATS University Islamabad, Abbottabad (Dhamtore Campus)

The proposed project comprises the supply, installation, testing, and commissioning of a 160-kW hybrid solar photovoltaic (PV) system for two academic buildings, namely S-Block and C-Block.

Each academic block shall be equipped with an 80-kW solar PV array, 100 kW hybrid inverter capacity (configured as 2×50 kW hybrid inverters), and a 60 kWh high-voltage lithium Battery energy storage system (BESS). The proposed hybrid systems will operate in coordination with the existing utility supply and standby diesel generators to ensure uninterrupted operation during grid outages.

The existing electrical infrastructure comprises a 400 kVA transformer and a 150 kVA diesel generator installed at S Block, whereas C Block is served by a 200 kVA transformer and a 135 kVA diesel generator. The hybrid solar PV systems have been designed to integrate with these existing power sources through appropriate synchronization and control mechanisms.

The detailed Bill of Quantities (BOQ) for the proposed solar PV installation, including the major equipment, associated electrical works, civil works, protection systems, and commissioning requirements, is presented in Table 1. Mandatory requirements are presented in table 2.

Note: *A Pre-Bid Meeting will be scheduled on date mentioned in EPADs Version 2.0 for submission of bids to discuss the technical specifications, scope of work, system requirements, installation methodology, and other relevant provisions of the bidding documents. Prospective bidders are strongly encouraged to visit the site CUI Abbottabad Dhamtore Campus and attend the Pre-Bid Meeting to ensure that their proposals fully comply with the technical and contractual requirements.*

Table-1 BOQ (Bill Of Quantity) summary of 160 kW solar installation for S and C academic Blocks

Sr. No.	Description	Unit	Quantity	Quoted Make & Model	Unit Rate (Rs.)	Total Amount (Rs.)
01	A-grade Tier-1 Solar PV panels (610 W-720 W rating) Brand: Longi, Canadian solar, Jinko, or JA or Equivalent Technology: TOPCON/HTJ/HPBC 2.0. (N-Type, Bifacial) Certifications: ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, IEC 61215, IEC 61730, COC/PSI flash test report. Standards Minimum performance warranty of 30 years.	160	kW			

02	Tier-1 Hybrid Solar Inverters, (50 kW rating individual inverters each, Qty=04) Brand: Solis/ Good We or Equivalent The inverter Compatible with 48–314 Ah high-voltage battery modules. And should have following major specifications: • AFCI and IP 66 protection. • Advanced energy management with AI-based optimization, automatic fault diagnosis, reactive power compensation, and power factor control. • Capable of stable operation under weak-grid and generator-hybrid (genset) applications. Manufacturer's original parallel kit, complete with all communication modules, cables, interfaces, software, and accessories, for synchronized parallel operation of the specified hybrid inverters as a 100-kW system per building. The kit shall support automatic load sharing, battery management, grid synchronization, and include complete configuration, testing, and commissioning as per the manufacturer's specifications Warranty: Minimum 5 years replacement warranty.	200	kW			
03	Supply, installation and testing of Lithium Battery Energy Storage System (BESS) fully compatible with hybrid inverters. Brand: Pylontech/ Solis/ GoodWe/ Dyness or Equivalent The battery bank shall include all required battery modules, Battery Management System (BMS), battery rack/cabinet, DC protection, communication cables, and accessories for complete operation.	120	kWh			

	Manufacturer's original interconnecting cables for parallel connection Battery bank should have minimum 6000 life cycles at 95% DOD and IEC 62619, IEC 61000, UN38.3, IEC 62040 or equivalent certifications. The battery should have Minimum 0.5C charge/discharge rate and minimum IP 54 rating. Warranty: Minimum 5 years replacement warranty <i>(Warranty by Manufacture/Authorized distributor of The Company will be acceptable and will start from date of Installation)</i> <i>Note: The Manufacturing date of Battery should not be greater than 6 Months on date of Installation.</i>					
04	Supply and fabrication High-rise Heavy-Duty Frame for solar panels having following specs: I beam (4.5" x 2.5" x 3mm) 1550 gm Avg Rft and 14-gauge GI C channels. And civil work. The steel girders must be painted (one coat of red oxide and two coats of gray master enamel) by high-quality paint. • Mid clamps and end clamps for solar panels holding • The design should ensure proper spacing and orientation for PV modules, allowing ease of installation and future replacement • Dedicated maintenance walkways of appropriate width shall be provided within the solar array for safe inspection, cleaning, and servicing. • All fabrication, welding, and erection shall conform to AWS D1.1 / ASTM / BS EN standards or equivalent. • Bolts, nuts, and fasteners shall be stainless steel (SS 304/316) or hot dip galvanized for long life.	01	Job			

	- All welds shall be continuous, free from cracks, and inspected for quality assurance. - CONCRETE PADS 1 feet × 1 feet × 3 feet (L,W,H) for ground for rooftop 1 feet × 1 feet × 1 feet: PCC 1:2:4 for PV Mounting pads as per site requirement including all civil works and installation and instruction of Engineer Alignment, tilt angle, and structural integrity shall be checked before final acceptance.					
05	Supply and fixing of 35-50 mm² 4 core PVC/PVC insulated copper cable for connecting output of inverter to the load. Brand: Pakistan cable, Newage, Fast, GM, or Equivalent The AC wires must have following certifications: ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007 The manufacturer of cables must have KEMA, PSQCA and CNC certification. The installer must provide Manufacturer datasheets, IEC compliance certificates and test reports. The size of cable according to load must be approved by technical committee (The payment of Cable will be made on basis of actual quantity used)	200	(Meter)			
06	Supply and fixing of DC Wire 1 × 6 mm² flexible 1000V XLPE/XLPO (Pure copper without tin coated) class 5 tinned copper based on IEC 60228 for connecting the solar panels and inverter. Brand: Pakistan cable, Newage, Fast, GM or Equivalent The cables must meet the compliance set out in EN 50618 and qualify for H1Z2Z2-K. Solar DC cables must include manufacturing of Tinned flexible Copper, XPLO insulation, XPLO outer sheath DC rated to 1500	1400	(Meter)			

	(The payment of Cable will be made on basis of actual quantity used)					
07	Supply & fixing of 1 × 6 mm ² copper cable (green) for panel-to-panel earthing and earthing between arrays including copper lugs/sleeves, complete with all accessories, Brand: Pakistan Cable, Fast, Newage (The payment of Cable will be made on basis of actual quantity used)	250	(Meter)			
08	Supply & fixing of 1 × 16 mm ² copper cable (Green) for grounding of combined structure and grounding of lightning arresters including copper lugs and sleeves, complete in all respects. Brand: Pakistan Cable, Fast, Newage (The payment of Cable will be made on basis of actual quantity used)	700	Meter			
09	Copper lighting arrestor/ 3 Ft rod with ball having five spikes and base. With insulators	10	No.			
10	Earth PIT, 35' deep bore of 6" dia, 10' 15mm copper rod, 25mm copper wire (bare) 30', u clamp, Earthing material 25 kg, 2x2' main hole with metal cap.GI pipe 2" 25' with hanging clamps. Less than 5 Ohm.	08	No			
11	Earth Bus Bar 10"x1.5"X 2mm with insulators + box	07	No			
12	Supply and installation of 4 pole MCCBs 250 A (415 V, 18 kA) to be connected at input of inverters Brand: Chint/ CNC or Equivalent These devices must be approved by technical committee	4	No.			
13	Supply and installation of 4 pole MCCBs 125 A (415 V, 18 kA) to be connected at output of inverters Brand: Chint./CNC or Equivalent These devices must be approved by technical committee	8	No			
14	Supply and installation of DC MCB, 2P, 32A (1000VDC) Brand: Chint, CNC or Equivalent	24	No.			

	These devices must be approved by technical committee					
15	3-step lever-operated changeover switch rated for 1000 V DC, provided for each hybrid inverter to enable safe isolation and manual bypass of the inverter in the event of a fault or maintenance. The switch shall have Normal-OFF-Bypass operating positions, suitable for the system DC voltage and current, with arc-extinguishing capability, lockable handle, clear position indication, and compliance with applicable IEC standards.	04	No.			
17	Civil works required for safe crossing of roads by underground DC, AC, or earthing cables. The work shall include excavation, installation of HDPE/RCC protective conduits, sand bedding, concrete encasement (where required), backfilling, compaction, road restoration to its original condition	01	Job			
18	Supply and installation of 4 pole AC Surge Protection Device Type 2 65/40 kA as per site requirement Brand: Chint, CNC or Equivalent All protection devices should conform to IEC 60947-2 / IEC 60898-2 or equivalent international standards. These devices must be approved by technical committee	04	No.			
19	Supply and installation of 2 pole DC Surge Protection Device Type 2 65/40 kA as per site requirement Brand: Chint, CNC or Equivalent All protection devices should conform to IEC 60947-2 / IEC 60898-2 or equivalent international standards.	24	No.			
20	Supply & Installation of DC DB Boxes for DC breakers and SPDs with complete internal wiring required for each inverter along with Reflectors Labelling on DB.	01	Job			
21	Supply & Installation of AC DB Boxes for AC breakers & SPD. With complete internal wiring along with Reflectors Labelling on DB.	01	Job			
22	Supply & Installation of AC Combiner Box (including 4 pole 400 A MCCB) for 1x4P Breaker along with 4x	02	No.			

	400 AMP bus bars and one bus bar for Grounding. Phase indicators.					
23	Supply & Installation of 3 Step Change Over Switch 3phase 200A, required to bypass dual outputs of each inverter must be approved by technical committee.	8	No.			
24	Supply and installation of MC4 Connectors IP67 Good quality, Pipe 4" Good Quality 2 mm thickness, Bends, PVC, GI cable trays with cover and hinges complete in all respect and other miscellaneous items as per site requirement	01	Job			
25	Complete supply, installation, testing, commissioning, and successful operation of the entire solar photovoltaic (PV) system, including all associated equipment, accessories, and interconnections. The scope of work shall include, but not be limited to, the following: • Supply and installation of High-Density Polyethylene (HDPE) pipe conduits (PN12.5 SDR100) complete with fittings (Elbow and Tee and sockets PN16) for routing and mechanical protection of DC, AC, communication, and control cables. • Supply and installation of Bends, PVC • Installation of all PV modules, mounting structures, inverters, batteries DC/AC cables, DBs, protection devices, earthing and lightning protection systems in accordance with approved drawings, manufacturer's recommendations, IEC standards, and local electrical regulations. • Proper routing, termination, identification, and dressing of all cables with suitable cable trays, conduits, glands, lugs, ferrules, and labeling. • Mechanical alignment, tightening, and verification of all equipment to ensure safe and	01	Job			

	reliable operation. Configuration and programming of inverters, battery management systems (BMS), energy meters, data loggers, communication devices, and remote monitoring systems.					
26	Supply, Design, Installation & Commissioning of PV Gen-Set Synchronizer with Changeover for three inputs (Wapda, Genset, Solar) with priority selection scheme interlink with hybrid inverters. Appropriate No of magnetic contactors. 14 Gauge GI for outdoor box. PV Genset Synchronization System with one year warranty. Two 50 kW inverters of S block will be synchronized with 135 kVA DG set and two 50 kW inverters of C block will be synchronized with 150 kVA DG set.	160	kW			
27	Load segregation Job, redistribution, and connection of Distribution Boards (DBs) by supplying the AC cables or any other accessories required. In accordance with the requirements of the technical team to ensure optimum utilization of the hybrid solar system, prioritization of critical loads, balanced load distribution. All modifications, testing, labeling, and commissioning shall be completed in all respects.	01	Job			
28	Complete net-metering integration including load flow analysis, Enhancement of sanctioned load, bidirectional meters and inverter synchronization with utility grid.	02	Nos			
	Total cost					

The Bidders are required to Note The following additional conditions/clarifications:

- The Bidders meeting the minimum eligibility requirements (Technically Qualified) and offering the Grand Total lowest bid (Inclusive of Taxes) on Least Cost basis will be considered for award of contact.**
- The bidders are required to furnish the price of each item in BOQ.**
- The payment of the items will be made on the basis of actual quantity consumed/used/Installed.**

- The quoted prices shall remain fixed for particular period of contract. No escalation in prices shall be applicable.
- The Performance Guarantee is required for period of ONE Year in form of Bank guarantee.
- The arrangement/provision of accommodation for Team of contractor for installation, Testing & Commissioning will NOT be the responsibility of The Client (The University).
- The Contractor will depute a qualified Engineering with his team for contractor proper supervision and execution of contract as per requirements.

Training, After-Sales Service & Online Monitoring as per following:

Training:

The Vendor should provide training to nominated technical personnel of the University. The training shall include:

1. Standard operating procedures for daily use.
2. Preventive and corrective maintenance techniques.
3. Fault diagnosis and troubleshooting methods.
4. Safety measures and emergency protocols.
5. Use of the online monitoring platform (web and mobile).

After Sales Services:

The Vendor shall provide a minimum of Two (02 years) of after-sales services from the date of commissioning and acceptance of the solar PV system.

This service shall include, but not be limited to:

1. Preventive maintenance visits at least once every quarter.
2. Corrective maintenance in case of breakdowns/faults.
3. Replacement or repair of defective equipment under warranty.
4. Availability of essential spare parts during the warranty period.

5. Technical support through phone/email within 24 hours of complaint logging.
6. The Vendor shall supply, install, configure, and integrate a real-time online monitoring system for the installed solar PV plant.

CORRIGENDUM

In addition to above instruction, Tender documents terms & conditions, the following corrections/clarifications may please be noted:

1. The interested bidders may quote other equivalent globally recognized and reputable brands offering superior technical specifications, performance, reliability, efficiency, Warranty, and after-sales support that will be subject to evaluation by the Technical Evaluation Committee.”
2. The CDR/Earnest Money will be in Favour of the following:

COMSATS University Islamabad, Abbottabad Campus

The ORIGINAL hard copy of CDR/Earnest Money must be received in Purchase Office, COMSATS University Islamabad, Abbottabad Campus, Tobe Camp, Mandian Abbottabad on or before Tender Closing date & Time. The Original bid is required to be uploaded ONLINE on EPADS version 2.0 only.

3. The payment will be made after successful Supply, Installation, Testing & Commissioning of The Required Solar System.
4. Bidders are not required physically required to attend tender opening; it will be online on EPADS Version 2.0 as per rules.

Contractor's Representative and Key Personnel Schedule

Bidders should provide the names and details of the suitably qualified Contractor's Representative and Key Personnel to perform the Contract. The data on their experience should be supplied using the Form PER-2 below for each candidate.

Contractor' Representative and Key Personnel

1.	Title of position:	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
2.	Title of position:	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
3.	Title of position:	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
4.	Title of position:	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>

	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
5.	Title of position:	
	Name of candidate	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
6.	Title of position: <i>[insert title]</i>	
	Name of candidate	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>

**Form PER-2:
Resume and Declaration
Contractor's Representative and Key Personnel**

Name of Bidder

Position [#1]: <i>[title of position from Form PER-1]</i>		
Personnel information	Name:	Date of birth:
	Address:	E-mail:
	Professional qualifications:	
	Academic qualifications:	
	Language proficiency: <i>[language and levels of speaking, reading and writing skills]</i>	
details		
	Address of Employer:	
	Telephone:	Contact (manager / personnel officer):
	Fax:	
	Job title:	Years with present Employer:

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

Project	Role	Duration of involvement	Relevant experience
<i>[main project details]</i>	<i>[role and responsibilities on the project]</i>	<i>[time in role]</i>	<i>[describe the experience relevant to this position]</i>

Declaration

I, the undersigned [insert either “Contractor’s Representative” or “Key Personnel” as applicable] , certify that to the best of my knowledge and belief, the information contained in this Form PER-2 correctly describes myself, my qualifications and my experience.

I confirm that I am available as certified in the following table and throughout the expected time schedule for this position as provided in the Bid:

Commitment	Details
Commitment to duration of contract:	[insert period (start and end dates) for which this Contractor’s Representative or Key Personnel is available to work on this contract]
Time commitment:	[insert period (start and end dates) for which this Contractor’s Representative or Key Personnel is available to work on this contract]

I understand that any misrepresentation or omission in this Form may:

- (a) be taken into consideration during Bid evaluation;
- (b) result in my disqualification from participating in the Bid;
- (c) result in my dismissal from the contract.

Name of Contractor’s Representative or Key Personnel: [insert name]

Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Bidder:

Signature: _____

Date: (day/month/year): _____

Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as specified in Eligibility and Qualification Criteria.

No.	Source of financing	Amount (Eq. PKR)
1		
2		
3		

Past Experience / Contracts

Contracts over <i>[insert amount]</i> during the last three years:				
Procuring Agency	Value	Year	Goods/Services Supplied	Country of Destination



Historical Contract Non-Performance, and Pending Litigation and Litigation History

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

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

Date: *[insert day, month, year]*

Joint Venture Member Name: *[insert full name]*

IFP No. and title: *[insert IFP number and title]*

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

☐ Not debarred due to deviation from commitment of Bid Securing Declaration- ☐ Not debarred due to non-performance			
Year	Non-performed portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and PKR equivalent)
<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 Procuring Agency: <i>[insert full name]</i> Address of Procuring Agency: <i>[insert street/city/country]</i> Reason(s) for nonperformance: <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>
Pending Litigation, in accordance with Section III, Qualification Criteria and Requirements			
☐ Pending litigation in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.3 as indicated below.			
Year of dispute	Amount in dispute (currency)	Contract Identification	Total Contract Amount (currency), US\$ PKR Equivalent (exchange rate)

<i>[insert year]</i>	<i>[insert amount]</i>	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: <i>[insert full name]</i> Address of Procuring Agency: <i>[insert street/city/country]</i> Matter in dispute: <i>[indicate main issues in dispute]</i> Party who initiated the dispute: <i>[indicate "Procuring Agency" or "Supplier"]</i> Status of dispute: <i>[Indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary]</i>	<i>[insert amount]</i>
☐ No consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4. ☐ Consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4 as indicated below.			
Year of award	Outcome as percentage of Net Worth	Contract Identification	Total Contract Amount (currency), PKR Equivalent (exchange rate)
<i>[insert year]</i>	<i>[insert percentage]</i>	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: <i>[insert full name]</i> Address of Procuring Agency: <i>[insert street/city/country]</i> Matter in dispute: <i>[indicate main issues in dispute]</i> Party who initiated the dispute: <i>[indicate "Procuring Agency" or "Supplier"]</i> Court/ arbitral award decision: <i>[Indicate if the award decision was against the Applicant or any member of a joint venture.]y]</i>	<i>[insert amount]</i>

Current Contract Commitments / Works in Progress

Bidders and each member to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

Current Contract Commitments					
No.	Name of Contract	Employer's Contact Address, Tel, Fax	Value of Outstanding Work [Current Eq. PKR]	Estimated Completion Date	Average Monthly Invoicing Over Last Six Months [Eq. PKR/month]
1					
2					
3					
4					
5					

Financial Situation and Performance

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

Applicant's Name: [insert full name]

Date: [insert day, month, year]

Joint Venture Member Name: [insert full name]

IFP No. and title: [insert IFP number and title]

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

1. Financial data

Type of Financial information in (currency)	Historic information for previous [insert number] years, [insert in words] (amount in currency, currency, exchange rate*, PKR equivalent)				
	Year 1	Year 2	Year 3		
Statement of Financial Position (Information from Balance Sheet)					
Total Assets (TA)					
Total Liabilities (TL)					
Total Equity/Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Working Capital (WC)					
Information from Income Statement					
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Cash Flow Information					
Cash Flow from Operating Activities					

* Refer ITA 14 for the exchange rate

3. Financial documents

The Applicant and in case of JV, members of JV shall provide copies of financial statements for [number] years pursuant Section III, Qualifications Criteria and Requirements. The financial statements shall:

- (a) reflect the financial situation of the Applicant or in case of JV member, and not an affiliated entity (such as parent company or group member).
 - (b) be independently audited or certified in accordance with local legislation.
 - (c) be complete, including all notes to the financial statements.
 - (d) correspond to accounting periods already completed and audited.
- ☐ Attached are copies of financial statements¹ for the [number] years required above; and complying with the requirements.

¹ If the most recent set of financial statements is for a period earlier than 12 months from the date of Application, the reason for this should be justified.

Average Annual Turnover (Annual Sales Value)

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

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

Date: *[insert day, month, year]*

Joint Venture Member Name: *[insert full name]*

IFP No. and title: *[insert IFP number and title]*

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

Annual Turnover Data			
Year	Amount Currency	Exchange rate* (If applicable)	PKR equivalent
<i>[indicate calendar year]</i>	<i>[insert amount and indicate currency]</i>		
		Average Annual Turnover **	

* Refer ITA for date and source of exchange rate.

** Total PKR equivalent for all years divided by the total number of years. See Section III, Qualification Criteria and Requirements, ITA.