

Name and Address of Bidder:

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University of Kamalia

## BIDDING DOCUMENTS TECHNICAL BID PART-I

### SUPPLY, INSTALLATION & COMMISSIONING OF 250KW SOLAR PV SYSTEM

Bid Reference No:	UOK/ 2025-26/07
Tender No.2025-26/07	supply, installation & commissioning of 250kw solar pv system
Procurement Procedure & Method	Single Stage Two Envelope
Last Date & Time of Receipt of Bids	03-02-2026 11:30 am
Bid Opening Date & Time:	03-02-2026 12:00 pm
Contact Information	University of Kamalia, Main Campus, Rajana Road, Kamalia District Toba Tek Singh, Phone #: (046) 3411191, Email address: info@ukm.edu.pk

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## INTRODUCTION

This project involves the installation of a **250 KW solar power system** for the **University of Kamalia**, distributed across four locations within the campuses: , with **60-65 kW** capacity at each site. The initiative aims to promote clean energy use, reduce electricity expenses, and enhance the reliability of power supply for essential municipal services.

By implementing solar energy solutions, the **University of Kamalia** will contribute to environmental sustainability, reduce dependence on the national grid, and demonstrate leadership in adopting renewable energy technologies. The system will be grid-tied, efficient, and designed for long-term, low-maintenance operation with significant economic and environmental benefits.

The **University of Kamalia** has operational, relying on grid-purchased electricity from WAPDA to run its academic & admin facilities. WAPDA (FESCO) steadily increasing the kWh electricity rates. UOK is seeking a means to minimize its reliance on WAPDA and to achieve both long-term electricity cost savings and cost certainty through the use of solar PV system. The proposed solar PV system would interconnect to the grid under the WAPDA Net Energy Metering, enabling efficient energy use and sustainable development.

University of Kamalia has decided to execute the tender named as “**PROVISION AND INSTALLATION OF 250kW SOLAR PV SYSTEM FOR University OF KAMALIA**”

To achieve the quality work and engage technical and capable contractor the university decided to adopt single stage two envelope bidding process. Accordingly, well reputed firms registered with Pakistan Engineering Council (PEC) in the category “**C-6 & above**” (with specialization of solar in Code EE-11 (EE11(vi) Solar Installation or EE11(iii) Solar Energy system), registered with Alternative Energy Development Board (AEDB) in the category “**C- 3 and Above**”, registered with e-PADS as per Regulations-7(1) of upto-date PPRA regulations having required technical and managerial capabilities, are invited to participate in the bidding process for the above said project through submission of their requisite e-bid.

# INVITATION FOR BIDS (E-TENDERING)

## (SINGLE-STAGE TWO ENVELOPES)

**University of Kamalia** (hereinafter referred to as the “Procuring Agency”) **invites** the bids from well reputed **Vendors / Contractors** registered on e-PADS as per Regulations-7(1) of PPRA regulations- 2024 having valid PEC License in category **C-6 or above** with specialization solar codes in **(with specialization of solar in Code EE-11 (EE11(vi) Solar Installation or EE11(iii) Solar Energy system), AEDB License, active filer NTN, PRA, GST, for blow mentioned Project:-**

### “SUPPLY, INSTALLATION & cOMMISSIONG OF 250kW SOLAR PV SYSTEM FOR\_University OF KAMALIA”

Subject project shall be carried out through e-PADS of Punjab Procurement Regulatory Authority (PPRA) only. Bidding Documents containing detailed requirements, terms and conditions is available for the registered bidders on e-PADS at [www.punjab.eprocure.gov.pk](http://www.punjab.eprocure.gov.pk) and Punjab Regulatory Authority (PPRA) Website <http://ppra.punjab.gov.pk>.

1. **Single stage two envelop** bidding procedure will be adopted. The bids prepared in accordance with the instructions in the bidding documents, must be submitted on e-PADS on or before **03-02-2026**, not later than **11:30 AM**. Technical Bids will be opened on the same day on e-PADS at **12:00 PM**. Manual bids shall not be accepted. The **Bid Security** in the shape of **CDR/Bank Guarantee/PO/Demand Draft/Banker Cheque** except insurance bond for an amount of **2%** of estimated cost **Rs. 500,000** in the name of “**Treasurer, University of kamalia**” (FTN: 9023315-5) shall be uploaded on e-PADS in soft copy. The CDR (Bid-security and Affidavit of Not Blacklisted previously from University of Kamalia must reach University (Office of treasurer) in Hard form (physically) in original before the deadline date and time.
2. Only technically responsive bidder(s) will be qualified for opening of financial bid(s). Financial bid of bidder(s) found technically non-responsive shall remain un-opened in the e-PADS.
3. If the e-bid or proposal including record submitted on the e-PADS found corrupt, un-readable or contain virus, the e-bid or proposal shall be rejected as per **Regulation -8(4) of PPRA Regulations- 2024**.
4. The bidder shall submit e-bids through uploading PDF file on e-PADS as per **Regulation-6(4) of PPRA Regulations-2024**.
5. The procurement shall made under PPRA Rules-2014 and Punjab Procurement Regulations-2024.
6. The procuring agency may reject all bids or proposals at any time prior to the acceptance of a bid or proposal under **Punjab PPRA Rules 2014 (Rule-35)**.
7. Conditional tender will not be accepted.
8. No tender via telegraph or by post will be accepted bids submitted through e-PADS shall only be considered.
9. Tendered rates and amount should be filled in figures as well as in words and tenders should be signed as per general directions given in the tender documents.
10. In case, the last date of bid submission and opening falls in / within the official holidays, the last date for submission and opening of the bids shall be the next working day.
11. The tenderer shall fill up the bid schedule and indicate the percentage rate above or below the schedule of rate for “**Schedule Items/ Standardized items**”. Item rates will be quoted by the contractor against “**Non-Schedule / Non-Standardized items** “, failing which the bid shall be rejected.
12. Pre Bid meeting will be held on **27-01-2026 at 12:15 PM** in the office of the Treasurer
13. Estimated cost **Rs. 25,000,000/-**

## **INSTRUCTIONS TO BIDDERS**

- 1) Proposals shall be submitted in English language.
- 2) Single stage two envelopes bidding procedure will be adopted by using uploading files on e-PADS. The Procuring Agency will open the Technical Bids as per Punjab Procurement Regulations 2024. The Financial Bids will remain unopened and will be held in custody of the Procuring Agency until the specified time of their opening as per ibid regulations.
- 3) The bidder shall fill up the bid schedule and indicate rates for the all items.
- 4) The bidder must provide AEDB certificate with bid.
- 5) Conditional tender will not be accepted.
- 6) The bidder must provide PRA Certificate along with bid.
- 7) The bidder should quote rate after careful study of bid document
- 8) The rates should be quoted both in figures as well as in words. Similarly, the total amount of the individual items should also be mentioned both in figures as well as in words
- 9) The bidder shall quote single option of each item from mentioned brands. In case of equivalent item, the item must qualify the specification. Otherwise bid will be rejected.
- 10) The lowest evaluated bidder will be required to furnish the performance guarantee before entering into a contract.
- 11) The procuring agency shall evaluate the technical proposal in the manner prescribed in advance, without reference to the price and shall reject any proposal which does not conform to the specified requirements
- 12) Any addition, alteration and substitution after submission of bid shall not be accepted
- 13) During the technical evaluation no amendments in the technical proposal shall be permitted and if the Procuring Agency deems necessary to seek clarifications it will be sought in- writing via email.
- 14) At the end of the evaluation of the Technical Bids, the Procuring Agency will upload the evaluation on e-PADS and PPRA website regarding those bidders who have submitted substantially responsive Technical Bids and who have been determined as being qualified for opening of the Financial Bids.
- 15) The Procuring Agency will upload the evaluation on e-PADS and PPRA website regarding their Technical Bids being substantially non-responsive to the requirements of the Bidding Document and return their Financial Bids unopened before inviting others, who are determined as being qualified, for the opening of Financial Bids.
- 16) The bidder should clearly read the item specifications specially (Solar PV panels, Inverters and AC/DC Cables) and quote as per specification. If bidder failed to quote required specification of any of these items (Specially) bid will be rejected and considered as “Non-Responsive”.
- 17) The overall lowest evaluated bidder shall be awarded the contract
- 18) Each page of bidding documents (along with supporting documents i.e. technical brochures / catalogue etc.) has to be stamped and signed by the authorized signatory of the firms / company / contractor failing which Bid shall be rejected. Digital signatures and stamp are allowed for uploading documents.
- 19) Cutting / erasing shall be initialed by authorized person of the company
- 20) The procuring agency may reject all the bids or proposals at any time prior to the acceptance of a bid or proposal. The procuring agency shall upon request communicate

- to any bidder, the ground for its rejection of all bids or proposal but shall not be required to justify the grounds.
- 21) Any bidder feeling aggrieved by any act of the procuring agency after the submission of his bid may lodge on e-PADS his grievances within **5 [five]** days for technical evaluation and within **10 [ten]** days for the announcement of the final/financial evaluation report. The decision of Grievance Redressal Committee constituted by procuring agency shall be acceptable to the bidder.
- 22) **E-stamp** paper according to stamp act article **No. 22-A(a)(v)** amounting to **Rs. 30,000/-** shall be provided by the successful bidder for execution of Contract Agreement.
- 23) **Joint Venture** must comply with the following requirements: **a)** Following are minimum requirements for Joint Venture: -
- i. In accordance with PEC Bye Laws, Foreign Firms are required to form JVs with local Firms.
  - ii. The joint venture must collectively satisfy the technical evaluation criteria. Heretofore, for which purpose the relevant figures for each of the partners shall be added together to arrive at the JV's total capacity.
  - iii. The lead partner shares shall not be less than **51%** and members of JV should not be more than three.
  - iv. The bidder shall provide intended JV agreement at the time of bidding and the only successful bidder shall have to provide the JV agreement registered with sub registrar mentioning the joint and several liabilities with respect to the contract at the time of execution of contract agreement. In case of failure to provide register JV agreement at the time of contract agreement the securities submitted by the bidder shall be forfeited.
- b)** Any change in a technically responsive/ qualified JV after evaluation, shall be subject to the written approval of the Procuring Agency such approval may be denied if: -
- i. Lead Partner withdraw from a JV and lead partner do not meet the qualifying / technical evaluation criteria; The new lead partner to a JV does not stand qualified/ responsive individually or as another JV; or
  - ii. In the opinion of the Procuring Agency, a substantial reduction in competition would result.
  - iii. One firm shall not be partner in more than one JV.
- c)** Bid shall be signed by all members in the JV so as to legally bind all partners, jointly and severally.
- 24) The technically evaluation of a JV does not necessarily qualify any of its partners individually or as a partner in any other JV or association. In case of dissolution of a JV, each one of the constituent firms may be declared qualified / technically responsive if they meet all the requirements as described in technical criteria and any partner of JV has requested/shall request for the same and then his qualification shall be subject to the written approval of the Procuring Agency.
- 25) The Bidder (including all members of a JV) must not be associated, nor have been associated in the past, with the consultants or any other entity that has prepared the design, specifications and bidding documents for the project, or was proposed as

Engineer for the contract, over the last five **(05) years**. Any such association may result in disqualification/ non-responsiveness of the Bidder.

- 26) A qualified firm/contractor/JV may participate only in one bid only for the contract. If a firm submits more than one bid, singly or as a JV, all bids including that bidder will be rejected.
- 27) Any Firm / Bidder may purchase bidding documents individually and participate in bidding by making/incorporating Joint Venture (JV) with the condition that intended JV agreement must be attached with Technical Proposal mentioning the joint and several liabilities with respect to the contract and only the successful bidder shall provide the JV agreement must be registered with sub registrar mentioning the joint and several liabilities with respect to the contract at the time of execution of contract agreement.
- 28) In case of JV bid security attached with bid shall be on account of Joint Venture or any firm member of JV.

### **TENDER QUOTED PRICE**

The price quoted in tender shall be: i.

In Pak Rupees;

**ii.** Inclusive of All Taxes

### **BID SECURITY**

The Tenderer shall furnish the Bid Security (Earnest Money) as under:

- i. For a sum equivalent to amount mentioned in Notice published on PPRA/EPADS denominated in Pakistani Rupees; ii. Any Bid not accompanied by acceptable Bid Security/Earnest money shall be rejected by the Procuring Agency as non-responsive. The bid security shall be uploaded on e-PADS in soft copy as well as hard copy (in original) of the same shall be submitted in the office of undersigned situated at University of Kamalia, Rajana road, Kamalia on/before the E-bid Submission deadline otherwise bid shall be rejected.
- iii. In the form of Call Deposit Receipt **(CDR)/Bank Guarantee/Demand Draft/SDR/PO/Bankers Cheque** from any scheduled bank of Pakistan in favor of **“Treasurer, University of Kamalia.”** (NTN: 9023315-5)
- iv. The bid security must be on the account of bidder otherwise bid shall be rejected
- v. Having a minimum validity period of **28-Days** beyond the bid validity period.
- vi. The bid security of the bids found technically non-responsive shall be retained and shall be returned on the expiry of the grievance period or the decision of the complaint, if any, filed by the non-responsive bidder, whichever is later: provided that the procuring agency may return the sealed financial proposal earlier if the disqualified or non-responsive bidder, contractor submits an affidavit, through an authorized representative, to the effect that he is satisfied with the proceedings of the procuring agency.
- vii. The bid security of successful bidder shall be returned upon successful signing of contract agreement.

## **COMPLETION PERIOD**

The project completion period is **03-Months from the date of procurement order.**

## **BID VALIDITY**

The bid shall have a minimum validity period of **(90) days** from the last date for submission of the Tender. UKM may solicit the Tenderer's consent to an extension of the validity period of the Tender. The request and the response thereto shall be made in writing however the bid validity will be extended not more than **120-days**.

## **REQUIRED DOCUMENTS FOR TECHNICAL PROPOSAL**

Documents should be attached along with technical proposal as per evaluation and qualification criteria as mentioned in bidding documents

## **REQUIRED DOCUMENTS FOR FINANCIAL PROPOSAL**

Documents should be attached along with technical proposal as per evaluation and qualification criteria.

## **SUBMISSION CRITERIA & SCHEDULE:**

Each Bidder shall submit his Bid as under:

- (a) ORIGINAL Electronic Bid on EPADS shall be submitted.
- (b) The ORIGINAL CDR will be addressed / identified as below.
  - i. Be addressed to the Procuring Agency as under:

### **TREASURER, UNIVERSITY OF KAMALIA**

- ii. Bear the name and identification number of the contract as defined in the tender notice
- iii. If the bid is not marked as above, the Procuring Agency will assume no responsibility for the misplacement or premature opening of the Bid.
- (c) The technical bid should comprise of documents as per evaluation and qualification criteria which shall be placed in separate pdf files
- (d) **Deadline for Submission of Bids**
  - i. Bids must be received by the Procuring Agency at the e-PADS link specified no later than the time and date stipulated in the tender notice

The procuring agency may reject all bids or proposals at any time prior to the acceptance of a bid or proposal under Punjab PPRA Rules 2014 (**Rule-35**)

## **SITE VISIT**

All bidders are openly invited to visit and examine the site of work and its surroundings and obtain for themselves on their own responsibility all information that may be necessary for preparing the bid and entering into a contract. All cost in this respect shall be at the bidder's own expense. The bidders can Contact University representative for any site visit schedules. The bidder must inform relevant person at least 2 days before site visit.

## ELIGIBILITY CRITERIA (Part -A)

The firms fulfilling the following basic requirements shall only be considered for further evaluation (relevant documents to be attached):

- a) Registration with **PEC** in the respective Category **C-6** or above and with specialization in relevant solar code in (**EE-11**, (*EE11(vi) Solar Installation or EE11(iii) Solar Energy system*)) (*in case of JV\**). Alternative Energy Development Board (**AEDB**) certification in **C-3 & Above**. In case of Joint Venture, the Lead partner must be registered in the category **C-6 & Above** with the relevant code for PEC, and the other member/s should have at least registration from PEC. Further, at least one member of JV shall have AEDB certification in **C-3 & Above**. No foreign Firm(s) is allowed to participate whether as Single entity or Lead member of JV.
- b) Memorandum and Article of Association/Registration certificate of the Firm /Partnership deed registered with sub-registrar/ Affidavit of sole proprietorship / intended JV Agreement duly signed by all members clearly showing percentage share of all partners.
- c) Income Tax , GST, SECP and PRA registration certificate (**NTN ,SECP, STRN,PRA**).
- d) Annual Audit Report/ Income tax return for the last **03 Financial years** duly certified by Chartered Accountant Firm.
- e) Appropriate complete design of Electrical, Mechanical & Civil works including SLD, Roof top installation design/drawing, lightning arrestor design, i.e complete design report uploaded
- f) No black listing certificate from University of kamalia on **E-stamp paper** of **Rs.300** duly certified by Notary Public / Oath Commissioner.
- g) Authorizations from Original Equipment Manufacturer (OEM) of OEM Manufacturer/manufacture authority form (MAF)/ manufacture authority letter (MAL) for Solar Panels & Solar Inverters.

Note:-

- i. *\*In case of joint venture, any member of the Joint Venture has to fulfill the basic eligibility criteria and each member of **JV** shall have to meet **Sr. No. b, c, d,e, f & g**.*
- ii. *Any Fake document shall result in black listing of firm.*
- iii. *All the documents must be in English language with sign & stamp and foreign language documents must be translated and attested from the embassy. (The non-attested translated documents will not be considered).*
- iv. **This part of evaluation shall be on knockout bases in case the bidder fails to comply any of the above requirements the bidder shall not be considered for further evaluation & will be considered as “non- responsive”**

**Un-signed and un-stamped bids will be rejected.**

## TECHNICAL SPECIFICATIONS /Compliance Sheet (Part B)

Sr.	Description	Bidder to Specify
1	<p><b><u>Solar PV Modules</u></b>            Providing and Fixing of Solar Module Jinko /JA Canadian/Longi Solar or equivalent (Tier-1) having specification:            Wafer Type: N Type Bifacial, Cell Technology: Heterojunction (HJT)            PV Panel: <b>585-620W</b> or above , Cell Quality: A+ grade            Manufacturing year : , 2025            Maximum Module Efficiency: 22% or above            First Year Power Degradation:1% or less            Product Warranty: 12 Years or more (From manufacturer),            Linear output warranty: 25 years or more with complete            Import documents and Original Equipment Manufacturer (<b>OEM</b>) of OEM Manufacturer authority certificate.</p> <p>Solar PV modules meeting the certifications of IEC 61730 safety qualification testing, IEC 61701- operation in corrosive atmosphere , IEC 61215-crystalline silicon PV Module qualification , string / array junction boxes IP-68, 3 bypass diode, protection class II, IEC 60439- 1, 3 , surge protection. Device:- Type 2 , DC 1000/1500V rated, PV module/string interconnection box MC4 compatible and IEC-61215 TUV - Rheinland, IEC 61730- 1 TUV – Rheinland including cost of MC4 connectors. Complete in all respect as approved by engineer Incharge</p>	
2	<p><b><u>ON-Grid Inverter</u></b>            Providing, installing, and commissioning of 40 kW, IP65 or above, three-phase grid-tied solar inverter, compliant with VDE-AR-N-4105 (grid type), VDE-0126-1-1/A1-2012 (grid safety), IEC 61727 (utility interface standard for PV systems), IEC 62109-1 &amp; IEC 62109-2 (safety of power converters), IEC 62116 (anti-islanding protection test procedure) and IEC 62103 / IEC 62040 or UL 1741. The inverter shall have multiple MPPTs with string-level monitoring, built-in anti-islanding protection, Wi-Fi/Ethernet dongle and data logger for remote monitoring, maximum DC input current <math>\geq 128</math> A (4 <math>\times</math> 32 A), and peak efficiency <math>\geq 98.5\%</math>. Make shall be Huawei or Solis, or any other approved equivalent subject to approval of the Engineer-in-Charge, complete with minimum 5-years local replacement warranty, backed by authorized OEM / distributor, along with OEM authorization certificate, datasheets and compliance documentation, complete in all respects as approved by the Engineer-in-Charge.</p>	
3	<p><b><u>Hybrid Inverter:</u></b>            Providing and fixing Solar Hybrid Inverter 12 kW, three-phase, IP65 or above (Solis / Inverex Nitrox three-phase or approved equivalent), meeting the following criteria: IP65 or higher protection, built-in MPPT charge controller, dual output for grid and backup loads, generator-compatible, built-in zero-export functionality, online data monitoring with Wi-Fi/Data Logger, Battery Management System (BMS) support for lithium-ion batteries, support for PV capacity up to minimum 16-24 kW,</p>	

	compatible with 585–620 W or higher PV modules, high-voltage battery support , unbalanced and half-wave load support, and capable of operating as UPS with backup switch time <10 ms during grid failure. The inverter shall have multiple MPPTs, integrated DC switch, DC & AC Type-II surge protection, anti-islanding protection, and peak efficiency ≥ 96%. Supplied complete with minimum 5-years local warranty, backed by authorized OEM / distributor, along with OEM authorization certificate, complete in all respects and as approved by the Engineer-in-Charge.	
4	<b><u>Distribution Board for Ongrid System</u></b> Providing and fixing smart MS distribution board suitable for 50 kW solar inverter, floor/wall mounted of 16 SWG powder-coated sheet, IP class 44 or above, having 5 Nos. 4-pole 25A/32A, 1000V DC string breakers (one per string) of approved make (Schneider/Chint or equivalent), with incoming AC MCCB 4-pole 160A with 25 kA breaking capacity, complete with SPDs, digital energy analyzer, indication lights, ampere & volt selector switch, labeling, cable glands, earthing, locking arrangements and all accessories, complete in all respects and as approved by Engineer-in-Charge.	
5	<b><u>Distribution Board for Hybrid System:</u></b> Providing and fixing smart MS hybrid distribution board suitable for 12 kW three-phase solar hybrid inverter, floor/wall mounted, fabricated from 16 SWG powder-coated MS sheet, IP class 44 or above, complete with DC PV string protection breakers as per inverter configuration of approved make (Schneider / Chint or equivalent), dedicated DC battery isolation breaker suitable for high-voltage lithium battery system, incoming AC MCCB four-pole rated 63A–80A with 25 kA breaking capacity, complete with separate outgoing MCB/MCCB for light load and heavy load circuits, grid and backup output segregation, DC & AC Type-II surge protection devices (SPDs), digital energy analyzer, R-Y-B indication lights, ampere and volt selector switches, copper busbars, proper earthing terminals, cable glands, labeling, interlocking and locking arrangements and all associated accessories, complete in all respects and as approved by the Engineer-in-Charge.	
6	<b><u>Mounting Structure:</u></b> Providing and fixing of 14 Gauge, Galvanized Steel mounting structure L2/(2-Panels) with SS 304 Nut bolts/mid clamps/end clamps and with 150km/h wind load test complete in all respect as approved by the engineer incharge	
7	<b><u>DC Cable (For PV Connections)</u></b> Supply and erection of XLPE insulated, PVC sheathed copper conductor, 600/1000 volts grade cable, in pre-laid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):- <b>6 mm sq (7/0.044")</b>	
8	<b><u>AC Cable for Ongrid System</u></b> Supply and erection of copper conductor cables for service connection, in pre-laid pipe/G.I. wire/trenches, etc. (rate for PVC insulated, PVC sheathed Four core, 600/1000 volt non armoured cable:- <b>35 mm sq (19/0.064")</b>	

9	<b><u>AC Cable for Hybrid System:</u></b> Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for PVC insulated, PVC sheathed Four core, 600/1000 volt non armoured cable:- <b>16 mm sq (7/0.064")</b> )	
10	Providing and fixing 4" deep cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage, size and depth duly wall supported/ceiling hung, supported on painted brackets of MS angle iron of 1- 1/2"x1-1/2"x3/16" and MS patti of 1-1/2"x3/16" size @ 5 ft C/C, hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge. (ii) 9"x4" <b>(For AC/DC Cables)</b>	
11	Providing and fixing 2" deep cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage ,size and depth duly wall supported/ceiling hung, supported on painted brackets of MS angle iron of 1"x1"x1/8" and MS patti of 1-1/2"x3/16" size @ 5 ft C/C, hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge. (i) 4"x 2" <b>(For DC Cable)</b>	
12	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- 7/1.12 mm (7/0.044") <b>(Panel to Panel Earthing )</b>	
13	Supply and erection of PVC pipe for wiring on surface including clamps inspection boxes, pull boxes, bends, tees, repairing surface, etc., complete with all specials:-) <b>25 mm i/d</b>	
	<b>Earthing</b>	
14	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- 450/750 volts, PVC insulated: 25 mm sq (19/0.052") <b>(For AC Earthing)</b>	
15	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft. (30 m) depth, including sinking and withdrawing of casing pipe. Including Supply, installation, testing and commissioning of bare copper conductor for Earthing/ Grounding System <b>50 mm<sup>2</sup> CU bare conductor</b>	
16	Supply and erection of lightning arrestor horn type, complete	
17	<b><u>Control Room Safety</u></b> Fire Extinguisher (Control Room for safety) Providing of Portable CO <sub>2</sub> Fire Extinguisher- 5-kg (with hanging brackets and mounting arrangements)	
18	<b><u>Net Metering</u></b> Providing and fixing Reverse Meter including cost of design, Load flow study , NEPRA fees , Meter charges , Wapda charges and approved by relevant regulatory authorities i.e. NTDC, NEPRA etc complete in all respect (250kW System)	

<b>19</b>	<p><b>Civil Works</b>  Providing / fixing pre cast Concrete Block having size of 1' x 1' x 1' consisting of PCC ( 1: 1-1/2 :3), i/c shifting on roof complete in all respect and as per drawing and design approved by Engineer Incharge</p>	
<b>20</b>	<p><b>Lithium Battery System:</b>  Providing and installing 48V / 51.2V lithium-ion (LiFePO<sub>4</sub>) battery, suitable for hybrid inverter, with minimum usable capacity 10 kWh, complete with integrated BMS, CAN/RS485 communication, DC battery isolator/breaker (200–250A DC rated), battery cables, lugs, mounting arrangement, earthing and labeling, complete in all respects. Make: Inverex / SolaX / Narda / Scaredsun or approved equivalent, with minimum 5-years local warranty, as approved by the Engineer-in-Charge.</p>	

### **B.1: Health and Safety**

The PV system shall be designed to include provisions that respect the health and safety of the public, operators and any other personnel who may have an interest in the PV system throughout the project's lifetime. All safety equipment shall comply with applicable Pakistan codes for use in this project.

### **B.2: Environmental and Social**

The solar PV system shall be designed/installed to include provisions of Environmental and social impacts of the project with a goal to make an already Environmentally friendly project more in compliance with the environmental and social considerations which consist of, but not limited to, the following.

- i. Access to the rooftop: It has been ensured during the survey that only the buildings without any permanent encumbrance or encroachment are selected. However, any debris or obstructions/encumbrance built after the survey on the roof that could cause access restrictions to the rooftop, the contractor will be required to clear those before installation of PV system. The contractor will suggest dumping sites for all debris generated during the construction phase of the project.
- ii. Suitability of rooftop: The contractor will carry out any repair/rehabilitation of the rooftop required due to wear and tear, age of the building etc. if required. The purpose is to ensure the safety of the roof and its capacity to hold the additional load of the proposed solar PV system.

### **B.3 Fire Protection**

Determination of the local fire protections should be carried out in accordance with the applicable standards. Portable fire extinguishers of the appropriate type and rating complying with the national codes and recognized solar industry practice, and adequate first-aid kits including eye wash bottles, shall be provided at each inverter shelter and at the control building. Smoke detectors should be installed in each inverter shelter and at the control building.

### **B.4 Electrical Protection**

The electrical protection scheme shall disconnect faulted electrical sub-systems within the system, meet the Network Operator's requirements and be designed to adequately protect the electrical components of the PV system for the maximum design fault currents at the site and any other electrical conditions passed through from the utility system.

### **B.5 Acceptance and Commissioning**

The acceptance of the electrical works is intended to ensure the quality and proper performance of all works performed for which it was designed throughout its useful life. The work should be in accordance with the draft implementation, regulations, standards and mandatory detailed engineering report and technical documentation submitted. The commissioning of the electrical works is described in the commissioning of the PV system.

### **B.6 Acceptance**

The PV system shall be considered accepted only after all tests defined in the commissioning tests have been performed and approved by the client.

### **B.7 Commissioning**

In the commissioning process, a set of verifications and tests are to be carried out to ensure the proper functioning of the photovoltaic system based on detailed engineering.

All tests must comply with the applicable standards and requirements as per NEPRA and AEDB Testing, Commissioning and Net-metering guidelines. The contractor shall get the approval of the Engineer 2 weeks prior to the start of the commissioning process.

#### **B.8: Acceptance of the PV System**

The PV system shall be considered accepted after all commissioning tests have “passed” and without any fail and after receipt of all technical drawings and as-builts as well as the O&M manual.

A preliminary acceptance certificate (PAC) shall be provided upon successful commissioning. A punch list shall be produced and corrected before the acceptance/transfer of the PV system is made to the client.

The contractor shall be liable for the PV system in the 1st year and the 2nd year regarding the annual energy generated as per the value submitted by the award of the contract. The final acceptance certificate (FAT) shall only be given after 2 years and provided that this condition is met either in year 1 and 2 or on year 2.

#### **B.9 Training of University Staff**

Upon the successful operation of the solarization system, the Seller is responsible for providing comprehensive training to the Purchaser. This training shall cover the effective utilization, maintenance, and troubleshooting of the solarization system. The Seller must allocate and maintain a dedicated training section, equipped with the necessary resources and materials, to facilitate the training sessions for the University staff. The training should be designed to ensure that the University staff gains a thorough understanding of the solarization system's operation and upkeep, enabling them to manage and utilize the system efficiently."

#### **Note:**

1. **This part of evaluation shall be of knock out basis** if the bidder fails to provide the authorization from Original Equipment Manufacturer (**OEM**) of OEM Manufacturer/manufacture authority form (MAF)/ manufacture authority letter (MAL) for items mentioned at Sr. No. 1, 2 & 3 and fails to comply the given specifications he shall be considered as” **non-responsive**” and shall not be considered for further evaluation.
2. Similar to other than above or better specifications of an equivalent item will be accepted by the Bid Opening & Evaluation Committee. Bidder attaches brochure mentioning the relevant specifications. In absence of brochure the bid will be considered as “**non- responsive**” and the decision of the committee shall be final.
3. Section Drawings of structure with wind sustainable report with 150Km/h using SAP. Failing to Provide the bid will be considered as “**non responsive**”
4. Appropriate complete design of Electrical, Mechanical & Civil works including SLD, Roof top installation design/drawing, lightning arrestor/ESE design, i.e complete design must be submitted with E-Bid. Failing to Provide bid will be considered as “**non responsive.**”

# QUALIFICATION CRITERIA

Technical Evaluation will be based on the criteria given in succeeding paras regarding the Bidder's General Experience, Specific Experience, Personnel Capabilities , Equipment Capabilities & financial soundness as demonstrated by the Bidder's responses in the forms attached. The Procuring Agency reserves the right to waive minor deviations, if these don't materially affect the capability of a Bidder to perform the contract. Sub-contractor's experience and resources shall not be taken into account in determining the Bidder's compliance with the qualifying criteria. However, Joint Venture experience & resources shall be considered. Consortium or Association of Contractors will be considered for similar treatment as in case of Joint Venture. The detailed qualification criteria for Technical Evaluation is provided as follows:

Sr.No.	Category	Weightage/Marks
1.	General & Relevant Experience	35
2.	Personnel Capabilities	20
3.	Working Capital/ Financial Strength and Audit Report	30
4.	Logistics and Project Management Capacity	15
	<b>Total:</b>	<b>100</b>

The applicants must score total **60% marks**.

## SUB-CATEGORY A: EXPERIENCE RECORD

Bidder must meet following criteria for evaluation of the experience of the Firm/JV.

Sr. No.	Description	Max. Marks
i)	<b><u>Similar Projects Completed</u></b> a. Max 04-Projects completed of <b>similar or higher PV capacity</b> with Net Metering having Equal or more than 9.5(M) Cost of each Project with government departments completed over last 05 years (Evidence must be attached with customer/end user satisfied Report ) " <u>5 marks for each Project</u> "	20
ii)	<b><u>Similar Projects (in hand)</u></b> a. Max 03-Projects in progress of similar or higher PV capacity with Net Metering having Equal or more than 9.5(M) Cost of each Project with government departments (Evidence must be attached with customer/end user work order, contractor letter) " <u>5 marks for each Project</u> "	15
	<b>Sub-total:</b>	<b>35</b>

## SUB-CATEGORY B: PERSONNEL CAPABILITIES

The following key experts at a minimum shall be evaluated:

No personnel will be considered for evaluation if declaration of Professional Staff Employment & availability for this Project (**Form A-3**) **duly signed by authorized signatory** is not attached. Bidder will also provide **affidavit of employee** on judicial stamp paper.

Sr#	Description	Max. Points

i)	Engineers in employment of the contractor & Registered with PEC a) Number of Engineers (Min 1 No. Electrical) (5 marks for each engineer) b) Electrical Engineer (PEC Registration with minimum 03 Year Experience)	10  5
ii)	Number of Diploma Engineers in Employment of the Contractor a) Number of Sub Engineers having Diploma in Associate Engineering (Min 1-No Electrical) (2.5 Marks for each diploma engineer)	5
	<b>Sub-total:</b>	<b>20</b>

Bidders will provide **short CVs**, showing details of experts are desired by highlighting the name of expert, qualification, year of graduation or other degree(s), general experience, specific experience, designation, time of association with this firm. Experience certificates, Educational degree supporting the qualification, affidavit of employee on judicial stamp paper. No marks if required documents are not attached.

#### **SUB-CATEGORY C: WORKING CAPITAL & AUDIT REPORT**

Annual Audit Report/Income tax returns for Last 3 Years, Bank Statement / Credit Limits must be attached with this document

Sr#	Description	Max. Points
i)	<b>Working Capital (other than running projects) = Current Assets – Current Liabilities</b> <u>Marks distribution</u> 10 marks will be given if the available working capital for the last three years or available bank credit line limit is equal to 100 Million PKR or above For a limit less than 100 Million PKR, the following weightage will be applied: 15 Marks =100M (1.5 marks will be deducted for decreasing 10M)	15
i)	<b>Annual Turnover</b> <u>Marks distribution</u> 10 marks will be given if the available average annual turnover for the last three years is equal to 100 Million PKR or above. For a limit less than 100 Million PKR, the following weightage will be applied: 15 Marks =100M (1.5 marks will be deducted for decreasing 10M)	15
	<b>Sub-total:</b>	<b>30</b>

## SUB-CATEGORY D: LOGISTICS AND PROJECTMANAGEMENT CAPACITIES

Marks shall be awarded on the basis of the following criteria:

Sr. No.	Description	Max. Marks
i)	<b>Supply Chain</b> a. Marks will be given if the Applicant has association/dealership/ distribution of Tier-1 suppliers of solar panel (5 Marks) b. Marks will be given if the Applicant has association/dealership/distribution/authorized distribution of suppliers of inverters (5 Marks)	10
ii)	Five Service centers in Pakistan (1 mark each)	5
	<b>Sub-total:</b>	<b>15</b>

### Joint Venture (JV)

Joint Venture must comply with the following requirements: -

- a) Minimum qualification requirements: -
  - i) The lead partner shall meet not less than 50 percent of all qualifying criteria given in paras A to D heretofore.
  - ii) The joint venture must collectively satisfy the criteria of paras A to D, for which purpose the relevant figures for each of the partners shall be added together to arrive at the JV's total capacity.
- b) Any change in a qualified JV after qualification, shall be subject to the written approval of the Procuring Agency prior to the deadline for submission of bids. Such approval may be denied if:-
  - i) Partner(s) withdrawn from a JV and remaining partners do not meet the qualifying requirements;
  - ii) The new partners to a JV are not qualified individually or as another JV.

## FINANCIAL SOUNDNESS/ AUDIT REPORT

Please attach here

### GENERAL INFORMATION

*Bidder (or each Member of a Joint Venture) applying for qualification is required to complete the information in this form.*

1.	Name of Firm:	
2.	Head Office Address:	
3.	Telephone:	
4.	Email:	
5.	Type of Organization:	
6.	Place of Incorporation/ Registration:	Year of incorporation/ registration:
7.	PEC Registration Category: PEC Registration No:	Validity:
8.	NTN# & AEDB No.	
9.	Name, Designation, email and Mobile Number of Firm's Representative	

#### *Detail of Owners/ Directors*

	<b>Name</b>	<b>Designation</b>	<b>Nationality</b>
1.			
2.			
3.			
4.			
5.			

## DETAILS OF CONTRACTS OF SIMILAR NATURE AND COMPLEXITY

*Name of Applicant or partner of a joint venture*

Use a separate sheet for each contract.

1.	Name of Contract
	Country
2.	Name of Procuring Agency
3.	Procuring Agency Address .....
4.	Nature of works and special features relevant to the contract for which the Applicant wishes to apply for  ..... .....
5.	Contract Role (Tick One)  (a) Sole Contractor                      (b) Partner in a Joint Venture
6.	Value of the total contract (in            ed currencies) at completion, or at date of award for current specif contract  Currency.....                      Currency.....                      Currency.....
7.	Equivalent in Pak/Rs.
8.	Date of Award
9.	Date of Completion
10.	Contract Duration (Years and Months)  _____ Years                      _____ Months

11.	Specified Requirements1 ..... ..... .....
-----	--

*Insert any specific criteria required for particular operations, if any*

**Application Form A-2**

**Page \_\_\_ of \_\_\_ Pages**

**SUMMARY SHEET: CURRENT CONTRACT COMMITMENTS/WORKS IN PROGRESS**

<i>Name of Applicant or partner of a joint venture</i>
--

*Applicants and each partner to an application 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 substantial Completion Certificate has yet to be issued.*

Name of Contract	Value of Outstanding work (Equivalent Pak Rs. Millions)	Estimated Completion Date
1.		
2.		
3.		
4.		

5.		
6.		

**Application Form A-3**

**Page \_\_\_ of \_\_\_ Pages**

**PERSONNEL CAPABILITIES**

*Name of Applicant*

*For specific positions essential to contract implementation, Applicants should provide the names of qualified to meet the specified requirements stated for each position. The data on their experience should be supplied on separate sheets using one Form for each candidate (Application Form A-4).*

1.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate
2.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate

3.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate
4.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate

*Name of Applicant*

**CANDIDATE SUMMARY**

<b>Month/ Dates/Years</b>		<b>Company / Project / Position / Relevant technical and management experience</b>
<b>From</b>	<b>To</b>	

<b>Position</b>		<b>Candidate</b> [Tick appropriate one] <input type="checkbox"/> Prime <input checked="" type="checkbox"/> Alternate
Candidate information	1. Name of Candidate	2. Date of Birth
	3. Professional Qualification	
Present employment	4. Name of Procuring Agency	
	Address of Procuring Agency	
	Telephone	Contact (manager/personnel officer)
	Fax	Telex
	Job title of candidate	Years with present Procuring Agency

*Summarize professional experience over the last **10-years**, in reverse chronological order. Indicate particular technical and managerial experience relevant to the Project.*




**LETTER OF TECHNICAL BID**

**&**

**SCHEDULES TO BID**

**LETTER OF TECHNICAL BID  
FOR**

**SUPPLY, INSTALLATION & COMMISSIONING OF 250 kW SOLAR PV SYSTEM FOR  
UNIVERSITY KAMALIA, TOBA TEK SINGH**

Dated \_\_\_\_\_

To,

**TREASURER, UNIVERSITY OF KAMALIA**

Having examined the Bidding Documents including Instructions to Bidders, Conditions of Contract, Specifications, Drawings, Schedules to Bid, Schedule of Prices and Addenda Nos ..... for the

execution of the above-named Works, we, the undersigned, being a company doing business under the name of and address.....

... and being duly incorporated under the laws of ... hereby offer to execute and complete such Works and remedy any defects therein in conformity with the said documents including Addenda thereto.

1. We understand that all the Schedules attached hereto form part of this Bid.
2. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the amount of Pak Rs..... DCR No..... Dated...../...../ ..... Issued by Bank, Branch Name/Code... drawn in the favor (**if applicable as per contract agreement**) of, or made payable to the Procuring Agency, and valid for a period **28-Days** beyond the period of validity of Bid.
3. We undertake, if our Bid is accepted, to commence the Works and to deliver and complete the whole of the Works comprised in the Contract within the time(s) stated in Preamble to the Conditions of Contract.
4. We agree to abide by this Bid for the period of **90-days** from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. We undertake, if our Bid is accepted to execute the Performance Security referred to in bidding documents for the due performance of the Contract. (**if applicable as per contract agreement**)
6. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between.
7. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other person or persons making a Bid for the Works.
8. We, the firm or suppliers for any part of the Contract, do not have any conflict of interest.
9. We are not participating, as a Bidder or member of JV, in more than one bid in this bidding process.
10. We confirm, if our Bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the Procuring Agency. (Please delete in case of Bid from a single firm).
11. Dated this **day of** .....**2025**

NAME OF BIDDER \_\_\_\_\_ ADDRESS \_\_\_\_\_  
SIGNATURE \_\_\_\_\_ STAMP \_\_\_\_\_

## STANDARD FORMS

Standard Forms include the following:

- Form of Performance Security (Bank Guarantee)
- Form of Bank Guarantee/Bond for Advance Payment
- Integrity pact

**BANK GUARANTEE**  
**(See Clause 7)**

Penal sum of bond \_\_\_\_\_  
(express in words and figures)

KNOW ALL MEN BY THESE PRESENTS THAT Mr./MESSERS \_\_\_\_\_  
(Name of contractor)

Whose official address is \_\_\_\_\_  
As principal(s) (herein after referred to as principal) and the Bank of Punjab or scheduled Bank(s) of Pakistan (hereinafter appearing in the schedule of sureties, as sureties (hereinafter some time called the surety at the request of the principal are held and firmly bond to the Government of the Punjab acting through the Executive Engineer\_.

Division\_ or his successor or assigns) a body organized and existing under and by virtue of laws of the Government of the Punjab, in the penal sum of the amount stated above lawful money for the payment of which sum well and truly made we bind ourselves our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

PROVIDED THAT We, the sureties, bound ourselves in such sum jointly and severally, as well as, severally only for the purpose of allowing a joint actions against any or all of us and for all other purposes, each surety bond itself, jointly and severally with the principal for the payment of such sum only as set forth opposite its name in the following schedule:-

*SCHEDULE OF SURETIES*

Name of bank, branch and address	Limit of liability

The conditions of the above obligations is such that:

WHEREAS, the tender of the above bounden principal has been accepted and he has entered into a contract with the Project Director \_ Division for the work (Name of work) on the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_

AND WHEREAS, under the terms of the contract Government has required the principal to furnish a performance guarantee to form a part of the contract. NOW THEREFORE, it is agreed as follows:-

- 1) If the above bounden principal shall well truly and faithfully perform the contract and comply with and fulfill all the undertakings, terms and provisions thereof, and satisfy all the obligations of the said principal arising there under, and comply with all covenants therein contained and contained in the specifications, plan and other instruments constituting a part of the contract, required to be performed by the said principal, in the manner and within the time provided in the contract or any extension thereof that may be granted by the

Government with or without notice to the surety(s) and shall fully indemnify and the Government, for all costs and damages which the Government may suffer by reason of failure so to do, and shall fully reimburse and repay the said Project Director all out-lay and expenses which may incur in making good any such default and reasonable counsel fee incurred in the prosecution of defense of any action arising out of or in connection with any such default, and shall pay all persons who have contracts directly with the principal for labour and materials; if any, in connection with the work performed under the contract or any addition in or alternation thereto, or if the contract has not otherwise been rescinded by the Government under the provisions of clause 60 if general conditions of contract, then this obligation shall be null and void and of no effect, otherwise to remain in full force and effect and virtue.

- 2) The said surety, for value received, hereby stipulate and agree that no change in or in respect of any matter or thing concerning the said contract on the part of the Government or the Engineer-in-charge, extension in time, alteration in or addition to the terms of the contract between the Government and the contractor or to the extent and nature of the work be construed, completed and maintained there under, or the specifications accompanying the same shall in any way affect its obligations to this guarantee and it does hereby waive notice of any change extension in time, alteration or addition to the terms of the contractor to the specifications.
- 3) The liability of the surety is irrevocable and shall in no case exceed the aggregate amount stated on the top of this guarantee which each surety binds itself and promise to pay the whole or any part of this amount on demand to the Project Director without question and without reference to the principal. Provided that the notice of demand shall be given by the aforesaid Executive Engineer, in writing to the surety.

IN WITNESS WHEREOF, the above named principal and the surety have executed this instrument under its seal on this \_\_\_\_\_ day of 20\_.

The name and corporate seal of the surety being hereto affixed and these presents duly signed by its undersigned representatives pursuant to the authority of its Government body.

Principal (Contractor)

Address \_\_\_\_\_

Sureties 1 \_\_\_\_\_ Bank of Pakistan Ltd. Or Bank of Punjab \_\_\_\_Branch

**FORM OF BANK GUARANTEE/BOND FOR ADVANCE PAYMENT**

Guarantee No. \_\_\_\_\_

Executed on \_\_\_\_\_

Expiry date \_\_\_\_\_

[Letter by the Guarantor to the Procuring Agency]

WHEREAS the \_\_\_\_\_ (hereinafter called the Procuring Agency) has entered into a Contract for

\_\_\_\_\_ (Particulars of Contract) \_\_\_\_\_, with \_\_\_\_\_ (hereinafter called the Contractor) \_\_\_\_\_

AND WHEREAS the Procuring Agency has agreed to advance to the Contractor, at the Contractor's request, an amount of Rupees \_\_\_\_\_ (Rs.) which amount shall be advanced to the Contractor as per provisions of the Contract.

AND WHEREAS the Procuring Agency has asked the Contractor to furnish Guarantee to secure advance payment for performance of his obligations under the said Contract.

AND WHEREAS \_\_\_\_\_ (Bank) (hereinafter called the Guarantor) at the request of the Contractor and in consideration of the Procuring Agency agreeing to make the above advance to the Contractor, has agreed to furnish the said Guarantee.

NOW THEREFORE the Guarantor hereby guarantees that the Contractor shall use the advance for the purpose of above mentioned Contract and if he fails, and commits default in fulfillment of any of his obligations for which the advance payment is made, the Guarantor shall be liable to the Procuring Agency for payment not exceeding the aforementioned amount.

Notice in writing of any default, of which the Procuring Agency shall be the sole and final judge, as aforesaid, on the part of the Contractor, shall be given by the Procuring Agency to the Guarantor, and on such first written demand payment shall be made by the Guarantor of all sums then due under this Guarantee without any reference to the Contractor and without any objection.

This guarantee shall come into force as soon as the advance payment has been credited to the account of the Contractor.

This guarantee shall expire not later than \_\_\_\_\_ by which date It is understood that you will return this Guarantee to us on expiry or after settlement of the total amount to be claimed hereunder.

Guarantor (Bank)

Witness:

1. \_\_\_\_\_ Signature \_\_\_\_\_  
\_\_\_\_\_ Name \_\_\_\_\_  
Corporate Secretary (Seal) Title \_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_ \_\_\_\_\_  
Name, Title & Address (Seal) Corporate Guarantor

**INTEGRITY PACT**

*[To be filled and signed by the Bidder on Judicial Stamp Paper of Rs. 100]*

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

Dated \_\_\_\_\_

Contract Value: Rs. \_\_\_\_\_

Contract Title: **SUPPLY, INSTALLATION AND COMMISSIONING OF 250 kW SOLAR PV SYSTEM**

**FOR UNIVERSITY OF KAMALIA**

*[Name of Supplier/ Contractor / Manufacturer]* 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 (GoP) or any administrative subdivision or agency thereof or any other entity owned or controlled by GoP through any corrupt business practice. Without limiting the generality of the foregoing, *[Name of Supplier/ Contractor / Manufacturer]* represents and warrants that it has fully declared the brokerage, commission, fees 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 consultation 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/ Contractor / Manufacturer]* 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, representation or warranty.

*[Name of Supplier/ Contractor / Manufacturer]* accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts 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 rights 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/ Contractor / Manufacturer]* 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/ Contractor / Manufacturer]* 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.

Name of Buyer: .....

Name of Seller/Supplier: .....

Signature: .....

Signature: .....

[Seal]

[Seal]

# University of Kamalia

## FINANCIAL BID Part-II



University of Kamalia

**PROVISION FOR**

**UNIVERSITY OF KAMALIA**

NAME OF FIRM					
ADDRESS					
Diary No.		<b>DATED</b>		<b>RS.</b>	
ISSUED BY					

LETTER OF FINANCIAL BID SUBMISSION  
FOR  
PROVISION AND  
INSTALLATION OF 250kW  
SOLAR PV SYSTEM FOR University of Kamalia

Dated \_\_\_\_\_

To,

**TREASURER, UNIVERSITY OF KAMALIA , TOBA TEK SINGH**

Gentlemen,

1. Having examined the Bidding Documents including Instructions to Bidders, Conditions of Contract, Specifications, Drawings, Schedules to Bid, Schedule of Prices and Addenda Nos.  
..... for the execution of the above-named Works, we, the undersigned, being a company doing business under the name of and address..... and being duly incorporated under the laws of..... hereby offer at a total cost Rs.....to execute and complete such Works and remedy any defects therein in conformity with the said documents including Addenda thereto.
2. We understand that all the Schedules attached hereto form part of this Bid.
3. We undertake, if our Bid is accepted, to commence the Works and to deliver and complete the whole of the Works comprised in the Contract within the time(s) stated in Preamble to the Conditions of Contract.
4. We agree to abide by this Bid for the period of **90-days** from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. We undertake, if our Bid is accepted to execute the Performance Security referred to in bidding documents for the due performance of the Contract. **(if applicable as per contract agreement GOP)**
6. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between.
7. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other person or persons making a Bid for the Works.
8. We, the firm or suppliers for any part of the Contract, do not have any conflict of interest.
9. We are not participating, as a Bidder or member of JV, in more than one bid in this bidding process.
10. We confirm, if our Bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the Procuring Agency. (Please delete in case of Bid from a single firm).
11. Dated this ..... day of ..... 2025.

NAME OF BIDDER \_\_\_\_\_ ADDRESS \_\_\_\_\_ SIGNATURE \_\_\_\_\_ STAMP \_\_\_\_\_

**PROVISION AND INSTALLATION OF 250 kW SOLAR PV SYSTEM FOR UNIVERSITY OF KAMALIA, TOBA TEK SINGH**

**Financial Bid (Part B) (All pages must be signed & Stamp)**

Sr.	Description	Unit	Qty	Rate (Rupees)	Amount (Rupees)
1	<p><b><u>Solar PV Modules</u></b>            Providing and Fixing of Solar Module Jinko /JA Canadian/Longi Solar or equivalent (Tier-1) having specification:            Wafer Type: N Type Bifacial, Cell Technology: Heterojunction (HJT)            PV Panel: <b>585-620W</b> or above , Cell Quality: A+ grade            Manufacturing year ;, 2025            Maximum Module Efficiency: 22% or above            First Year Power Degradation:1% or less            Product Warranty: 12 Years or more (From manufacturer),            Linear output warranty: 25 years or more with complete            Import documents and Original Equipment Manufacturer (OEM) of OEM Manufacturer authority certificate.</p> <p>Solar PV modules meeting the certifications of IEC 61730 safety qualification testing, IEC 61701- operation in corrosive atmosphere , IEC 61215- crystalline silicon PV Module qualification , string / array junction boxes IP-68, 3 bypass diode, protection class II, IEC 60439- 1, 3 , surge protection. Device:- Type 2 , DC 1000/1500V rated, PV module/string interconnection box MC4 compatible and IEC-61215 TUV - Rheinland, IEC 61730- 1 TUV – Rheinland including cost of MC4 connectors. Complete in all respect as approved by engineer Incharge</p>	Each	430		
2	<p><b><u>ON-Grid Inverter</u></b>            Providing, installing, and commissioning of 40 kW, IP65 or above, three-phase grid-tied solar inverter, compliant with VDE-AR-N-4105 (grid type), VDE-0126-1-1/A1-2012 (grid safety), IEC 61727 (utility interface standard for PV systems), IEC 62109-1 &amp; IEC 62109-2 (safety of power converters), IEC 62116 (anti-islanding protection test procedure) and IEC 62103 / IEC 62040 or UL 1741. The inverter shall have multiple MPPTs with string-level monitoring, built-in anti-islanding protection, Wi-Fi/Ethernet dongle and data logger for remote monitoring, maximum DC input current <math>\geq 128</math> A (4 × 32 A), and peak efficiency <math>\geq 98.5\%</math>. Make shall be Huawei or Solis, or any other approved equivalent subject to approval of the Engineer-in-Charge, complete with minimum 5-years local replacement warranty, backed by authorized OEM / distributor, along with OEM authorization certificate, datasheets and compliance documentation, complete in all respects as approved by the Engineer-in-Charge.</p>	Each	4		

3	<p><b>Hybrid Inverter:</b>  Providing and fixing Solar Hybrid Inverter 12 kW, three-phase, IP65 or above (Solis / Inverex Nitrox three-phase or approved equivalent), meeting the following criteria: IP65 or higher protection, built-in MPPT charge controller, dual output for grid and backup loads, generator-compatible, built-in zero-export functionality, online data monitoring with Wi-Fi/Data Logger, Battery Management System (BMS) support for lithium-ion batteries, support for PV capacity up to minimum 16–24 kW, compatible with 585–620 W or higher PV modules, high-voltage battery support , unbalanced and half-wave load support, and capable of operating as UPS with backup switch time &lt;10 ms during grid failure. The inverter shall have multiple MPPTs, integrated DC switch, DC &amp; AC Type-II surge protection, anti-islanding protection, and peak efficiency ≥ 96%. Supplied complete with minimum 5-years local warranty, backed by authorized OEM / distributor, along with OEM authorization certificate, complete in all respects and as approved by the Engineer-in-Charge.</p>	Each	4		
4	<p><b>Distribution Board for Ongrid System</b>  Providing and fixing smart MS distribution board suitable for 50 kW solar inverter, floor/wall mounted of 16 SWG powder-coated sheet, IP class 44 or above, having 5 Nos. 4-pole 25A/32A, 1000V DC string breakers (one per string) of approved make (Schneider/Chint or equivalent), with incoming AC MCCB 4-pole 160A with 25 kA breaking capacity, complete with SPDs, digital energy analyzer, indication lights, ampere &amp; volt selector switch, labeling, cable glands, earthing, locking arrangements and all accessories, complete in all respects and as approved by Engineer-in-Charge.</p>	Job	4		
5	<p><b>Distribution Board for Hybrid System:</b>  Providing and fixing smart MS hybrid distribution board suitable for 12 kW three-phase solar hybrid inverter, floor/wall mounted, fabricated from 16 SWG powder-coated MS sheet, IP class 44 or above, complete with DC PV string protection breakers as per inverter configuration of approved make (Schneider / Chint or equivalent), dedicated DC battery isolation breaker suitable for high-voltage lithium battery system, incoming AC MCCB four-pole rated 63A–80A with 25 kA breaking capacity, complete with separate outgoing MCB/MCCB for light load and heavy load circuits, grid and backup output segregation, DC &amp; AC Type-II surge protection devices (SPDs), digital energy analyzer, R-Y-B indication lights, ampere and volt selector switches, copper busbars, proper earthing terminals, cable glands, labeling, interlocking and locking arrangements and all associated accessories, complete in all respects and as approved by the Engineer-in-Charge.</p>	Job	4		
6	<p><b>Mounting Structure:</b>  Providing and fixing of 14 Gauge, Galvanized Steel mounting structure L2/(2-Panels) with SS 304 Nut bolts/mid clamps/end clamps and with 150km/h wind load test complete in all respect as approved by the engineer incharge</p>	Each	215		
7	<p><b>DC Cable (For PV Connections)</b>  Supply and erection of XLPE insulated, PVC sheathed copper conductor, 600/1000 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):-  <b>6 mm sq (7/0.044")</b></p>	P.Rft	As per actual		

8	<b><u>AC Cable for Ongrid System</u></b> Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for PVC insulated, PVC sheathed Four core, 600/1000 volt non armoured cable:- <b>35 mm sq (19/0.064")</b> )	P.Rft	As per actual		
9	<b><u>AC Cable for Hybrid System:</u></b> Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc. (rate for PVC insulated, PVC sheathed Four core, 600/1000 volt non armoured cable:- <b>16 mm sq (7/0.064")</b> )	P.Rft	As per actual		
10	Providing and fixing 4" deep cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage, size and depth duly wall supported/ceiling hung, supported on painted brackets of MS angle iron of 1- 1/2"x1-1/2"x3/16" and MS patti of 1-1/2"x3/16" size @ 5 ft C/C, hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge. (ii) 9"x4" <b>(For AC/DC Cables)</b>	P.Rft	As per actual		
11	Providing and fixing 2" deep cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage ,size and depth duly wall supported/ceiling hung, supported on painted brackets of MS angle iron of 1"x1"x1/8" and MS patti of 1-1/2"x3/16" size @ 5 ft C/C, hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge. (i) 4"x 2" <b>(For DC Cable)</b>	P.Rft	As per actual		
12	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- 7/1.12 mm (7/0.044") <b>(Panel to Panel Earthing )</b>	P.Rft	As per actual		
13	Supply and erection of PVC pipe for wiring on surface including clamps inspection boxes, pull boxes, bends, tees, repairing surface, etc., complete with all specials:-) <b>25 mm i/d</b>	P.Rft	As per actual		
	<b>Earthing</b>				
14	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):- 450/750 volts, PVC insulated: 10 mm sq (7/0.052") <b>(For AC Earthing)</b>	P.Rft	As per actual		
15	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft. (30 m) depth, including sinking and withdrawing of casing pipe. Including Supply, installation, testing and commissioning of bare copper conductor for Earthing/ Grounding System <b>50 mm<sup>2</sup> CU bare conductor</b>	P.Job	8		
16	Supply and erection of lightning arrestor horn type, complete	P.Job	8		
17	<b><u>Control Room Safety</u></b> Fire Extinguisher (Control Room for safety) Providing of Portable CO <sub>2</sub> Fire Extinguisher- 5-kg (with hanging brackets and mounting arrangements)	Each	8		

18	<b>Net Metering</b> Providing and fixing Reverse Meter including cost of design, Load flow study , NEPRA fees , Meter charges , Wapda charges and approved by relevant regulatory authorities i.e. NTDC, NEPRA etc complete in all respect (250kW System)	P.Watt	250,000		
19	<b>Civil Works</b> Providing / fixing pre cast Concrete Block having size of 1' x 1' x 1' consisting of PCC ( 1: 1-1/2 :3), i/c shifting on roof complete in all respect and as per drawing and design approved by Engineer Incharge	Cft	860		
20	<b>Lithium Battery System:</b> Providing and installing 48V / 51.2V lithium-ion (LiFePO <sub>4</sub> ) battery, suitable for hybrid inverter, with minimum usable capacity 10 kWh, complete with integrated BMS, CAN/RS485 communication, DC battery isolator/breaker (200–250A DC rated), battery cables, lugs, mounting arrangement, earthing and labeling, complete in all respects. Make: Inverex / SolaX / Narda / Scaredsun or approved equivalent, with minimum 5-years local warranty, as approved by the Engineer-in-Charge.	Each	08		
<b>Sub Total</b> (In words and figures)					
<b>Grand Total</b> (In words and figures)					

**Note:**

1. All taxes applicable as per Government Policy.
2. Government of the Punjab Contract Agreement (updated) will be applicable.
3. Overall Lowest Bidder will be awarded contract with mentioned terms and conditions. No item wise rates will be accepted.
4. In case of any dispute in rates committee decision will be final.
5. 5% of the bid amount will be applicable as performance guarantee.
6. Payments will be made upon successful commissioning of installed systems including functional net-metering with respective energy provider (FESCO)

**Sign and stamp of Bidder**

*(Sign every page of bid)*

**DESIGN OF ELECTRICAL, MECHANICAL & CIVIL WORKS INCLUDING SLD, ROOF  
TOP INSTALLATION DESIGN/DRAWING, LIGHTNING ARRESTOR DESIGN**

**Please attach here**

Package Name: Provision and Installation of 250KW Solar PV  
System Package No: UOK/ 2025-26/07

Signature of bidder with official stamp  
Dated: