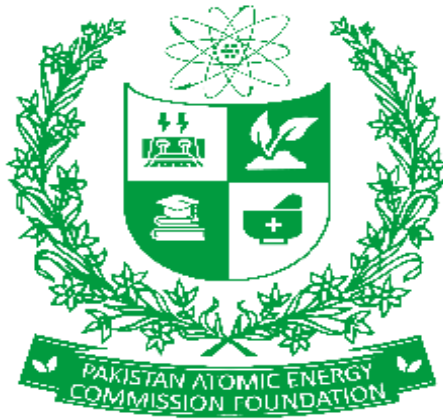


‘REQUEST FOR PROPOSALS’

FOR

PROVIDING, INSTALLATION & COMMISSIONING OF COMPLETE SOLAR SOLUTION IN PAEC FOUNDATION COMMERCIAL SETUPS



PAEC FOUNDATION

**Adjacent to NORI Hospital, Hanna Road, Sector G-8/3,
Islamabad**

Submission date for sealed proposals till: 15-12-2025 by 11:00 am.

Opening of proposals on 15-12-2025 at 11:30 am.

Authorized Person: General Manager (Projects)

Sign & Date

Issued To: M/s _____

SECTION-II: INSTRUCTIONS TO BIDDERS (ITB)

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| 1. Scope of Bid | PAEC Foundation intends to invite the “Sealed Proposals” on “Single Stage – Two Envelope Procedure” from eligible and reputable manufacturers, authorized dealers/ distributors/ firms for Providing, Installation & Commissioning of Complete Solar Solution at Pharmacy and Petrol Pumps in DG Khan and Jauharabad. |
| 2. Source of Funds | PAEC Foundation has available Budget to make eligible payments under the contract for which the Invitation to bids has been issued during FY 2025-2026. |
| 3. Eligible Bidders | <ul style="list-style-type: none"> a) The Invitation to Bids is open to companies/sole proprietor/ manufacturers/ suppliers visible on the active taxpayer list registered with relevant Registration Authorities and Tax Departments / Authorities (Income Tax, Sales Tax etc.) b) Companies must be available on List of Active Tax Payers” of FBR (for Income/Sales Tax). c) The firms should have registration with SECP, PEC and Private Power and Infrastructure Board (PPIB) d) Government-owned enterprises may participate only if they are duly/legally authorized in this regard by the respective / relevant competent forum/authority. e) Bidders shall not be under a declaration of blacklisting by any Government department/other Procuring Agency or by Public Procurement Regulatory Authority (PPRA) During the Procurement Process / execution of the Contract, if the firm/ bidder is blacklisted by any Government department/other Procuring Agency or by Public Procurement Regulatory Authority (PPRA) the Procuring Agency may proceed with second lowest evaluated bidder. f) The invitation for Bids is open to all prospective Manufacturers or Authorized Agents / Dealers / Distributors/ partners of the Manufacturer/ services providers/ suppliers duly complied with the mandatory and eligibility criteria. g) Warranty declarations. h) Conditional Bids, Telegraphic Bids, Bids not accompanied by Bid Security of required amount and form, bids received after specific date and time and bids of Blacklisted firms shall be treated as rejected/ non- responsive. i) Bidder(s) must write the “TECHNICAL PROPOSAL” and “FINANCIAL PROPOSAL” on the face of relevant sealed envelopes containing relevant bid/offer in it. j) Turn-over of last three years (25 million per year) duly supported with Bank Statement/ Financial Statements/ complete Income Tax Return Forms of the bidder. k) Bidder is mandatory to be registered on EPADS and shall be participated through EPADS system. Whereas, hard copy shall be submitted to PAEC Foundation, Head Office, adjacent to NORI Hanna Road G-8/3 Islamabad. |
| 4. Cost of Bidding | The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the PAEC Foundation hereinafter referred to as “ The Procuring Agency, ” will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process. Bidding document can be downloaded from EPADS PPRA website and PAEC Foundation website as mentioned in the Notice free of cost. |

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| 5. One person one bid | As per Public Procurement Rules 2004, amended time to time a Bidder shall submit only one Bid in the same bidding process individually as a Bidder. |
| 6. Language of Bid | The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Procuring Agency shall be in English. |
| 7. Bid Prices | <ul style="list-style-type: none"> i. The Bidder shall indicate the unit prices (where applicable) and total Bid price of the goods it proposes to supply under the contract ii. Prices indicated on the Price Schedule shall be item wise iii. Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account. |
| 8. Bid Currencies | Prices shall be quoted in Pak Rupees . |
| 9. Bid Security | <ul style="list-style-type: none"> i. Bid Security @ 2% of quoted amount in the shape of Call deposit/Pay Order/Demand Draft in the name of PAEC Foundation ii. The bid security shall be in Pakistan Rupee. iii. The Bidder shall submit, before the deadline for submission of Bids/proposals, the Bid Security (original CDR) physically at the office of General Manager (Projects), PAEC Foundation, adjacent to NORI Hospital Hanna Road G-8/3, Islamabad and shall also upload the same (copy of CDR) with Financial Bid on distinct standard entry at e- PADS as part of his Bid. |
| 10. Period of Validity of Bids | Validity period of the bids shall be 90 days, In exceptional circumstances, the Procuring Agency may extend the period of bid validity with mutual consent of both parties i.e. bidder and Procuring Agency. |
| 11. Submission of Bids | <ul style="list-style-type: none"> a) Bids/offers must be uploaded by the Bidders online through E-PADS at http://eprocure.gov.pk no later than the deadline for submission of Bids b) Each bidder shall submit his bid / offer in "Pdf format" on e-PADS through the system and the bidders shall encrypt those entries electronically separately in the form of two encrypted packages i.e. Technical bid / proposal and Financial bid / proposal respectively c) Bid cannot be uploaded on e-PADS after the deadline for the submission of bids i.e., 15-12-2025. Participation through EPADS is mandatory. PAEC Foundation will not be responsible in any case if there is any technical or other issue of EPADS. |

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| <p>12. Opening of Bids by the Procuring Agency</p> | <p><u>Opening of Bids:</u> - The Technical Proposals shall be opened on Monday December 15, 2025 @ 11:30 hrs.</p> <p>The Employer will open the Technical Bids/proposal in the presence of Bidders' representatives who choose to attend on Monday December, 15, 2025 @ 11:30 hrs. The Bidders' representatives who are present shall sign a register evidencing their attendance. The Financial Bids/proposal will remain unopened. The Employer shall access to the encrypted price bid to the extent of only technically responsive bids on the time and date configured in the system.</p> <p><u>Evaluation of Bids:</u> Bids/Offer including Technical Proposal / Financial Proposals to be evaluated by the Procurement Committee constituted by the PAEC Foundation for the purpose. The Committee may seek the clarification from the bidder. The Bids/Offer shall be evaluated conformity the requirements of terms & conditions of the bidding document based on the record/ documentary evidence submitted by the bidder.</p> <p>At the end of the evaluation of the Technical Bids / proposals, the Employer will publish the results of technical bid/proposal evaluation through e-PADS and make it available for the Bidders and invite only those bidders who have submitted substantially responsive Technical Bids/proposals and who have been determined as being qualified for award to attend the opening of the Price Bids/proposals.</p> <p>The date, time, and location of the opening of Price Bids / proposals will be advised through e-PADS by the Employer. Bidders shall be given reasonable notice for the opening of Price Bids/proposals.</p> <p>The Employer will notify Bidders through e-PADS who have been rejected on the grounds of their Technical Bids/proposals being substantially non-responsive to the requirements of the Bidding Document and return their Price Bids/proposals unopened.</p> |
| | <p><u>Financial Proposal Evaluation:</u> The Employer shall conduct the opening of Price Bids / proposals of all Bidders who submitted substantially responsive Technical Bids/proposals publically in the presence of Bidders' representatives who choose to attend at the address, date and time specified by the Employer. The Bidder's representatives who are present shall be requested to sign a register evidencing their attendance.</p> <p>Technically qualified/successful firms shall be eligible for Financial Proposal (s). The Financial bids shall be opened in the presence of the Bidders at the scheduled date, time and venue communicated in advance. Financial Bids / Proposals of Technically disqualified / rejected bidders will not be opened and sealed envelope shall be returned to the bidder</p> <p><u>Announcement of Bid Evaluation Report</u> Bids / Offers including Technical Proposal / Financial Proposals to be evaluated by the Committee constituted by the PAEC Foundation for the purpose. The Employer through e-PADS shall publish the results of final bid evaluation and make it available for the Bidders.</p> |
| <p>13. Notification of Award</p> | <p>i. Comparative statement shall be recorded and uploaded by the procuring agency on EPADS website.</p> <p>ii. The notification of award will constitute the formation of the Contract</p> |
| <p>14. Performance Guarantee</p> | <p>The Successful bidder shall submit the <u>Performance Security / Guarantee equal to 5% of total cost of the goods procured</u> in the shape of Call Deposit or Pay Order or Demand Draft or a Bank Guarantee in favor of PAEC Foundation.</p> |

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| 15. Signing of Contract/ Issuance of Purchase Order | <ul style="list-style-type: none"> i. At the same time as the Procuring Agency notifies the successful Bidder that its Bid has been accepted, the Procuring Agency will send the Bidder the contract form /purchase order, incorporating all agreements between the parties ii. The Procuring Agency requires formal signing of contract, with the successful Bidder |
| 16. Technical Weights | <p>The weights given to the Technical Proposals are:</p> <p>Technical: <u>100</u></p> <p>Technical qualification status shall be decided on the basis of applicant / firm securing at-least 50% marks in each category and securing a minimum of 70% marks overall, be considered technically Qualified.</p> |
| 17. Award Criteria | The PAEC Foundation will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and who has been evaluated as the lowest financial bidder , provided that such bidder is determined to be qualified to perform the contract satisfactorily |
| 18. Procuring Agency's Right to Accept or Reject All Bids | <ul style="list-style-type: none"> i. The PAEC Foundation reserves the right to accept or reject all Bids or proposals (and to annul the Bidding process) at any time prior to the acceptance of any Bid or proposal, without thereby incurring any liability towards the Bidders |
| | <ul style="list-style-type: none"> ii. The PAEC Foundation shall upon request communicate to any Bidder, the grounds for its rejection of all Bids or proposals, but shall not be required to justify those grounds. |
| 19. Corrupt or Fraudulent Practices | <ul style="list-style-type: none"> i. The Procuring Agency Bidders, Suppliers, and Contractors observe the highest standard of ethics during the procurement and execution of contracts ii. Blacklisting & Debarment: Blacklisted contractors/firms and those found involved in Corrupt Practices" are not allowed to participate bidding, Requirements & Procedure for Blacklisting & Debarment will be dealt as per conditions available in PPRA-2004 amended time to time <p>Moreover, all participants/bidders are required to submit a Stamp/E-Stamp paper that their firm is not black listed from other organization. Stamp/E-Stamp paper is of at least Rs.500/- of worth.</p> |
| 20. Joint Venture (JV) | Joint Venture (JV) participation is not allowed . |
| 21. Modules Mounting Structure | <ul style="list-style-type: none"> i. The supplier shall comply with all applicable legislations, such as the licensing of civil works, capacity and permits to perform the contractor's activity, safety, health, and environment ii. The fixing/mounting structure must be compatible with the proposed PV modules. iii. The fixing/mounting structure shall have 25 years warranty against defects. iv. The mounting structure must be designed to withstand the permanent load of the modules, cables and other components attached to it, as well as mechanical loads due to local Environmental conditions such as wind, snow, or earthquakes (where applicable). v. A detailed structural design report should be submitted for approval. Mounting structures and fixing systems shall allow access to all installation components for maintenance purposes. |

Technical Specifications
Goods/Items (s) List as per Specifications given in Technical Portion

| 35-kWp Solar PV System at Petrol Pump DG Khan | | | |
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| Sr. no | Equipment | Specification | Qty |
| 01 | Solar PV Modules | <ul style="list-style-type: none"> • Tier-1, Class-A, N-Type, Monofacial with 35 mm frame or better • Power rating 580W or higher, Anti-PID • Make: Tier-1, A-Grade as per Bloomberg latest list i.e. Canadian Solar, Jinko Solar and JA solar. • Standard compliance: IEC61730, 61215, ISO 9001, 14001 etc. • Thermal power co efficient Pmax: $\leq 0.29\%$ / °C • Efficiency $\geq 22.45\%$, Positive tolerance only • J. Box: factory equipped weather proof with minimum IP68 protection with provision of opening or replacement of DC cables, blocking diodes and convenient debugging, if required • Loading Capacity: 5400pa (Positive load), 2400 Pa (negative load) provided with all performance and other relevant test reports/ certifications included but not limited to I-V Curve test, flash module test, hotspot test, Anti-PID test etc. • 12 years of product warranty, 30 year performance warranty or better | $\geq 35\text{KW}$ |
| 02 | Solar Inverter | <ul style="list-style-type: none"> • Type: String Inverter, Grid tied, 1/1.5kV (DC), 3-Phase, multi-MPPT, transformer -less • Make: Sun grow, Huawei. • Size: As per optimal array design, but not less than 25 kVA • AC Voltage: 3/N/PE, 220V/380V, 230/400V • AC Voltage Range: 310-480V • Rated grid frequency: 50Hz/60Hz • Inverter to PV ratio: optimal but not less than 0.9 per inverter • Maximum Efficiency $\geq 98\%$ • Power Factor > 0.99 (at rated power), 0.8 leading-0.8 lagging (Adjustable) • Total Harmonic Distortion (THD) $< 3\%$ (at rated power) • Grid support: Active and reactive power control • Standard Compliance: IEC 62109-1/2, IEC 62116, IEC 61683 etc. for safety, grid connectivity, parallel operation & other relevant standards • Degree of Protection: IP 65 or better • DC/AC SPDs: Type-2 or better • Warranty: 10 years local replacement with OEM certificate • Built with data logger, communication interfaces, protections and remote monitoring capability, provided with inspection report from reputed, independent third-party testing/ inspection institution | ≥ 31.5 kW AC output |

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| 03 | DC Cable | <ul style="list-style-type: none"> • 99.9% cooper, double insulated, cross-linked insulation (XLPE/PO), Class 5, flexible tinned conductor • Size 6 mm² or more • Voltage drop less than 2% • Voltage level 1.5/1.5 KV for max PV system voltage up to 2kV • Operating Temperature: - 20 °C ~ 90 °C, flexible weather resistant, UV resistant, ozone resistant, ozone corrosion resistant, halogen free & flame retardant • Provided with all major test report such as conductor resistant test insulation resistant test, etc. • Standard compliance: IEC 62930:2017. IEC-60287, EN 50618 or equivalent • Cables to be laid in conduits of high quality • Make: Pakistan / Fast. | As per Req |
| 04 | AC Cable | <ul style="list-style-type: none"> • 4-core, 99% cooper, PVC Insulated /PVC Sheathed or better • Standard compliance: IEC 60228, BS 6346(Insulation). IEC-60364-5-52(sizing) IEC-60287/BS-7671 • Make: Pakistan / Fast. | As per Req |
| 05 | DC Breaker | <ul style="list-style-type: none"> • MCB, 2 or 4 pole, 1000 VDC • Rated current, $I_{rated} \geq 20A$ as per PVs/String • Max Breaking current, $I_{max} \geq 5kA$ • Make: Schneider/Terasaki (Japan). • Individual breaker for every string with manual operation feature • Standard compliance: IEC 60947-2 | 1 No. per string |
| 06 | AC Breaker | <ul style="list-style-type: none"> • MCCB, 4 Pole with adjustable rating to be placed at output side of each On-Grid Inverter • $I_{cu}: I_{cs} @ 415V$ • Max Breaking Current, $I_{max} \geq 36kA$ • Make: Schneider Electric/ABB/Terasaki. • Standard Compliance: IEC 60947-2 | 1 No. per Inverter |
| 07 | Surge Protection Devices | <ul style="list-style-type: none"> • 2 Pole, 1000VDC, Type II or better • Rated Current, $I_{rated} \geq 20A$ • Max Breaking Current, $I_{max} \geq 20kA$ • Make: Schneider Electric/ ABB/ Dehn Germany. • SPDs at each string shall be additional to inverter's built in SPDs • Standard Compliance: IEC 61643-2 | 1 no. per inverter (AC SPD) |
| 8 | DC Panel / DB | <ul style="list-style-type: none"> • Floor standing / wall mounted with MS powder coated finish • 14 SWG or better • Indoor/ outdoor type as per requirement and/ or Client's preference • With fans, louvers, proper fixtures, thimbles, lugs, connectors, labelling / tagging and foundations | ≥ 01 Nos. |

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| 9 | AC Panel | <ul style="list-style-type: none"> Floor standing / wall mounted with MS powder coated finish 14 SWG or better Indoor I outdoor type as per requirement and / or Client's preference, with IP-56 or better rating With MCCB / ACB, digital meters, energy analyzers (Make: Datakom, Entes or approved equiv.), selector switches, CTs, phase indication lights (Make: Maruyasu Japan or Approved equiv.), fans, louvers with proper fixtures, thimbles, lugs, connectors, labelling / tagging and all other necessary fittings | ≥01 Nos. |
| 10 | Solar Panels Mounting Structure | <ul style="list-style-type: none"> Specific customized mounting structures shall be required for various roof-top locations/ segments Material Section (Purlin/Beam/Column): C/U-Channel/1 beam or better Thickness: 12 SWG / 2.75 mm for galvanized steel or better Support/bracing: 14 SWG /2.0 mm or better Parking shed shall be single/mono pitch. Rawal bolts SS 304, M10, L = 100 mm to fix frame with columns 04 nos. of galvanized anchor bolts (ASTM F959) or SS 304 may be used to fix base plate with concrete foundation. Welding job must be executed according to prevailing welding standards for structural steel work, if required Panels' orientation: south azimuth angle of $180^{\circ} \pm 20^{\circ}$ (180° corresponds to True South). Tilt angle shall be 15° or better PV Module shall be fixed with frame through SS 304, MB x 30 mm Nuts/Bolts/Washers or Aluminum clamps (End/Mid) as per OEM recommendations while structure members (purlin, beam etc.) will be joined with each other through SS 304, M10 x 30 mm Nuts/Bolts/Washers. Washers should be used on both sides of bolts. Solar panel lower end should be minimum 06 inches above from roof level and minimum distance between two panels will be 25 mm Rawal bolts SS 304, M10, L = 100 mm or better shall be used to fix frame with roof These fasteners must be tighten with pre-defined torque as per OEM recommendations. All fasteners must be adequately protected from atmosphere and weather conditions. Chemical sealant must be used during anchoring to give adhesion between bolt and concrete to avoid water leakage Design shall be appropriate, innovative and easy to install & replace any module. Structure must be designed with appropriate factor of safety. The corners/ edges must be chamfered to avoid sharp edges. The array structure shall be grounded Sufficient distance of installed panels must be from parapet/ boundary wall to avoid shade on panels and to allow regular cleaning of solar panels, they should be easily accessible for personnel. | ≥33kWp DC |

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| | | <ul style="list-style-type: none"> Mounting structure & foundation shall be designed with reference to the existing roof surface conditions to withstand wind speed of 150 km/h, using relevant Pakistani / International wind load codes. The successful bidder shall provide dynamic/wind analysis report using prevalent industrial software Bidder must also submit certificates / documents / test reports along with relevant literature related to the quality and safety of structures. | |
| 11 | Civil work | <ul style="list-style-type: none"> RCC foundation shall be used having minimum size of 12" x 12" x 12" with appropriate reinforcement / steel bars. foundation block shall be at least 1 feet above from ground level 1:2:4 cement ratio must be used in all concrete works Pad top shall also be slightly tapered to avoid water accumulation | As per req. |
| 12 | Earthing Protection | <ul style="list-style-type: none"> 99.9% Copper, Single Core of suitable size/rating as per IEC 60364- 5-54, not less than 6mm² for exposed conductive parts. Sizing of earthing wire to be calculated, as per relevant IEC standard, for every equipment Earth Resistance must not exceed 5 Ohms for any earthing pit. DC Earthing to be installed as per IEC 60364-7 | ≥01 Nos. |
| 13 | Earth Pit | <ul style="list-style-type: none"> Earth pit excavation of sufficient size (1.5m x 1.5m x 5.0m minimum) in hard rock / gravelly soil Copper plate (99% pure of 500mm x 500mm x 10mm minimum) with 02 Nos. earth leads of bare copper conductor in mixture of wood, coal powder, salt and sand, with Mesh Resistances ≤ 1.0 Ohm Earth Termination Point comprising of Copper(99.9% pure) strip, fitted with brass nuts, bolts, washers for installation / mounting with adequate inspection chamber | ≥01 Nos. |
| 14 | Zero Export Device | <ul style="list-style-type: none"> Complete with Analyzer, CTs, PTs, etc. for monitoring and logging of real-time power flow values and other parameters Make: Original/ Recommended as per Inverter Associated Cat-VI or approved equiv. communication cable to be interfaced with Inverters | 01 No. |
| 15 | Firefighting | <ul style="list-style-type: none"> Appropriate fire extinguishing equipment near each inverter I Point of Injection of Solar Power | 01 Set Per Inverter |
| 16 | Other Accessories | <ul style="list-style-type: none"> High quality UPVC Conduits for DC Cables, perforated GI cable trays (size: 18 SWG or better) with caps for AC cables with cable ties, clamps, thimbles, etc. All other additional equipment/ parts which are necessary for smooth / efficient long-term operation of solar PV systems | As per Req. |

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| 17 | Installation/ Commissioning Services and Net Metering | <ul style="list-style-type: none"> Complete System Installation, Testing and Commissioning, complete in all respects Preparation and submission of Net Metering application and necessary documentation, pre-requisites, DISCO load flow studies etc. on behalf of Client and submit corresponding fees such as NEPRA fees, Demand Notices etc. as per site requirement Continued follow up of the case till activation of net metering and replacement / update of existing electrical infrastructure, if required, for net metering All fees / costs associated with Net Metering to be borne by Supplier | 01 Job |
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| 30-kWp Solar PV System at Petrol Pump Jauharabad | | | |
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| Sr. no | Equipment | Specification | Qty |
| 01 | Solar PV Modules | <ul style="list-style-type: none"> Type: Tier-1, Class-A, N-Type, Monofacial with 35 mm frame or better Power rating 580W or higher, Anti-PID Make: Tier-1, A- Grade as per Bloomberg latest list i.e. Canadian Solar, Jinko Solar and JA solar. Standard compliance: IEC61730, 61215, ISO 9001, 14001 etc. Thermal power co efficient Pmax: $\leq 0.29\%$/C Efficiency $\geq 22.45\%$, Positive tolerance only J.Box: factory equipped weather proof with minimum IP68 protection with provision of opening or replacement of DC cables, blocking diodes and convenient debugging, if required Loading Capacity: 5400pa (Positive load), 2400 Pa (negative load) provided with all performance and other relevant test reports/ certifications included but not limited to I-V Curve test, flash module test, hotspot test, Anti-PID test etc 12 years of product warranty, 30-year performance warranty or better | $\geq 30\text{KWp}$ |
| 02 | Solar Inverter | <ul style="list-style-type: none"> Type: String Inverter, Grid tied, 1/1.5kV (DC), 3-Phase, multi-MPPT, transformer -less Make: Sungrow, Huawei. Size: As per optimal array design, but not less than 25kVA AC Voltage: 3/N/PE, 220V/380V, 230/400V AC Voltage Range: 310-480V Rated grid frequency: 50Hz/60Hz Inverter to PV ratio: optimal but not less than 0.9 per inverter Maximum Efficiency $\geq 98\%$ Power Factor > 0.99 (at rated power), 0.8 leading-0.8 lagging (Adjustable) Total Harmonic Distortion (THD) $< 3\%$ (at rated power) Grid support: Active and reactive power control Standard compliance 62109-1/2, IEC 62116, IEC 61683 etc | $\geq 27\text{ kW}$ AC output |

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| | | for safety, grid connectivity, parallel operation & other relevant standards <ul style="list-style-type: none"> Degree of protection: IP65 or better DC/AC SPDs: Type-2 or better Warranty: 10 years local replacement with OEM certificate Built with data logger, communication interfaces, protections and remote monitoring capability, provided with inspection report from reputed, independent third-party testing/inspection institution | |
| 03 | DC Cable | <ul style="list-style-type: none"> 99.9% cooper, double insulated, cross-linked insulation (XLPE/PO), Class 5, flexible tinned conductor Size 6 mm² or more Voltage level 1.5/1.5 KV for max PV system voltage up to 2kV Operating Temperature: - 20 °C ~ 90 °C, flexible weather resistant, UV resistant, ozone corrosion resistant, halogen free & flame retardant Provided with all major test report such as conductor resistant test insulation resistant test, etc. Standard compliance: IEC 62930:2017. IEC-60287, EN 50618 or equivalent Cables to be laid in conduits of high quality Make: Pakistan/Fast. | As per Req |
| 04 | AC Cable | <ul style="list-style-type: none"> 4-core, 99% cooper, PVC Insulated /PVC Sheathed or better Standard compliance: IEC 60228, BS 6346(Insulation). IEC-60364-5-52(sizing) IEC-60287/BS-7671 Make: Pakistan/Fast. | As per Req |
| 05 | DC Breaker | <ul style="list-style-type: none"> MCB, 2 or 4 pole, 1000 VDC Rated current, I_{rated} ≥ 20A as per PVs/String Max Breaking current, I_{max} ≥ 5kA Make: Schneider/Terasaki (Japan). Individual breaker for every string with manual operation feature Standard compliance: IEC 60947-2 | 1 No. per string |
| 06 | AC Breaker | <ul style="list-style-type: none"> MCCB, 4 Pole with adjustable rating to be placed at output side of each On-Grid Inverter I_{cu}: I_{cs} @415V Max Breaking Current, I_{max} : ≥ 36kA Make: Schneider Electric/ABB/Terasaki. Standard Compliance: IEC 60947-2 | 1 No. per Inverter |
| 07 | Surge Protection Devices | <ul style="list-style-type: none"> 2 Pole, 1000VDC, Type II or better Rated Current, I_{rated} ≥ 20A Max Breaking Current, I_{max} ≥ 20kA Make: Schneider Electric/ ABB/ Dehn Germany. SPDs at each string shall be additional to inverter's built in SPDs Standard Compliance: IEC 61643-2 | 1 No. per DC string (DC SPD) 1 no. per inverter (AC SPD) |

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| 8 | DC Panel / DB | <ul style="list-style-type: none"> Floor standing / wall mounted with MS powder coated finish 14 SWG or better Indoor/ outdoor type as per requirement and/ or Client's preference With fans, louvers, proper fixtures, thimbles, lugs, connectors, labelling / tagging and foundations | ≥ 01 Nos. |
| 9 | AC Panel | <ul style="list-style-type: none"> Floor standing / wall mounted with MS powder coated finish 14 SWG or better Indoor / outdoor type as per requirement and / or Client's preference, with IP-56 or better rating With MCCB / ACB, digital meters, energy analyzers (Make: Datakom, Entes or approved equivalent.), Selector switches, CTs, phase indication lights (Make: Maruyasu Japan or Approved equiv.), fans, louvers with proper fixtures, thimbles, lugs, connectors, labelling / tagging and all other necessary fittings | ≥ 01 Nos. |
| 10 | Solar Panels Mounting Structure | <ul style="list-style-type: none"> Specific customized mounting structures shall be required for various roof-top locations/ segments Material Section (Purlin/Beam/Column): C/U-Channel/1 beam or better Thickness: 12 SWG / 2.75 mm for galvanized steel or better Support/bracing: 14 SWG /2.0 mm or better Parking shed shall be single/mono pitch. Rawal bolts SS 304, M10, L = 100 mm to fix frame with columns 04 nos. of galvanized anchor bolts (ASTM F959) or SS 304 may be used to fix base plate with concrete foundation. Welding job must be executed according to prevailing welding standards for structural steel work, if required Panels' orientation: south azimuth angle of $180^{\circ} \pm 20^{\circ}$ (180° corresponds to True South). Tilt angle shall be 15° or better PV Module shall be fixed with frame through SS 304, M8 x 30 mm Nuts/Bolts/Washers or Aluminum clamps (End/Mid) as per OEM recommendations while structure members (purlin, beam etc.) will be joined with each other through SS 304, M10 x 30 mm Nuts/Bolts/Washers. Washers should be used on both sides of bolts Solar panel lower end should be minimum 06 inches above from roof level and minimum distance between two panels will be 25 mm Rawal bolts SS 304, M10, L = 100 mm or better shall be used to fix frame with roof These fasteners must be tighten with pre-defined torque as per OEM recommendations. All fasteners must be adequately protected from atmosphere and weather conditions. Chemical sealant must be used during anchoring to give adhesion between bolt and concrete to avoid water leakage Design shall be appropriate, innovative and easy to install & | ≥33kWp DC |

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| | | <p>replace any module. Structure must be designed with appropriate factor of safety. The corners/ edges must be chamfered to avoid sharp edges. The array structure shall be grounded</p> <ul style="list-style-type: none"> • Sufficient distance of installed panels must be from parapet/ boundary wall to avoid shade on panels and to allow regular cleaning of solar panels, they should be easily accessible for personnel. • Mounting structure & foundation shall be designed with reference to the existing roof surface conditions to withstand wind speed of 150 km/h, using relevant Pakistani / International wind load codes. The successful bidder shall provide dynamic/wind analysis report using prevalent industrial software • Bidder must also submit certificates / documents / test reports along with relevant literature related to the quality and safety of structures. | |
| 11 | Civil work | <ul style="list-style-type: none"> • RCC foundation shall be used having minimum size of 12" x 12" x 12" with appropriate reinforcement / steel bars. foundation block shall be at least 1 feet above from ground level • 1:2:4 cement ratio must be used in all concrete works • Pad top shall also be slightly tapered to avoid water accumulation | As per req. |
| 12 | Earthing Protection | <ul style="list-style-type: none"> • 99.9% Copper, Single Core of suitable size/rating as per IEC 60364- 5-54, not less than 6mm² for exposed conductive parts. Sizing of earthing wire to be calculated, as per relevant IEC standard, for every equipment • Earth Resistance must not exceed 5 Ohms for any earthing pit. • DC Earthing to be installed as per IEC 60364-7 | ≥ 01 Nos. |
| 13 | Earth Pit | <ul style="list-style-type: none"> • Earth pit excavation of sufficient size (1.5m x 1.5m x 5.0m minimum) in hard rock / gravelly soil • Copper plate (99% pure of 500mm x 500mm x 10mm minimum) with 02 Nos. earth leads of bare copper conductor in mixture of wood, coal powder, salt and sand, with Mesh Resistances ≤ 1.0 Ohm • Earth Termination Point comprising of Copper 99.9% pure) strip, fitted with brass nuts, bolts, washers for installation / mounting with adequate inspection chamber | ≥ 01 Nos. |
| 14 | Zero Export Device | <ul style="list-style-type: none"> • Complete with Analyzer, CTs, PTs, etc. for monitoring and logging of real-time power flow values and other parameters • Make: Original/ Recommended as per Inverter • Associated Cat-VI or approved equiv. communication cable to be interfaced with Inverters | 01 No. |
| 15 | Firefighting | <ul style="list-style-type: none"> • Appropriate fire extinguishing equipment near each inverter / Point of Injection of Solar Power | 01 Set Per Inverter |

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| 16 | Other Accessories | <ul style="list-style-type: none"> High quality UPVC Conduits for DC Cables, perforated GI cable trays (size: 18 SWG or better) with caps for AC cables with cable ties, clamps, thimbles, etc. All other additional equipment/ parts which are necessary for smooth / efficient long term operation of solar PV systems | As per Req. |
| 17 | Installation/ Commissioning Services and Net Metering | <ul style="list-style-type: none"> Complete System Installation, Testing and Commissioning, complete in all respects Preparation and submission of Net Metering application and necessary documentation, pre-requisites, DISCO load flow studies etc. on behalf of Client and submit corresponding fees such as NEPRA fees, Demand Notices etc. as per site requirement Continued follow up of the case till activation of net metering and replacement / update of existing electrical infrastructure, if required, for net metering All fees / costs associated with Net Metering to be borne by supplier | 01 Job |

| 10-kWp Solar PV System at Pharmacy Jauharabad | | | |
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| Sr. no | Equipment | Specification | Qty |
| 01 | Solar PV Modules | <ul style="list-style-type: none"> Type: Tier-1, Class-A, N-Type, Monofacial with 35 mm frame or better Power rating 580W or higher, Anti-PID Make: Tier-1, A- Grade as per Bloomberg latest list i.e. Canadian Solar, Jinko solar, and JA solar. Standard compliance: IEC61730, 61215, ISO 9001, 14001 etc. Thermal power co efficient P_{max}: ≤ 0.29 %/ °C Efficiency ≥ 22.45 %, Positive tolerance only J.Box: factory equipped weather proof with minimum IP68 protection with provision of opening or replacement of DC cables, blocking diodes and convenient debugging, if required Loading Capacity: 5400pa (Positive load), 2400 Pa (negative load) provided with all performance and other relevant test reports/ certifications included but not limited to I-V Curve test, flash module test, hotspot test, Anti-PID test etc 12 years of product warranty, 30-year performance warranty or better | ≥ 10 KWp |
| 02 | Solar Inverter | <ul style="list-style-type: none"> Type:, Grid tied, 1/1.5kV (DC), 3-Phase, multi-MPPT, Make: Sungrow, Huawei. Size: As per optimal array design AC Voltage: 3/N/PE, 220V/380V, 230/400V AC Voltage Range: 310-480V Rated grid frequency: 50Hz/60Hz Inverter to PV ratio: optimal but not less than 0.9 per inverter | ≥ 10 kW AC output |

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| | | <ul style="list-style-type: none"> • Maximum Efficiency $\geq 98\%$ • Power Factor >0.99 (at rated power), 0.8 leading-0.8 lagging (Adjustable) • Total Harmonic Distortion (THD) $< 3\%$ (at rated power) • Grid support: Active and reactive power control • Standard compliance: IEC 62109-1/2, IEC 62116, IEC 61683 etc for safety, grid connectivity, parallel operation & other relevant standards • Degree of protection: IP65 or better • DC/AC SPDs: Type-2 or better • Warranty: 10 years local replacement with OEM certificate • Built with data logger, communication interfaces, protections and remote monitoring capability, provided with inspection report from reputed, independent third-party testing/inspection institution | |
| 03 | DC Cable | <ul style="list-style-type: none"> • 99.9% copper, double insulated, cross-linked insulation (XLPE/PO), Class 5, flexible tinned conductor • Size 6 mm² or more • Voltage level 1.5/1.5 KV for max PV system voltage up to 2kV • Operating Temperature: $-20^{\circ}\text{C} \sim 90^{\circ}\text{C}$, flexible weather resistant, UV resistant, ozone corrosion resistant, halogen free & flame retardant • Provided with all major test report such as conductor resistant test insulation resistant test, etc. • Standard compliance: IEC 62930:2017. IEC-60287, EN 50618 etc • Cables to be laid in conduits of high quality • Make: Pakistan/Fast | As per Req |
| 04 | AC Cable | <ul style="list-style-type: none"> • 4-core, 99% copper, PVC Insulated /PVC Sheathed or better • Standard compliance: IEC 60228, BS 6346 (Insulation). IEC-60364-5-52 (sizing) IEC-60287/BS-7671 • Make: Pakistan/Fast. | As per Req |
| 05 | DC Breaker | <ul style="list-style-type: none"> • MCB, 2 or 4 pole, 1000 VDC • Rated current, $I_{\text{rated}} : \geq 20\text{A}$ as per PVs/String • Max Breaking current, $I_{\text{max}} : \geq 5\text{kA}$ • Make: Schneider/Terasaki (Japan) or approved equivalent • Individual breaker for every string with manual operation feature • Standard compliance: IEC 60947-2 | 1 No. per string |
| 06 | AC Breaker | <ul style="list-style-type: none"> • MCCB, 4 Pole with adjustable rating to be placed at output side of each On-Grid Inverter • $I_{\text{cu}}: I_{\text{cs}} @ 415\text{V}$ • Max Breaking Current, $I_{\text{max}} : \geq 36\text{kA}$ • Make: Schneider Electric/ABB. • Standard Compliance : IEC 60947-2 | 1 No. per Inverter |

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| 07 | Surge Protection Devices | <ul style="list-style-type: none"> • 2 or 4-Pole, 1000VDC, Type II or better • Rated Current, $I_{rated} \geq 20A$, • Max Breaking Current, $I_{max} \geq 20kA$ • Make: Schneider Electric/ ABB/ Dehn Germany or approved equivalent • SPDs at each string shall be additional to inverter's built-in SPDs • Standard Compliance: IEC 61643-2 | <p>1 No. per DC string (DC SPD)</p> <p>1 no. (AC SPD)</p> |
| 8 | DC Panel / DB | <ul style="list-style-type: none"> • Floor standing / wall mounted with MS powder coated finish • 14 SWG or better • Indoor/ outdoor type as per requirement and/ or Client's preference • With fans, louvers, proper fixtures, thimbles, lugs, connectors, labelling / tagging and foundations | ≥ 01 Nos. |
| 9 | AC Panel | <ul style="list-style-type: none"> • Floor standing / wall mounted with MS powder coated finish • 14 SWG or better • Indoor / outdoor type as per requirement and / or Client's preference, with IP-56 or better rating • With MCCB / ACB, digital meters, energy analyzers (Make: Datakom, Entes or approved equiv.), selector switches, CTs, phase indication lights (Make: Maruyasu Japan or Approved equiv.), fans, louvers with proper fixtures, thimbles, lugs, connectors, labelling / tagging and all other necessary fittings | ≥ 01 Nos. |
| 10 | Solar Panels Mounting Structure | <ul style="list-style-type: none"> • Mounting Material: Carbon Steel (ASTM A-36) or Aluminum Alloy 6061-T6 (ASTM B-221) • Galvanization: Hot Dipped, Zinc coated of minimum 80 microns thickness (ASTM A123) • Configuration: L#/L@ structure/ customized structure or better • Material Section/shape: (Plain/lip)/ square tube or better • Thickness: 12 SWG / 2.75 mm for galvanized steel and 10 SWG/2.58 mm for aluminum alloy or better • Panels' orientation: south azimuth angle of $180^\circ \pm 20^\circ$ (180° corresponds to True South). Tilt angle shall be 15° or better • PV Module shall be fixed with frame through SS 304, M8 x 30 mm Nuts/Bolts/Washers or Aluminum clamps (End/Mid) as per OEM recommendations while structure members (purlin, beam etc.) will be joined with each other through SS 304, M10 x 30 mm Nuts/Bolts/Washers. Washers should be used on both sides of bolts. • Solar panel lower end should be minimum 06 inches above from roof level and minimum distance between two panels will be 25 mm • Rawal bolts SS 304, M10, L = 100 mm or better shall be used to fix frame with roof • Fasteners must be tighten with pre-defined torque as per OEM recommendations. Chemical sealant must be used during anchoring to give adhesion between bolt and concrete to avoid water leakage | ≥ 10 kWp DC |

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| | | <ul style="list-style-type: none"> Design shall be appropriate, innovative and easy to install & replace any module. Structure must be designed with appropriate factor of safety. The corners/ edges must be chamfered to avoid sharp edges. The array structure shall be grounded Sufficient distance of installed panels must be from parapet/ boundary wall to avoid shade on panels and to allow regular cleaning of solar panels, they should be easily accessible for personnel. Mounting structure & foundation shall be designed with reference to the existing roof surface conditions to withstand wind speed of 150 km/h, using relevant Pakistani / International wind load codes. The successful bidder shall provide dynamic/wind analysis report using prevalent industrial software Bidder must also submit certificates / documents / test reports along with relevant literature related to the quality and safety of structures. | |
| 11 | Civil work | <ul style="list-style-type: none"> PCC pad having minimum size of 8" x 8" x 6" around each frame leg 1:2:4 cement ratio must be used in all concrete work Pad top shall also be slightly tapered to avoid water accumulation | As per req. |
| 12 | Earthing Protection | <ul style="list-style-type: none"> 99.9% Copper, Single Core of suitable size/rating as per IEC 60364- 5-54, not less than 6mm² for exposed conductive parts. Sizing of earthing wire to be calculated, as per relevant IEC standard. Earth Resistance must not exceed 5 Ohms for any earthing pit. DC Earthing to be installed as per IEC 60364-7 | ≥ 01 Nos. |
| 13 | Earth Pit | <ul style="list-style-type: none"> Earth pit excavation of sufficient size (1.0m x 1.0m x 5.0m minimum) in hard rock / gravelly soil Copper plate (99% pure of 500mm x 500mm x 10mm minimum) with 02 Nos. earth leads of bare copper conductor in mixture of wood, coal powder, salt and sand, with Mesh Resistances ≤ 1.0 Ohm Earth Termination Point comprising of Copper 99.9% pure) strip, fitted with brass nuts, bolts, washers for installation / mounting with adequate inspection chamber | ≥ 01 Nos. |
| 14 | Lightning Arrestor | <ul style="list-style-type: none"> 1" Dia & 1m long rod with 5-spikes ball and base Earthing plate 1 x 1 ft. Earthing rod 5 ft long and 16mm dia 25mm x 1.6 mm cooper strip and earthing powder Antistatic Mast, GI pipe with cooper rods fixed on MS plate as per EN 62305-2 | ≥ 01 Nos. |

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| 15 | Zero Export Device | <ul style="list-style-type: none"> Complete with Analyzer, CTs, PTs, etc. for monitoring and logging of real-time power flow values and other parameters Make: Original/ Recommended as per Inverter Associated Cat-VI or approved equiv. communication cable to be interfaced with Inverters | 01 No. |
| 16 | Firefighting | <ul style="list-style-type: none"> Appropriate fire extinguishing equipment near each inverter / Point of Injection of Solar Power | 01 Set |
| 17 | Other Accessories | <ul style="list-style-type: none"> High quality perforated GI cable trays for AC & DC cables (size: 18 SWG or better) with caps, cables ties, clamps, thimbles, etc. All other additional equipment/ parts which are necessary for smooth / efficient long-term operation of solar PV systems | As per Req. |
| 18 | Installation/ Commissioning Services and Net Metering | <ul style="list-style-type: none"> Complete System Installation, Testing and Commissioning, complete in all respects Preparation and submission of Net Metering application and necessary documentation, pre-requisites, DISCO load flow studies etc. on behalf of Client and submit corresponding fees such as NEPRA fees, Demand Notices etc. as per site requirement Continued follow up of the case till activation of net metering and replacement / update of existing electrical infrastructure, if required, for net metering All fees / costs associated with Net Metering to be borne by supplier | 01 Job |

Note for All three System

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| 01 | Operation Manual: An Operation, Instruction and Maintenance Manual, in English shall be provided with the Solar PV System. The detailed diagram(s) of wiring and connection diagrams shall also be provided with the manual. |
| 02 | Requirement <ol style="list-style-type: none"> Remote Monitoring Basic environmental alarm like wind speed, temperature etc. |

Note: The Bidder is required to visit the site for the assessment of existing power supply arrangement for proper synchronization of solar inverter with the national grid.

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- Final decision will be taken by Tender Committee of the **PAEC Foundation** as per PPRA rules of the items mention at Serial No.1 and 6.

SECTION-IV: BID DATA SHEET

| S # | A. Particulars |
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| 1 | <ul style="list-style-type: none"> Name of Procuring Agency: PAEC Foundation Head Office, adjacent to NORI Hospital, Hanna Road, G-8/3 Islamabad. The Subject of Procurement: Providing / Installation of Complete Solar Solution at PAEC Foundation Pharmacy Jauharabad, Petrol Pump Jauharabad and Petrol Pump DG Khan. Period for Providing, Installation & Commissioning of Solar System: 30 days after issuance of supply order. Commencement date for delivery of systems: After Issuance of Letter of Acceptance (Award Letter / Work Order / Purchase Order) |
| 2 | <ul style="list-style-type: none"> Financial year for the operations of the Procuring Agency: 2025-26. Name of Financing Institution: PAEC Foundation |
| B. BIDDING DOUCMENT | |
| 3 | <ul style="list-style-type: none"> The address for clarification of Bidding Documents: PAEC Foundation Head Office, adjacent to NORI Hospital, Hanna Road, G-8/3 Islamabad. Pre-bid meeting will not be held |
| C. BID PRICE, CURRENCY, AND LANGUAGE | |
| 4 | <ul style="list-style-type: none"> Language: English |
| 5 | <ul style="list-style-type: none"> The Price quoted shall be inclusive of all applicable taxes in PKR on FOR Jauharabad & DG Khan basis. |
| 6 | <ul style="list-style-type: none"> The Price shall be fixed |
| D. PREPARATION AND SUBMISSION OF BIDS | |
| 7 | <p>Qualification Criteria/Knock down criteria</p> <ul style="list-style-type: none"> The firms should must have registration with SECP, PEC with relevant codes and Private Power and Infrastructure Board (PPIB) Minimum 5-year experience in the relevant filed as Manufacturers Authorized Dealers/ Distributors / Firms with Government Sector Organizations / Departments Documentary evidence of At least two similar Projects for Installation of complete solar solution for Public or Private Sector Organization. Registration with relevant tax authority i.e. FBR etc. as active tax payer (Sales Tax and Income Tax) The detailed evaluation Criteria is provided in table at page number 18. Affidavit to the effect that: - <ul style="list-style-type: none"> Bidder is neither currently blacklisted from any Government Department nor is any litigation pending in this regard The documents/photocopies provided with Bid are authentic In case of any fake / bogus document found at any stage, the Bidder shall be blacklisted as per Law/ Rules The provided information is correct |
| 8 | <p>Bid shall be submitted in Hard form:</p> <ul style="list-style-type: none"> General Manager (Projects), PAEC Foundation Head Office, adjacent to NORI Hospital, Hanna Road, G-8/3 Islamabad whereas, participation through EPADS as well is mandatory. |
| 9 | <p>The deadline for bid submission is</p> <ol style="list-style-type: none"> Day: Monday Date: 15-12-2025 Time: 11:00 AM in General Manager (Projects) Office. Bids/offers must be uploaded by the Bidders online through E-PADS at http://eprocure.gov.pk no later than the deadline for submission of Bids. |

| 10 | Date / Month / Year / Time and place for bid opening a. Conference Room PAEC Foundation, Head Office, adjacent to NORI Hospital, Hanna Road, G-8/3 Islamabad. b. Date: 15-12-2025, Time: 11:30 AM, | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------|-------------|-------------------------|------------------|------------------------|------------------|-------------------|------------------|--|------------------|--|------------------|---|------------------|---|------------------|---|------------------|--------------------------------|------------------|---|------------------|
| 14 | Number of copies of the bid to be provided are: Only one | | | | | | | | | | | | | | | | | | | | | | |
| E. OPENING AND EVALUATION OF BIDS | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | The Bid opening shall take place at: a. Conference Room PAEC Foundation b. Date: 15-12-2025 Time: 11:30 AM | | | | | | | | | | | | | | | | | | | | | | |
| 16 | The Currency that shall be used for Bid evaluation and comparison purposes to convert all bid prices expressed in various currencies is PRK | | | | | | | | | | | | | | | | | | | | | | |
| F. BID EVALUATION CRITERIA | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | <ul style="list-style-type: none"> The Technical proposals shall be evaluated by the purchase committee of PAECF in the light of following evaluation criteria in the light of PPRA Rules, 2004 (amended time to time). The Bidders who have duly complied with the mandatory and Eligibility Criteria will be eligible for further processing as mentioned below. <table border="1"> <thead> <tr> <th>Descriptions</th><th>Requirement</th></tr> </thead> <tbody> <tr> <td>Income Tax Registration</td><td>Mandatory</td></tr> <tr> <td>Sales Tax Registration</td><td>Mandatory</td></tr> <tr> <td>SECP Registration</td><td>Mandatory</td></tr> <tr> <td>PEC Registration in C5 or above Category with Relevant codes e.g. (EE04, EE06, EE11)</td><td>Mandatory</td></tr> <tr> <td>Registration with Private Power and Infrastructure Board (PPIB) as Certified Installers under AEDB (Certification) Regulations, 2021 with Category C-1 and above</td><td>Mandatory</td></tr> <tr> <td>Duly filled in item wise Price Schedule</td><td>Mandatory</td></tr> <tr> <td>Conformance to the Specifications given in the Tender Document Supported with Data Sheets</td><td>Mandatory</td></tr> <tr> <td>Documentary evidence of At least Two similar Projects for installation of ON Grid Solar Solution with net-metering evidence of Generation License with the respective DISCO for Public or Private Sector Organization</td><td>Mandatory</td></tr> <tr> <td>Affidavit of Non-Black Listing</td><td>Mandatory</td></tr> <tr> <td>Affidavit to installation of items in 30 days</td><td>Mandatory</td></tr> </tbody> </table> <p>Note:</p> <ul style="list-style-type: none"> Verifiable documentary proofs for all above requirements are mandatory Vendor/ Supplier will be responsible for the inspection & Demonstration of the supplied descriptions in client environment as per client's requirements The Bids which do not conform to the Technical Specifications or Bid conditions or Bids from the Bidders without adequate capabilities for supply of descriptions will be rejected in the light of PPRA Rules 2004 (amended time to time). The Eligible/Technically Qualified Bidders will be considered for further evaluation | Descriptions | Requirement | Income Tax Registration | Mandatory | Sales Tax Registration | Mandatory | SECP Registration | Mandatory | PEC Registration in C5 or above Category with Relevant codes e.g. (EE04, EE06, EE11) | Mandatory | Registration with Private Power and Infrastructure Board (PPIB) as Certified Installers under AEDB (Certification) Regulations, 2021 with Category C-1 and above | Mandatory | Duly filled in item wise Price Schedule | Mandatory | Conformance to the Specifications given in the Tender Document Supported with Data Sheets | Mandatory | Documentary evidence of At least Two similar Projects for installation of ON Grid Solar Solution with net-metering evidence of Generation License with the respective DISCO for Public or Private Sector Organization | Mandatory | Affidavit of Non-Black Listing | Mandatory | Affidavit to installation of items in 30 days | Mandatory |
| Descriptions | Requirement | | | | | | | | | | | | | | | | | | | | | | |
| Income Tax Registration | Mandatory | | | | | | | | | | | | | | | | | | | | | | |
| Sales Tax Registration | Mandatory | | | | | | | | | | | | | | | | | | | | | | |
| SECP Registration | Mandatory | | | | | | | | | | | | | | | | | | | | | | |
| PEC Registration in C5 or above Category with Relevant codes e.g. (EE04, EE06, EE11) | Mandatory | | | | | | | | | | | | | | | | | | | | | | |
| Registration with Private Power and Infrastructure Board (PPIB) as Certified Installers under AEDB (Certification) Regulations, 2021 with Category C-1 and above | Mandatory | | | | | | | | | | | | | | | | | | | | | | |
| Duly filled in item wise Price Schedule | Mandatory | | | | | | | | | | | | | | | | | | | | | | |
| Conformance to the Specifications given in the Tender Document Supported with Data Sheets | Mandatory | | | | | | | | | | | | | | | | | | | | | | |
| Documentary evidence of At least Two similar Projects for installation of ON Grid Solar Solution with net-metering evidence of Generation License with the respective DISCO for Public or Private Sector Organization | Mandatory | | | | | | | | | | | | | | | | | | | | | | |
| Affidavit of Non-Black Listing | Mandatory | | | | | | | | | | | | | | | | | | | | | | |
| Affidavit to installation of items in 30 days | Mandatory | | | | | | | | | | | | | | | | | | | | | | |
| G. Award of Contract | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | Percentage for quantity increase OR decrease is: 15% if needed. | | | | | | | | | | | | | | | | | | | | | | |
| 19 | The Performance Guarantee shall be: 05% of the total cost | | | | | | | | | | | | | | | | | | | | | | |
| 20 | The Performance Security (or guarantee) shall be in the form of: Bank Guarantee/ CDR/ Pay Order/Bank Guarantee (Bank guarantee may be called if deemed necessary) | | | | | | | | | | | | | | | | | | | | | | |

SECTION-V: GENERAL CONDITIONS OF CONTRACT/ PROCUREMENT

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| 1. Definitions | <p>In this Contract, the following terms shall be interpreted and indicated:</p> <ol style="list-style-type: none"> "The Contract" means the agreement entered into between PAEC Foundation Islamabad and the Supplier, as recorded in the Contract Form / purchase order / work order signed by the parties "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations "The Goods" means all of the items or other materials which the Supplier is required to supply to the Procuring Agency under the Contract "GCC" mean the General Conditions of Contract contained in this section "The Procuring Agency" means PAEC Foundation Islamabad "The Procuring Agency's country" is Pakistan "The Supplier" means the Bidder or firm supplying the Goods and Services under this Contract |
| 2. Country of Origin | All Goods and Services supplied under the Contract shall have their origin in the countries and territories eligible under the rules |
| 3. Standards <i>[where applicable]</i> | The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications. |
| 4. Use of Contract Documents and Information; Inspection and Audit by the procuring agency | <ol style="list-style-type: none"> The Supplier shall not, without the Procuring Agency's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring Agency in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance The Supplier shall not, without the Procuring Agency's prior written consent, make use of any document or information enumerated in GCC except for purposes of executing the Contract Any document, other than the Contract itself, shall remain the property of the Procuring Agency and shall be returned (all copies) to the Procuring Agency on completion of the Supplier's Performance under the Contract if so required. |
| 5. Performance Guarantee | <ol style="list-style-type: none"> Within ten (10) days of receipt of the notification of Contract award, the successful Bidder shall furnish to the Procuring Agency the Performance Guarantee equivalent to the 5% of the total Value in Pak Rupee of the contract /purchase order The performance guarantee shall be denominated in the currency of the Contract acceptable to the Procuring Agency and shall be in one of the following forms: <ul style="list-style-type: none"> Bank Guarantee issued by a reputable bank located in the Procuring Agency's country/city, in the form provided in the Bidding documents or another form acceptable to the Procuring Agency; or Bank Guarantee, Bank call-deposit (CDR), Demand Draft (DD), Pay Order (PO) The performance guarantee will be discharged by the PAEC Foundation 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 |
| 6. Inspections & Tests | <ol style="list-style-type: none"> The PAEC Foundation or its representative shall have |

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| | <p>the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring Agency and the Technical Specifications shall specify what inspections and tests the Procuring Agency requires and where they are to be conducted The Procuring Agency shall notify the Supplier in writing, in a timely manner, of the identity of any representatives nominated for these purposes</p> <p>ii. The inspections and tests may be conducted on the premises of the Supplier at point of delivery, and/or at the Goods' final destination if conducted on the premises of the Supplier, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the PAEC Foundation.</p> <p>iii. If any inspected or tested Goods fail to conform to the Specifications, the National Book Foundation may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the PAEC Foundation</p> |
| 7. Installation | <p>i. The Supplier shall provide such installation of the Goods as is required to prevent their damage or deterioration during transit to their final destination. The installation shall be sufficient to withstand, without limitation and rough handling during transit. Packing case size and weights shall take into consideration, where appropriate.</p> <p>ii. The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in and in any subsequent instructions ordered by the Procuring Agency</p> |
| 8. Transportation | The Supplier is required under the Contract to transport the Goods to a specified place of destination i.e. Jauharabad and DG Khan. |
| 9. Warranty | <p>i. The Supplier warrants for at least 1 years after sale service for the goods procured / supplied.</p> <p>ii. Goods supplied under the Contract are new, unused, of the most recent or models selected by the Procuring Agency. He further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials.</p> <p>iii. The Procuring Agency shall promptly notify the Supplier in writing of any claims arising under this warranty on receipt of such notice, the Supplier shall, repair or replace the defective Goods, without costs to the Procuring Agency</p> <p>iv. If the Supplier, having been notified, fails to rectify the defect(s) within the period specified, within a reasonable period, the Procuring Agency may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring Agency may have against the Supplier under the Contract/relevant provision of PPRA-2004 including Blacklisting</p> |
| 10. Payment | <p>i. The Supplier's request(s) for payment shall be made to the Procuring Agency in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted and upon fulfillment of other obligations stipulated in the Contract</p> <p>ii. As per PPRA-2004, payments shall be made promptly by the Procuring Agency, after submission of an invoice or claim by the Supplier, provided the work is satisfactory</p> <p>iii. Payments will be made by PAEC Foundation after deduction of all applicable taxes/ duties by the Government of Pakistan.</p> <p>iv. The currency of payment is PKR which shall be paid in shape of</p> |

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| | crossed cheque |
| 11. Prices | Prices including all taxes charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its Bid. |
| 12. Liquidated Damages | When the supplier fails to deliver the goods within the time period specified in the contract, the Purchase Committee may, without prejudice to any other remedy it may have under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.1% of the price of the delayed goods per day of delay, maximum up to 10% of the price of total value of the contract |
| 13. Termination for Default | <p>The Procuring Agency, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:</p> <ul style="list-style-type: none"> • if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring Agency • if the Supplier fails to perform any other obligation(s) under the Contract; or • if the Supplier, in the judgment of the Procuring Agency has engaged in corrupt practices in competing for or in executing the Contract <p>In the event the Procuring Agency terminates the Contract in whole or in part, the Procuring Agency may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Procuring Agency for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated</p> |
| 14. Force Majeure | <p>i. Notwithstanding the provisions laid down in ITB the Supplier shall not be liable for forfeiture of its Performance Guarantee, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure</p> <p>ii. For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable Such events may include, but are not restricted to, acts of the Procuring Agency in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes Both, the Procuring Agency and the Supplier, may agree to exclude certain widespread conditions e.g epidemics, pandemics, quarantine restrictions etc from the purview of "Force Majeure"</p> <p>iii. If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring Agency in writing of such condition and the cause thereof Unless otherwise directed by the Procuring Agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event Any difference of opinion concerning "Force Majeure" may be decided through means given herein below</p> |
| 15. Termination for Insolvency | Procuring Agency may at any time terminate the Contract by giving written notice to Supplier if the Supplier becomes bankrupt or otherwise insolvent In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Agency |

| | |
|--|--|
| 16. Termination for Convenience | <p>i. The Procuring Agency, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Procuring Agency's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective</p> <p>ii. The Goods that are complete and ready for installation (if applicable) within fifteen (15) days after the Supplier's receipt of notice of termination shall be accepted by the Procuring Agency on the Contract terms and prices for the remaining Goods, the Procuring Agency may choose:</p> <ul style="list-style-type: none"> • to have any portion completed and delivered at the Contract terms and prices; and/or • to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Services and for materials and parts previously procured by the Supplier |
| 17. Resolution of Disputes | <p>The PAEC Foundation and the Service Provider shall make every effort to amicably resolve, by direct informal negotiation, any disagreement or dispute arising between them under or in connection with the Contract. If, after thirty working days, from the commencement of such informal negotiations, the PAEC Foundation and the Service Provider have been unable to amicably resolve a Contract dispute, either party may, require that the dispute be referred to Managing Director, NBF being the final Authority after personal hearing of both the parties.</p> |
| 18. Applicable Law | <p>The Contract shall be interpreted in accordance with the laws of Pakistan unless otherwise specified in this document</p> |
| 19. Taxes and Duties | <p>Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods & Services to the Procuring Agency</p> |
| 20. Retention Money | <p>i. Percentage of Retention Money: 5% (Five percent) of the amount of Interim Payment Certificate.</p> <p>ii. Release of retention money: 100% (Hundred percent) after successful completion of maintenance period of 365 days.</p> |

BIDDER PROFILE FORM

[To be signed & stamped by the Bidder and reproduced on the letter head to be attached with Technical Bid]

| Sr. No. | PARTICULAR |
|---------|--|
| 1. | Name of the Company |
| 2. | Registered Office Address: |
| | National Tax Number: (attached copy) |
| | Sales Tax Registration Number: (attached copy) |
| | Professional Tax Number: (attached copy) |
| | Office Telephone Number: Mobile No.: |
| | Fax Number: Email Address: |
| | Website Address: |
| 3. | Contact Person |
| | Name: Designation: |
| | Personal Telephone No. |
| | Email Address: |
| | Local Office if any: |
| | Address: |
| | Office Telephone No. Fax No. Mobile No. |

a) Financial Statement Attachment / Income Tax Return (Last _____ year)
Yes / No

b) Detail of Experience (Last 03 Years):

| | | | |
|----|---|------------------|-------------------|
| 1. | Similar Project (Agency/Department) | Item Name | Amount Rs. |
| | | | |
| | | | |
| | | | |
| 2. | Value of Total projects / Tenders / POs (Total Amount Rs.) | | |

AFFIDAVIT

[To be printed on PKR 500 Stamp Paper, duly attested by oath commissioner to be attached with

Name: _____ (Applicant)

I, the undersigned, do hereby certify that all the statements made in the Bidding document and in the supporting documents are true, correct and valid to the best of my knowledge and belief and may be verified by employer if the Employer, at any time, deems it necessary

The undersigned hereby authorize and request the bank, person, company or corporation to furnish any additional information requested by the *[name of Procuring Agency]* of the Punjab deemed necessary to verify this statement regarding my (our) competence and general reputation

The undersigned understands and agrees that further qualifying information may be requested and agrees to furnish any such information at the request of the *[name of Procuring Agency]*
The undersigned further affirms on behalf of the firm that:

- i. The firm is neither currently blacklisted by any Department nor any litigation is pending before PPRA or any other court of law competence in this regard against any such blacklisting order
- ii. The documents/photocopies provided with Bid are authentic In case, any fake/bogus document was found at any stage, the firm shall be blacklisted as per Law/ Rules
- iii. Affidavit for correctness of information
- iv. Contractor/firm is not blacklisted or subject to any pending litigation with any Government or Public Department

[Name of the Contractor/ Bidder/ Supplier] undertakes to treat all information provided as confidential

Signed by an authorized Officer of the company

Title of Officer: _____

Name of Company: _____

Date: _____

CONTRACT FORM

[To be signed & stamped by the Bidder and reproduced on the letter head to be attached with Technical Bid]

THIS AGREEMENT made on the _____ day of _____ 20____ between *[name of Procuring Agency]* of *[country of Procuring Agency]* (hereinafter called “the Procuring Agency”) on the one part and *[name of Supplier]* of *[city and country of Supplier]* (hereinafter called “the Supplier”) on the other part:

WHEREAS the Procuring Agency invited Bids for certain goods and ancillary services, viz, *[brief description of goods and services]* and has accepted a Bid by the Supplier for the supply of those goods and services in the sum of *[contract price in words and figures]* (hereinafter called “the Contract Price”)

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement 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 Agreement, viz:
 - (a) the Bid Form and the Price Schedule submitted by the Bidder;
 - (b) the Schedule of Requirements;
 - (c) the Technical Specifications;
 - (d) the General Conditions of Contract;
 - (e) the Procuring Agency’s Notification of Award
 - (f) Contract agreement
 - (g) Complete Bidding document

In consideration of the payments to be made by the Procuring Agency to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring Agency to provide the goods and services and to rectify defects therein in conformity with all respects in accordance with the provisions of the Contract

The Procuring Agency hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the rectification 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 Agreement to be executed in accordance with their respective laws the day and year mentioned above

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

Signed, sealed, delivered by _____ the _____ (for the Supplier)

FINANCIAL BID FORM/PRICE SCHEDULE

[To be signed & stamped by the Bidder and reproduced on the letter head to be attached with Financial Bid]

| Sr # | DESCRIPTION OF WORK | Rates Required to be Quoted for Complete Solar Solutions (in Pak Rs.) |
|---------|---------------------|--|
| | | On Grid 75 KW |
| 1. | | |

1. Installation of Solar System at Pharmacy Jauharabad, Petrol Pump Jauharabad and Petrol Pump DG Khan.
2. Total Bid value (against which a Bid shall be evaluated) in figure Total Bid value (against which a Bid shall be evaluated) in words

Note:

In case of difference between unit price and total price, unit price shall prevail and total Price shall be "final"
In case of difference between amount in "words" and amount in "figures", amount in "words" shall be considered final

EVALUATION CRITER

The weights given to the Technical Proposals are:

Technical: 100

Technical qualification status shall be decided on the basis of applicant/firm securing at-least 50% marks in each category and securing a minimum of 70% marks overall & above marks in technical evaluation will be called for financial proposal opening only, whereas the financial proposals of the firms obtaining less marks than 70 % will be returned unopened.

The evaluation committee shall determine whether the financial proposals are complete and without computational errors. The lowest financial bidder will call for negotiation & award of contract

TECHNICAL EVALUATION CRITERIA

| S. No | Evaluation Criteria | Total Marks | Marks Obtained | Remarks |
|--------|--|-------------|----------------|---------|
| 1 | Registration of firm in Statutory bodies like: i. Valid PEC Registration in C5 category or above with relevant codes ii. SECP iii. Private Power and Infrastructure Board (PPIB) iv. FBR (Income + Sales Tax) | 5 | | |
| | | 3 | | |
| | | 10 | | |
| | | 2 | | |
| | | 20 | | |
| 2 (i) | General Experience – ON Grid Solar System: Projects completed (Work Order and Project completion certificate and generation licenses as proof should be provided along with net-metering evidence the generation license from the respective DISCO) <u>Marks Distribution:</u> 100 kWp or above= 5 marks per project 50 kWp to 99 kWp =3 marks per project 10 kWp to 49 kWp = 2 marks per project Note: Maximum 5 projects will be considered | 25 | | |
| 2 (ii) | Projects in hand (Work Order/ Evidence of work in hand should be provided) <u>Marks Distribution:</u> 100 kWp or above= 5 marks per project 50 kWp to 99 kWp = 3 marks per project 10 kWp to 49 kWp = 2 marks per project Note: Maximum 2 projects will be considered | 10 | | |
| 3 | Personnel Capabilities (Attach copies of CVs along with the affidavit stating the availability of Engineers for the Project: i. <u>Qualified Graduate Engineers</u> a. Minimum 5 Years' Experience in Solar Industry. (2 Marks for each Year Greater than 5.) b. Pay slip of Last 6 Months c. PEC Registered | 10 | | |
| 4 | Past Client / customer performance certificate/ feedback issued by Client on its letter head (2 Marks for Each) | 10 | | |

| | | | | |
|---|---|------------|---------------------------------|--|
| 5 | Presentation on Execution plan, Brief Presentation on understanding of project, Layout Plan, Design and execution plan along with O&M strategies. | 10 | | |
| 6 | Affidavit to installation of items in 30 days | 10 | | |
| 7 | Equipment Capacities: i. PV Analyzer. (1 Mark) ii. GPS Meter. (1 Mark) iii. Megger / Earth Resistance Tester (1Mark) iv. AC/DC Clamp Meter (1 Mark) v. Repair/ Workshop Facility (1 Mark) | 5 | | |
| | Total: | 100 | Minimum qualification marks 70% | |

Note:

Please attach documentary evidence in support of your capabilities claims