



**OFFICE OF THE
PROJECT DIRECTOR
CHANGE MANAGEMENT UNIT, ISLAMABAD
- - - - Re-Tender Notice # 05, F.Y 2022-23- - - -
SUPPLY, INSTALLATION & COMMISSIONING OF SOLAR POWER ENERGY
SYSTEM-ON GRID WITH NET METERING**

Islamabad Police intends to procure, installation & commissioning of Solar System with Net Metering under its development project titled "**Establishment of Change Management Unit within ICT Police**" for Financial Year 2022-23. Interested bidders having valid NTN / STRN may download tender documents from PPRA & Islamabad Police websites. Sealed tenders on firm's letter head will be received by hand only till 11:00 AM on **19th Oct 2022 (Wednesday)** and will be opened on same day at 11:30 AM. This tender notice may also be seen on PPRA website & Islamabad Police websites.

Project Director,
CMU, Islamabad.

ISLAMABAD CAPITAL TERRITORY POLICE

Under its development project titled

“Establishment of Change Management Unit within ICT Police”



Request for Proposal (RFP)

For

Supply, Installation, Commissioning of Solar Power Energy System – On Grid System with Net Metering

Islamabad Capital Territory Police

www.islamabadpolice.gov.pk

Sep- 2022

**Tender Documents for Supply, Installation, Commissioning of Solar Power Energy System – On Grid System
with Net Metering**

INSTRUCIONS TO BIDDERS (ITB):

Introduction

1. **Source of Funds** 1.1 The Government of Pakistan allocates funds to the Islamabad Capital Territory Police under the Project Titled “Establishment of Change Management Unit within ICT Police”.
2. **Eligible Bidders** 2.1 This Invitation for Bids is open to all firms having **valid NTN and GST (STRN) registration in Pakistan.**
 - 2.2 It is compulsory for the firms to be on the “**Active Taxpayers List**” of the Federal Board of Revenue (both income tax and sales tax) otherwise the bid will be unconditionally rejected.
 - 2.3 Firm must be maintaining a bank account in a **scheduled bank / branch** of the State Bank of Pakistan. A fresh **solvency certificate with regard to soundness of the firm** duly issued from the concerned bank / branch is compulsory for successful participation in tender.
 - 2.4 Firm must have an operating/active **telephone landline number(s), fax** as well as **mobile number(s)** and **email address** to avoid any kind of communication problem.
 - 2.5 Firms/Companies from all over Pakistan can apply. Moreover, Firms/Companies must be authorized distributors/dealers.
 - 2.6 Government-owned enterprises in Pakistan may participate only if they are legally and financially autonomous and if they operate under commercial law.
 - 2.7 Bidders shall not be under a **declaration of ineligibility/blacklisted** by any Government (Federal & Provincial), a local body or any public sector organization.
3. **Eligible Goods and Services** 3.1 All goods / items to be supplied under the contract shall have their origin in Pakistan or outside. Moreover, all expenditures made under the contract will be limited to such goods and services.
 - 3.2 For purposes of this clause, “origin” means the place where the goods / items are produced, or the place from which the related services are supplied.

4. **Cost of Bidding** 4.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and Islamabad Capital Territory Police, herein after referred to as “the Purchaser” shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

THE BIDDING PROCEDURE

5. **Single stage – two envelop bidding procedure** 5.1 Single stage – two envelope bidding procedure shall be applied as per **PPRA Rules 36(b)**:
- (i) The bid shall comprise a single package containing separately sealed technical proposal and financial proposal.
- The envelops shall be marked as “BID FOR Supply, Installation, Commissioning of Solar Power Energy System – On Grid System with Net Metering
- (ii) ISLAMABAD CAPITAL TERRITORY POLICE UNDER THE PROJECT TITLED (ESTABLISHMENT OF Change Management Unit within ICT POLICE)” along-with the name of bidder.
 - (iii) The Technical Bid will be opened in the presence of the representatives of the participating firms **who choose to attend the process**:
 - (iv) It is mandatory for all participating firms to provide complete specifications of offered items. It is preferable to provide samples for official record.
 - (v) **The Purchaser shall evaluate the technical proposal without reference to the price and reject any proposal which do not conform to the specified requirements:**
 - (vi) After finalization of technical bids, the Financial Bid of technically qualified firms will be opened in the presence of the representatives of the participating firms who choose to attend the process:
 - (vii) **The lowest financial bid (inclusive of applicable taxes and duties) of technically qualified bidder shall be declared unconditionally successful in case of each item.**

THE BIDDING DOCUMENTS

6. **Content of Bidding Documents** 6.1 The bidding procedures for required items and contract terms are prescribed in the bidding documents. In addition to the invitation for Bids, the bidding documents include:
- (a) Instructions to Bidders (ITB)
 - (b) General Conditions of Contract (GCC)
 - (c) Special Conditions of Contract (SCC)
 - (d) Schedule of Requirements
 - (e) Technical Specifications
 - (f) Contract Form
 - (g) Performance Guaranty Form
 - (h) Price Schedule
- 6.2 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information in a correct manner as required by the bidding documents shall result in unconditional rejection of bid. Furthermore, submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder’s risk and may result in the rejection of its bid.

7. **Clarification of Bidding Documents** 7.1 A prospective Bidder requiring any clarification of the bidding documents may notify the Purchaser in writing at the Purchaser's address indicated in the invitation for Bids. The Purchaser will respond in writing to any request for clarification of the bidding documents, which it receives not later than three (03) working days prior to the deadline for the submission of bids prescribed in the Invitation for Bids. Written copies of the Purchaser's response (including an explanation of the query but without identifying the source of inquiry) will be sent to all prospective bidders that have received the bidding documents.
8. **Amendment of Bidding Documents** 8.1 At any time prior to the deadline for submission of bids, the Purchaser, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, may modify the bidding documents by amendment.
- 8.2 All prospective bidders that have received the bidding documents will be notified of the amendment in writing, and will be binding on them.
- 8.3 In order to allow prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the Purchaser, at its discretion, may extend the deadline for the submission of bids.

PREPARATION OF BIDS

9. **Language of Bid** 9.1 The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser shall be written in English. Supporting documents and printed Literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Bid, the translation in English shall govern.
10. **Documents Comprising the Bid** 10.1 The bid prepared by the Bidder shall comprise the following components:
- (a) A **Price Schedule** completed in accordance with ITB Clauses 11, 12 and 13 (to be submitted along-with the proposal);
 - (b) Documentary evidence established in accordance with ITB Clause 14 that the **Bidder is eligible to bid and is qualified to perform the contract** if its bid is accepted;
 - (c) Documentary evidence established in accordance with ITB Clause 15 that the items to be supplied by the Bidder are **eligible goods and conform to the bidding documents**; and
 - (d) **Bid security** furnished in accordance with ITB Clause 16.
11. **Form of Price Schedule** 11.1 The Bidder shall complete the appropriate Price Schedule furnished in the bidding documents by printing the same on company / firm letter head, indicating the items to be supplied, a brief description of the items, packing, quantity, and price. **Any interlineations, erasures, or overwriting in Price Schedule / Financial Bid shall be invalid and the tender shall be unconditionally rejected.**
12. **Bid Prices** 12.1 The Bidder shall indicate on the attached Price Schedule on company / firm letter head, the unit prices and total bid price of the items, it proposes to supply under the contract as mentioned in ITB clause 11.
- 12.2 Form of price Schedule is to be filled in very carefully and must be typed. Any alteration/ correction is strictly not allowed and shall render the bid to be unconditionally rejected. Every page is to be signed and stamped at the bottom. Name of the person (s) signing & the company stamp should be used.
- 12.3 The bidder should quote the prices of items according to the technical specifications and currency as provided in the Form of Price Schedule and Technical Specifications. The specifications of items, different from the demand of enquiry, will straightway be rejected.

- 12.4 The prices offered by the bidder will be valid and binding on the bidder throughout the period of contract.
- 12.5 The bidder is required to offer competitive price. All prices must include the General Sales Tax (GST), other taxes, duties, **where applicable**. If there is no mention of taxes, the offered/quoted price will be considered as inclusive of all prevailing taxes / duties. The benefit of exemption from or reduction in the GST or other taxes shall be passed on to the purchaser.
- 12.6 **Any change in tax rate / duties i.e. increase or decrease, after the submission of bids to the purchaser, shall be adjusted as an addition or reduction in prices of each item.** No other statement at any place in this bidding documents shall supersede clause 12.6. All bidders to note for strict compliance.
- 12.7 Prices offered should be for the entire quantity demanded; partial quantity offers shall straightaway be rejected. Any type of conditional offer will also be considered as non-responsive bidder and will be rejected.
- 12.8 While tendering quotation, the market trend / inflation in the rate of goods and services in the market should be kept in mind. No request for increase in price due to market fluctuation in the cost of goods and services will be entertained till the end of contract.
- 12.9 Prices offered should be for the entire contract period. No change in price is allowed after opening of financial bids except any change covered under ITB clause 12.6.
- 12.10 Prices shall include all type of costs which may include packing, transportation, delivery, installation /commissioning and any other type of expenditure associated with the goods. No extra payment of any kind will be made to the successful bidder.
- 13 **Bid currencies** 13.1 **Prices shall be quoted in Pak Rupees Only.**
- 14 **Bidder's Eligibility and Qualification** 14.1 Pursuant to ITB Clause 10, the Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the contract if its bid is accepted.
- 14.2 The documentary evidence of the Bidder's eligibility to bid shall establish to the Purchaser's satisfaction that the Bidder, at the time of submission of its bid, is an eligible as defined under ITB Clause 2.
- 14.3 The documentary evidence (to be submitted along with the proposal) of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Purchaser's satisfaction:
- (a) National Tax Number (NTN) and **Sales Tax Registration Number(STRN)** with documentary proof will have to be provided by each bidder in the tender.
 - (b) The bidder/manufacturer will submit an **affidavit on legal stamp paper of Rs.20/-** that their firm has not been blacklisted in the past on any ground by any Government (Federal, Provincial), a local body or a public sector organization. On account of submission of any false statement the bidder will be straightway rejected. The decision will be final one and non-challengeable.
 - (c) **Fresh solvency certificate** issued by a scheduled bank / branch of the State Bank of Pakistan with regard to the financial soundness of the firm.
 - (d) The brochures/leaflets containing information regarding quoted item(s) must be attached with the proposal to judge the specification of the quoted item(s).

- 15 **Eligibility and Conformity to Bidding Documents**
- 15.1 Pursuant to ITB Clause 10, the Bidder shall furnish along-with the proposal, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all items, which the Bidder proposes to supply under the contract.
- 15.2 The documentary evidence of the eligibility of the items shall consist of a statement in the Price Schedule of the country of origin of the goods offered which a certificate of origin issued by the manufacturer shall confirm (if applicable).
- 15.3 The bidder MUST produce along-with the proposal, literatures of quoted product (s) according to the strength and packing of demand of enquiry.
- 16 **Bid Security**
- 16.1 Pursuant to ITB Clause 10, the Bidder shall furnish, as part of its proposal, a bid security in the amount specified in SCC.
- 16.2 The bid security is required to protect the Purchaser against the risk of Bidder's conduct, which would warrant the security's forfeiture, pursuant to ITB Clause 16.3.
- 16.3 In case of more than one sample for any item, bid security shall be calculated according to the highest quoted price.
- 16.3 The bid security may be forfeited:
- (a) If a Bidder withdraws its bid during the period of bid validity; or
 - (b) In the case of a successful Bidder, if the Bidder fails:
 - (1) To sign the contract in accordance with Clause 33;
 - (2) To complete the supplies in accordance with Clause 20 of the General Condition of Contract.
- 17 **Bid Validity**
- 17.1 Bids shall remain valid for the period of three (03) months after the date of opening of bids prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.
- 17.2 The purchaser shall ordinarily be under an obligation to process and evaluate the bid within the stipulated bid validity period. However under exceptional circumstances and for reason to be recorded in writing, if an extension is considered necessary, all those who have submitted their bids shall be asked to extend their respective bid validity period. Such extension shall be for not more than the period equal to the period of the original bid validity.
- 17.3 Bidders who –
- (a) Agree to the procuring agency's request for extension of bid validity period shall not be permitted to change the substance of their bids; and
 - (b) Do not agree to an extension of the bid validity period shall be allowed to withdraw their bids without forfeiture of their bid securities (earnest money).
- 18 **Format and Signing of Bid**
- 18.1 The bidder shall prepare and submit an original bidding document obtained from the office of Project Director along with original receipt.
- 18.2 The original bid shall be typed in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the contract. The person or persons signing the bid shall initial all pages of the bid along-with stamp.
- 18.3 Any interlineations, erasures, handwriting or overwriting in Technical bid shall be invalid.
- 18.4 Any interlineations, erasures, handwriting or overwriting in Financial bid shall be invalid and the tender shall be unconditionally rejected.

SUBMISSION OF BIDS

19	Sealing and Marking of Bids	19.1	The name of tender may be written on envelop in bold and legible letters to avoid confusion. Similarly, the bidder shall seal the proposals/bid in envelope.
		19.2	The inner and outer envelopes shall: <ul style="list-style-type: none"> (a) Be addressed to the Purchaser at the address given in the invitation for Bids i.e. CMU Project, office of the Project Director, Police Lines Headquarters, Sector H-11, Islamabad; and (b) Bear the Name of Islamabad Police and name indicated in the invitation for Bids, and a statement: “DO NOT OPEN BEFORE,” to be completed with the time and the date specified in the IFB.
		19.3	The inner envelopes shall also indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared as “non-responsive” or “late”.
		19.4	If the outer as well as inner envelopes are not sealed and marked as required by ITB Clause 19.2, the Purchaser will assume no responsibility for the bid’s misplacement or premature opening.
20	Deadline for Submission of Bids	20.1	Bids must be submitted by hand and to be received by the Purchaser at the address specified under ITB Clause 19.2 not later than the time and date specified in the Invitation for Bids. The bidders are encouraged to arrive at the Purchaser’s specified address 30 minutes before the bid submission time to avoid delay resulting from any unforeseen event including Traffic Jams, Security clearance at Check Points or Entry Gates / Reception of the premises. The bidders’ representatives who are submitting the bid shall sign the Attendance Sheet evidencing their participation otherwise bid shall not be acceptable.
		20.2	The Purchaser may, at its discretion, extend this deadline for the submission of bids by amending the bidding documents in accordance with ITB Clause 8, in which case all rights and obligations of the Purchaser and bidders previously subject to the deadline will thereafter be subject to the deadline as extended. Any extension of deadline without writing is not allowed.
21	Late Bid	21.1	Any bid received by the Purchaser after the deadline (date and time) for submission of bids prescribed by the Purchaser pursuant to ITB Clause 20 will be rejected and returned unopened to the bidder.
22	Withdrawal of Bids	22.1	The bidder may withdraw its bid after the bid’s submission / signature on attendance sheet and prior to the deadline prescribed for submission of bids by giving a written application on firm’s letter head. Representative of the firm is advised to keep extra letter head at all times.
		22.2	No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in ITB Clause 17. Withdrawal of a bid during this interval may result in the bidder’s forfeiture of its bid security (earnest money), pursuant to the ITB Clause 16.3(a).

OPENING AND EVALUATION ON BIDS

23	Opening of Bids by the Purchaser	23.1	The Purchaser will open the sealed bids in the presence of bidders’ representatives (who choose to attend the process) at the time, on the date, and at the place specified in the invitation for Bids.
		23.2	The bidders’ names, item(s) for which they quoted their rate and such other details as the Purchaser, at its discretion, may consider appropriate, will be announced aloud at the opening of the proposal. No bid shall be rejected at bid opening time, except for late bids, which shall be returned unopened to the bidder pursuant to Clause 21.
		23.3	The financial bids found without Bid Security (earnest money) OR having less Bid Security (earnest money) will also be returned unannounced to the bidders even if they are qualified in the evaluation of their technical

		proposal.
		However, prior to return to the bidder, the chairman of the Purchase Committee will record written statement / reason on such bids.
24	Clarification of Bids	23.4 The Purchaser will prepare necessary technical evaluation report.
		24.1 During evaluation of the bids, the Purchaser may, at its discretion, ask the bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted.
25	Preliminary Examination	25.1 The Purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
		25.2 Except those mentioned at clause 18.4, the arithmetical errors in the financial bids will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the <u>UNIT PRICE</u> shall prevail, and the total price shall be corrected. If the bidder/supplier does not accept the correction of the errors, its bid will be rejected, and its bid security may be forfeited. If there is a discrepancy between words and figures, the amount in <u>WORDS</u> will prevail.
		25.3 The Purchaser may waive any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any bidder, except anything rendering the bid unconditionally invalid under any other clause of these bidding documents / terms & conditions.
		25.4 Prior to the detailed evaluation, pursuant to ITP Clause 26 the Purchaser will determine the substantial responsiveness of each bid to the bidding documents. For purposes of this Clause, a substantially responsive bid is one, which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from, or objections or reservations critical provisions, such as those concerning Applicable Law, Taxes & Duties and GMP practices, Bid Security for the proposals. The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
		25.5 If a technical bid is not substantially responsive, it will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the nonconformity.
26	Evaluation & Comparison of Bids	26.1 The Purchaser will evaluate and compare the bids, which have been determined to be substantially responsive, pursuant to ITB Clause 25.
		26.2 The evaluation of the financial proposal will be on the basis of price inclusive of prevailing taxes and duties in pursuant to ITB Clause 12 and bid security. However, previous performances, test reports, inspection of plant / factory/ premises, previous experience and report, financial soundness and any other details as the Purchaser, at its discretion, may consider appropriate, will be considered during technical evaluation before financial opening.
		26.3 All bids shall be evaluated in accordance with the evaluation criteria (ITB Clause 27) and other terms and conditions set forth in these bidding documents.
		26.4 A bid once opened in accordance with the prescribed procedure shall be subject to only those rules, regulations and policies that are in force at the time of issue of notice for invitation of bids.
27	Evaluation Criteria	27.1 Facts such as previous performances and record, inspection of plant/factory/premises, previous experience, financial soundness and such other details as the Purchaser, at its discretion, may consider appropriate will be taken into consideration during evaluation of technical bids. Financial bid of only those firms will be opened which are considered technically qualified by the purchaser in writing.
28	Contacting the	28.1 Any effort by a bidder to influence the Purchaser in its decisions on bid evaluation, bid

	Purchaser		comparison, or contract award may result in the rejection of the bidder's bid.
			Canvassing by any bidder at any stage of the tender evaluation is strictly prohibited. Any infringement will lead to disqualification.
29	Qualification & disqualification of Bidders	29.1	The Purchaser will determine to its satisfaction whether the bidders are qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITB Clause 14.3.
		29.2	The determination will take into account the bidder's financial, technical, production, transportation and other necessary capabilities. It will be based upon an examination of the documentary evidence of the bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 14.3, as well as such other information as the Purchaser deems necessary and appropriate.
		29.3	Further, during the process of selection of supplier, Technical Committee of the Islamabad Police with due diligence inspect the manufacturing plant/production capacity/warehousing system/GMP practices by a team of experts for assessment if deems necessary.
		29.4	An affirmative determination of technical bid will be a prerequisite for financial opening of bids and subsequent award of the contract to the lowest bidder. A negative determination will result in rejection of the bidder's technical bid and exclusion from opening of financial bid process.
		29.5	The Purchaser, at any stage of the procurement proceedings, having credible reasons for or prima facie evidence of any defect / deficiency in supplier's capacities, may require the suppliers to provide information concerning their professional, technical, financial, legal or managerial competence whether already qualified during technical evaluation process or not:
		29.6	The Purchaser will disqualify a bidder if it finds, at any time, that the information submitted by him concerning his qualification as supplier was false and materially inaccurate or incomplete.
30	Rejection of Bids	30.1	The Purchaser may reject any or all bids at any time prior to the acceptance of a bid. The Purchaser will upon request communicate to any bidder who submitted a bid, the grounds for its rejection of any or all bids, but is not required to justify those grounds.
		30.2	The Purchaser incurs no liability, solely by virtue of its invoking Clause 30.1 towards bidders who have submitted bids.
		30.3	All bidders are encouraged to remain in contact with the Purchaser to obtain the results of bid evaluation, acceptance or rejection of bids. Intimation of the rejection of any or all bids will be given promptly to the concerned bidders that submitted bids.
31	Re-Bidding	31.1	If the Purchaser rejected all bids in pursuant to ITB Clause 30, it may call for a re-bidding or if deems necessary appropriate the Purchaser may seek any alternative methods of procurement under Rule 42 of the Public Procurement Rules-2004.
		31.2	The purchaser before invitation for re-bidding will assess the reasons for rejection and may revise specifications, evaluation criteria or any other condition for bidders, as it may deem necessary.
32	Results of Evaluation Report	32.1	All bidders are encouraged to remain in contact with the Purchaser to obtain the results of bid evaluation, acceptance or rejection of bids.

AWARD OF CONTRACT

33	Acceptance of Bid and Award criteria	33.1	Subject to ITB Clause 31, the bidder with the lowest evaluated bid, if not in conflict with any other law, rules, regulations or policy of the Federal Government, will be awarded the contract, within the original or extended period of bid validity.
34	Purchaser's right to vary	34.1	The Purchaser reserves the right at the time of contract award to increase or decrease, the quantity of items originally specified in the Price schedule and

35	quantities at time of award Limitations on negotiations	35.1	<p>Schedule of Requirements without any change in unit price or other terms and conditions. All participating bidders unconditionally agree to the said clause.</p> <p>Negotiations may not relate to the price or substance of tenders or unit rates (i.e price) specified by the bidder in his tender, but only to technical, contractual or logistical details. As guidance only, negotiations may normally relate to the following areas:</p> <ul style="list-style-type: none"> • Minor alterations to technical details, such as the terms of reference, the scope of work, or drawings; • Minor amendments to the special conditions of contract; • Agreeing final delivery or completion schedules to accommodate any changes required by the purchaser; • The proposed methodology or staffing; • Input required from the purchaser; • Clarifying details that were not apparent or could not be finalized at the time of bidding; • The bidder's tax liability in Pakistan, if the bidder is a foreign company. <p>Negotiations will not be used to:</p> <ul style="list-style-type: none"> • Substantially change the technical quality or details of the requirement, including the tasks or responsibilities of the bidder or the performance of the goods; • Substantially alter the terms and conditions of contract; • Substantially alter anything which formed a crucial or deciding factor in the evaluation of the tenders or proposals. • Rates / Prices offered by the bidder
36	Notification of Award	36.1	<p>Prior to the expiration of the period of bid validity, the Purchaser will notify the successful bidder, to be confirmed in writing by registered letter, that its bid has been accepted.</p>
37	Signing of Contract	36.2	<p>The notification of award will constitute the formation of the Contract.</p>
		37.1	<p>The Purchaser will invite the bidder to sign the same Contract form provided in the bidding documents along with updated information about price etc., incorporating all agreements between the parties the same time as the Purchaser notifies the successful bidder that its bid has been accepted.</p>
		37.2	<p>The contract will be signed on the legal stamp paper to be arranged by the supplier. The Purchaser will issue Purchaser Order on the same date of signing of contract. If the successful bidder, after completion of all codel formalities shows inability to sign the Contract then their complete bid security/earnest money will be forfeited and the firm will be unconditionally blacklisted for future participation. In such situation the Purchaser may make the award to the next lowest evaluated bidder or may call for new bids at its own discretion.</p>
38	Performance Guarantee/ Security	38.1	<p>The successful bidder shall furnish the performance guaranty/security 10% of contract amount before signing the contract and award of supply order in shape of pay order/ security. The bid security would be returned to the bidder upon submission of performance guaranty.</p>
		38.2	<p>Failure of the successful Bidder to comply with the requirement of ITB Clause 37 or ITB Clause 38.1 shall constitute sufficient grounds for the annulment of the</p>

award and forfeiture of the security, in which event the Purchaser may make the award to the next lowest evaluated Bidder or call for new bids at its own discretion.

39 **Corrupt or Fraudulent Practices**

39.1 The Purchaser requires that the Procuring Agency as well as Bidders/Suppliers/Contractors observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Purchasers:

(a) defines, for the purposes of this provision, the terms set forth below as follows:

(i) **“corrupt practice”** means the offering, giving, receiving or soliciting of anything or value to influence the action of a public official in the procurement process or in contract execution; and

(ii) **“fraudulent practice”** means a misrepresentation of facts in order to influence a procurement process of the-execution of a contract to the detriment of the Purchaser and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition;

(b) Will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

(c) Will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a contract.

A. GENERAL CONDITIONS OF CONTRACT (GCC)

1 **Definitions**

1.1 In this Contract, the following terms shall be interpreted as indicated:

(a) **“The Contract”** means the agreement entered into between the Purchaser and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

(b) **“The Contract Price”** means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.

(c) **“The Goods”** means items which the Supplier is required to supply to the Purchaser under the Contract.

(d) **“The Services”** means those services ancillary to the supply of above items, such as packing and transportation of goods upto the desired destinations and other such obligations of the Supplier covered under the contract.

(e) **“GCC”** means the General Conditions of Contract contained in this section.

(f) **“SCC”** means the Special Conditions of Contract.

- (g) **“The Purchaser”** means the Islamabad Capital Territory Police.
- (h) **“The Purchaser’s country”** is the country named in SCC
- (i) **“The Supplier”** means the individual or firm supplying the items and services under this Contract.

(j) **“Day”** means calendar day.

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| 2 | Application | 2.1 | These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract. However, Special Conditions of Contract shall supersede any General Conditions, if in conflict. |
| 3 | Country of Origin | 3.1 | All goods and related services to be supplied under the contract shall have their origin in Pakistan or abroad and all expenditures made under the contract will be limited to such goods and services. |
| | | 3.2 | For purposes of this clause, “Origin” means the place where the goods are produced, or the place from which the related services are supplied. Goods are produced when, through manufacturing or processing. |
| 4 | Standards | 4.1 | The goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications. |
| 5 | Use of Contract Documents and Information. | 5.1 | The Supplier shall not, without the Purchaser’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 Purchaser in connection therewith, to any person other than 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. |
| | | 5.2 | The Supplier shall not without the Purchaser’s prior written consent, make use of any document or information enumerated in GCC Clause 5.1 except for purposes of performing the Contract. |
| | | 5.3 | Any document, other than the contract itself, enumerated in GCC Clause 5.1 shall remain the property of the Purchaser and shall be returned (all copies) to the Purchaser on completion of the Supplier’s performance under the Contract if so required by the Purchaser. |
| | | 5.4 | The Supplier shall permit the Purchaser to inspect the Supplier’s accounts and records relating to the performance of the supplier. |
| 6 | Patent Rights | 6.1 | The supplier shall indemnify the purchaser against all third-party claims to infringement of patent, trademark, or industrial design rights arising from use of the goods or any part thereof in the country. |
| 7 | Collection of Samples | 7.1 | Samples of all goods are mandatorily / compulsorily required on the date and time of tender submission. |
| 8 | Ensuring storage arrangements | 8.1 | To ensure storage arrangements for the intended supplies, the supplier shall inform the purchaser in advance. However, in case no space is available at the warehouse / store of purchaser at the time of supply, the Purchaser will inform the supplier in writing the possible time frame of availability of space by which the supplies can be made. In case the supplier abides by the given time frame he will not be penalized for delay. |
| 9 | Inspections and Tests | 9.1 | The Purchaser or its representative shall have the right to inspect and/or to test the items to confirm their conformity to the Contract specification at no extra cost to the Purchaser. |
| | | 9.2 | For the purpose of inspection, the supplier shall inform the Purchaser at least one (1) week in advance when goods are manufactured/available for inspection. If any item is declared of sub-standard quality, the purchaser will allow retesting depending on the merits of individual |

- case.
- 9.3 The Purchaser has right to inspection of supplies and to reject the items at purchaser's premises.
- 9.4 Nothing in GCC Clause 9 shall in any way release the Supplier from any warranty or other obligations under this Contract.
- 10 **Laboratory tests (if applicable)**
- 10.1 All goods and items will be acceptable subject to physical examination. The Inspection Committee of Islamabad Capital Territory Police will carry out the physical examination after shipment of the goods.
- 10.2 If any item is found to be substandard against the required specifications, the purchaser may reject the goods, and the supplier shall replace the rejected goods or arrange alterations necessary to meet the required specifications free of cost. Replacement of the rejected supplies must be completed within 30 days from the date of communication of decision to the manufacture/ supplier by the purchaser. However, the initial delivery date of the concerned installment will be considered that of actual delivery date. This opportunity will be provided only once. In case after re-examination or replacement of supplies, if it is found again sub-standard quality, action will be taken against the supplier besides other punitive action under the tender/supply order.
- 10.3 **All laboratory tests shall be done at the Supplier's risk and cost.**
- 11 **Delivery and Documents**
- 11.1 The Supplier in accordance with the terms specified in the Schedule of Requirements shall make delivery of the goods. The details of documents to be furnished by the Supplier are specified in SCC.
- 12 **Insurance**
- 12.1 The items supplied under the Contract shall be delivered duty paid (DDP) under which risk is transferred to the buyer after having been delivered: hence insurance coverage is seller's responsibility.
- 13 **Transportation**
- 13.1 The Supplier shall arrange such transportation of the goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Schedule of Requirement.
- 13.2 The items will be delivered to Purchaser's place as per schedule of requirement on the risk and cost of the supplier. All Zila, Octroi, duties and other provincial taxes will be borne by the supplier. Transportation including loading/unloading of vehicles shall be arranged and paid for by the supplier, and related cost shall be inclusive in the contract price. The addresses of destinations/offices will be given in the purchase order.
- 14 **Incidental Services**
- 14.1 The Supplier will be required to provide the incidental services as specified in SCC and the cost of which should include in the total bid price.
- 15 **Warranty**
- 15.1 The goods shall be accompanied by the necessary warrantee/guarantee by the supplier as prescribed by the original manufacturers.
- 15.2 The Purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.
- 15.3 Upon receipt of such notice, the supplier shall, within the period specified in SCC and with all reasonable speed, alter or replace the defective items thereof, without costs to the Purchaser.
- 15.4 If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, within a reasonable period, the Purchaser 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 purchaser may have against the Supplier under the Contract.
- 16 **Payment**
- 16.1 The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.
- 16.2 **The currency of payment is Pakistani Rupees ONLY.**
- 17 **Prices**
- 17.1 Prices charged by the supplier for items delivered under the Contract shall not vary from the prices quoted by the Supplier in its bid and shall remain the same till expiry of the original bid validity period provided

		the Purchaser's request for bid validity extension. No change in price is allowed except ITB clause 12.6.
18	Contract Amendments	18.1 No variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.
19	Assignment	19.1 The Supplier shall not assign, in whole or in part, its obligations to perform under this contract, except with the Purchaser's prior written consent.
20	Subcontracts	20.1 The supplier can sublet the job for civil works etc.
21	Delays in the supplier's Performance	21.1 Delivery of the items shall be made by the supplier in accordance with the time schedule prescribed by the Purchaser in the Schedule of Requirements. 21.2 If at any time during performance of the contract, the supplier should encounter conditions impeding timely delivery of the items, the supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the Purchaser shall evaluate the situation and may at its discretion extend to supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of contract. 21.3 Except as provided under GCC Clause 23, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of liquidated damages pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of liquidated damages.
22	Penalties/liquidated Damages	22.1 In case of late delivery beyond the presented period, penalty as specified below will be imposed upon the Supplier/manufacturer. Damages will be charged @25% <ul style="list-style-type: none"> • 30 days 7% • 45 days 8% • 60 days 10% <p>The above Late Delivery (LD) is subject to GCC Clause 24, including late delivery for reasons beyond control. Once the maximum is reached, the Purchaser may consider termination of the contract pursuant to GCC Clause 23.</p>
23	Termination for Default	23.1 The Purchaser, 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: <ol style="list-style-type: none"> (a) If the Supplier fails to deliver any or all of the items within the period(s) specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 21; or (b) If the Supplier fails to perform any other obligation(s) under the contract. (c) If the supplier, in the judgment of purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

For the purpose of this clause:

“**Corrupt practice**” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

“**fraudulent practice**” means a misrepresentation of facts in

		order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the purchaser of the benefits of free and open competition.
24	Force Majeure	24.1 Notwithstanding the provisions of GCC Clauses 21, 22 and 23, the Supplier shall not be liable for forfeiture of its performance guaranty/bid security, or termination/ blacklisting 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 event of Force Majeure. For the purposes of this clause Force Majeure means “An act of God or an event beyond the control of the supplier and not involving the suppliers fault or negligence directly or indirectly purporting to misplanning, mismanagement and/or lack of foresight to handle the situation”. Such event may include but are not restricted to acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, earthquakes, epidemics, quarantine restrictions, road blocks / jams, strikes and freight embargoes. If a Force Majeure situation arises, the supplier shall promptly notify the purchaser in writing with sufficient and valid evidence of such condition and the cause thereof. Technical Committee nominated by Purchaser will examine the pros and cons of the case and all reasonable alternative means for completion of supply order under this contract and will submit its recommendations to the competent authority. However, unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical and shall seek reasonable alternative means for performance not prevented by the Force Majeure event.
25	Termination for Insolvency	25.1 The Purchaser may at any time terminate the Contract by giving written notice to the 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 effect any right of action or remedy which has accrued or will accrue thereafter to the Purchaser.
26	Arbitration and Resolution of Disputes	26.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract. 26.2 If, after thirty (30) days from the commencement of such informal negotiations, the Purchaser and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred to the Arbitrator for resolution through arbitration. 26.3 In case of any dispute concerning the interpretation and application of contract that shall be referred to the Arbitrary Committee which will be constituted by Islamabad Capital Territory Police. The decision of the committee will be final and binding on the parties.
27	Governing Language	27.1 The Contract shall be written in English language. Subject to GCC Clause 28, the version of the Contract written in the specified language shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in English.
28	Applicable Law	28.1 This Contract shall be governed by the laws of Pakistan and the courts of Pakistan shall have exclusive jurisdiction.
29	Notices	29.1 Any Notice given by one party to the other pursuant to this contract shall be sent to the other party in writing and confirmed to other party’s address specified in SCC. 29.2 A notice shall be effective when delivered or on the notice’s effective date, whichever is later.

INVITATION FOR BIDS
Financial Year 2022-23

(Supply, Installation, Commissioning of Solar Power Energy System – On Grid System with Net Metering)

Islamabad Capital Territory Police invites sealed bids from the original manufacturers/their authorized agents and suppliers in Pakistan registered with Income Tax/Sales Tax Department for Supply, Installation, Commissioning of Solar Power Energy System – On Grid System with Net Metering as per demand specified in Price Schedule:

TERMS & CONDITIONS

- (1) National Competitive Bidding (NCB) will be conducted in accordance with single stage two Envelop Bidding Procedure as per PPRA Rules 36(b).
- (2) Single stage two envelopes bidding procedure shall be applied. The bid shall comprise a single package containing two separate envelopes. Each bid shall contain separately the financial and technical proposal. All bids received shall be opened and evaluated in the manner prescribed in the bidding documents. The amount of bid security/earnest money in the shape of pay order/bank draft/call deposit in the name of Project Director is required to be deposited with the financial bid (2% of the total value of the bid).
- (3) The tender will be completed in two phases (technical & financial) to ensure credibility, transparency and procurement of quality goods. The first phase would be for technical evaluation / pre-qualification wherein profile of the company and specification of the goods would be examined in the light of terms & conditions as mentioned in bidding documents. **Firms will provide samples of goods at the time of opening of bids.** Goods will be subjected to tests by Technical Committee of the Islamabad Capital Territory Police. The bidder will bear all the charges of laboratory testing. It would help for selection of technically qualified / pre-qualified firms, suppliers, manufacturers and in the second phase financial bids of technically qualified / pre-qualified firms will be opened in front of all bidders (who choose to attend the process).
- (4) Interested eligible bidders may obtain “free of cost” complete set of bidding documents containing terms and conditions, from IT Division, IPITB, Police Lines, H-11, Islamabad on submission of a written application on firm’s letter head.
- (5) Original bidding documents will be issued from date of advertisement in newspapers to _____ during office hours. However, a copy of the advertisement is available for information only on the website of Public Procurement Regulatory Authority (www.ppra.org.pk) and website of Islamabad Capital Territory Police (www.islamabadpolice.gov.pk).
- (6) Interested bidders are required to submit sealed bids (in duplicate) by hand, on _____ **by 11:00 a.m.** positively in Police Lines Headquarters, H-11, Islamabad. The bids received till the stipulated date/time will be opened on the same day at **11.30 a.m.** in presence of the bidders/their authorized representatives who choose to attend. Non-provision of samples at the time of bid opening will result in rejection of bid.
- (7) On award of contract **10% Performance Guarantee** would be deposited before signing the contract with the Islamabad Capital Territory Police in the name of Project Director, CMU which will be forfeited on non delivery of store etc. within stipulated period.
- (8) Pre-shipment inspection may be carried out at the risk & cost of supplier. Consignment may be sealed by the Inspection Committee of Islamabad Capital Territory Police.
- (9) The bidders are requested to give their best and final prices (in Pak Rupees only) as no negotiations on the prices are allowed. The purchaser reserves the right to accept or reject any or all bids without assigning any reason.

Following guidelines must be noted:

- Both Technical and Financial Bids must be submitted in separate sealed envelopes, two inner envelopes and one outer envelope; marking the inner envelopes “1-Technical Bids, 2-Financial Bids”.
- Technical Bids will be opened in the presence of bidders / bidders’ representative who choose to attend. Financial bids shall be sealed for opening after completion of technical evaluation.
- Conditional, incomplete, unsigned and bid filled with lead pencil / pen, will not be accepted at all. Only computer typed / printed bids are acceptable.
- Usage of correction fluid & corrections are strictly prohibited. In case of any such discrepancies in financial bid, the same will be unconditionally rejected.
- Any bid without bid security or less bid security than required will be unconditionally rejected.
- Detail terms and conditions are mentioned in the Tender Document.
- Potential Bidders may propose the charges any other compulsory items separately.
- Interested bidders may visit both sites H-11 building & F-6 service centers in office hours before submitting the proposal.

**Project Director,
CMU, Islamabad**

Supply, Installation, Commissioning of Solar Power Energy System – On Grid System with Net Metering

To install a Solar Power Energy System of 145 KWP for H-11 Facilitation Centre & 50 KWP for F-6 Facilitation Centre, On-Grid System with Net-Metering, on Turn-key basis, including warranty at its premises.

The Bidder must have a minimum three (03) years of verifiable work experience at national/international level, in provision of solar based solutions.

- i. The Bidder must provide verifiable documentary proof of already completed projects of similar nature as part of technical proposal.
- ii. The Bidder shall submit its audited financial statement and bank statement for the last two years. The submitted audited statement and bank statement shall be evaluated to gauge the financial strength of the company/firm/consortium to take up the assignment for execution.

a) General Guidelines:

Sr. No.	Item/Feature	Specification
1	Total PV Capacity	145KWP for H-11 Facilitation Centre
2	Total PV Capacity	50KWP for F-6 Facilitation Centre
2	Total Inverter Capacity	145KW for H-11 50 KW For F-6
3	Net metering	All dealings, licensing and payments regarding issuance of net metering license shall be bidder's responsibility including change of energy meter, IESCO/Other department NOCs etc.
4	Transportation	Bidder's responsibility
5	Labor, equipment delivery	All labor and project execution equipment shall be provided by bidder
6	Delivery of Equipment	10 weeks after the issuance of Contract/PO
7	Completion timeline	Installation within 6-8 week after the issuance of Contract/PO, net metering file to be submitted within one week after completion.
8	Payment Terms	<ul style="list-style-type: none"> ● 50 % after delivery of complete material on site ● 25% after successful commissioning of project ● 15% after one month of successful operation ● 10 % shall be released after two electricity billing cycles and active net metering is

		reflected in the bills and upon issuance of satisfaction note / project completion certificate by the technical committee.
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The Technical Proposal shall include:

- a. A covering letter from the head of the firm/company/consortium or an authorized representative of the same covering the key features of the technical solution.
- b. Copy of registration certificates with relevant authorities i.e. incorporation certificate from SECP, Registrar of Firms etc.
- c. Brief description of the company / firm / consortium partners, highlighting major areas of expertise of the company / firm / consortium partners
- d. Outline of work experience with references of work on similar projects, providing name of the client, client contact information, project value, successful completion certificate for each of the projects which are representative of firm's projects similar to the current project
- e. Complete set of technical information, description data, literature and drawings as required in accordance with Annex-IV. This will include but not be limited to the following:
 - i. A sufficient number of drawings, installation layout, catalogues, illustrations and such other information as are necessary to illustrate clearly the significant characteristics such as general construction dimensions and other relevant information about the Goods/Services to be provided.
 - ii. Details of equipment with capacity.
 - iii. Any other information which is required for evaluation purposes.
 - iv. Financial Saving Projections for 03 years from installed solar system.
 - v. Projected Energy output (kWh/day, kWh/month & kWh/year) from installed system.
 - vi. Solar Energy potential at the location of panel installation via 3rd party renowned sources.
 - vii. European, USA, Canadian, Chinese brands or equivalent are accepted for Panels and controller

f. The following documents may be furnished along with the technical bid

Sr. #	Item/Feature	Specification
1	Experience/Firm Eligibility	Must be in solar business for at least 03 years.(international or national documented evidence).
2	PEC Category	C2 or higher with relevant field of specialization is the mandatory requirement for the participating bidders
3	AEDB	C1 valid license proof of already installed net meters
4	History of work with Government	Must have successfully completed at least one solar project of over 100 KW of similar nature for any

		Government / private organization in Pakistan. (evidence to be provided in the Technical Proposal) Must have completed at least 100 KW of Solar projects in Pakistan. (evidence to be provided in the Technical Proposal).
5	Affidavit	Affidavit confirming that the firm has been not been blacklisted by any Government organization or corporate entity. A list of current cases in litigation (if any) must also be provided
6	NTN, STRN	NTN and sales tax certificate, as well as ATL status.
7	Distributor License	Letter of Authorized Distributor in Pakistan Must have affiliation Certificates from the Solar Panels and Inverters manufacturers.
8	Warranty of System	An affidavit claiming the warranty period of equipment and of total system. (explicitly mention the warranty period of solar modules, inverter and total system by bidder).
9	Professional Staff	Proof of PEC registered engineers employed. Details of other technical staff.
10	After Sales Support	Affidavit for after sales local support in the installation city. Must have regional Office in the same city of Project
11	Financial Strength	Annual turnover of more than 100 Million, provide audited reports/bank statements, and tax returns
12	Import Documents	Bill of entry of equipment/Undertaking stating that the items have been solely imported by the bidder himself.

5.2 Financial Proposals:

The Bidder shall submit Financial Proposals in **separate sealed envelope on the prescribed format (Annex-___)**. Envelop shall be clearly marked with the following:

“Supply, Installation, Commissioning of Solar Power Energy System – On Grid System with Net Metering”

“FINANCIAL PROPOSAL”

“Do Not Open with the Technical Proposal”

The Financial Proposal shall include:

- a. The proposal must remain valid for a period of 90 days after the submission date.
- b. The price offered by bidder shall be inclusive of inland transportation to designated sites, installation, testing, commissioning and training of staff, etc.

1. Evaluation and Comparison of Bids:

Preliminary technical evaluation will be conducted to determine compliance to the following criteria. In case of non-compliance with any of these criteria, the technical bid will be rejected.

Sr. #	DESCRIPTION	YES/NO
1	Firm must have registered with PEC in relevant category, with specialized codes covering provision of Solar Energy solutions.	Must have valid certificate for further evaluation.
2	Firm must be registered with SECP or Registrar of Firms	Mandatory to apply
3	Black Listing from any Government/Semi Government/Agency/Department	Mandatory to provide Affidavit as outlined in Tender document.
4	System Design	Valid system design must be submitted along with technical bid.
5	<ul style="list-style-type: none">● Warranty period for solar panels must be 20 years and for allied equipment 5 years.● Good declaration bill of entry should be provided certificate origin of goods.● Performance curve STC for both PV and pumping set must be provided.● PV module that should be offered must not be more than 1 year old.	Attached all valid Documents
6	Brand names, certificate of distribution must be provided in technical proposal.	Attached all valid Documents
7	Test Bed verification.	<ul style="list-style-type: none">● Must be provided in Technical proposal

The Technical Bids will be evaluated on the basis of evaluation criteria given below. Financial Bids of only those firms will be opened, who at least secured 80% marks in their Technical Bids.

Evaluation Criteria		
Sr. #	Description	Weight
1	Specific relevant experience of company/firm/consortium on similar assignments will secure following marks on successfully completion:- Projects of Rs. 50 (million) = 03 Projects of Rs. 100 (million) = 06 03 projects of 50 KW = 06 Scope of work = 10 (Each project will earn 02 marks)	25
2	Quality of work after installation support. Bidders must provide list of 03 customers's where projects of 50 KW have been delivered along with certificate of satisfactory services provision. (Each service installation will earn 5 marks)	15
3	Proposed Team along with CVs with relevant qualification & Experience for each of the applying lot <ul style="list-style-type: none"> ● 1 Professional Engineer with B.Sc. / BE (10 marks for engineer with 10 years or above experience) ● 1 Associate Engineer with DAE (5 marks for engineer with 10 years or above experience) 	15
4.	Workshop facilities/Labs If present = 15 If others = 10 Details of equipment, layout etc must be provided in the Technical proposal	15
5.	Testing Reports (Any certified facility)	15
6.	Project completion and after sales support plan for 03 projects of 50 KW or above.	15
Total Marks		100
Minimum Score Required to Qualify		80

Annex-I: FORMAT FOR FINANCIAL PROPOSAL

a. Summary of Bid Price

Item No.	Description	Total lump-sum Bid Price (in words and figures)
1	Supply, Installation / Commissioning of Solar Power Energy System, 145 KWP, On-Grid System with Net-Metering (Based on Turn-key basis, with 20 years warranty for solar panels and 05 years warranty period for allied equipment.	
2	Supply, Installation / Commissioning of Solar Power Energy System, 50 KWP, On-Grid System with Net-Metering (Based on Turn-key basis, with 20 years	

	warranty for solar panels and 05 years warranty period for allied equipment.	
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(Note: Total price, in Pak Rupees, shall be provided in figures as well as in words)

b. Schedule of Prices-Unit Prices:

Item No.	Description	Unit	Qty	Unit Rate	Total Price
I	Supply, Installation / Commissioning of Solar Power Energy System, 145 KW & 50 KW, On-Grid System with Net-Metering (Based on Turn-key basis, with 20 years warranty for solar panels and 05 years warranty period for allied equipment, comprising following essential equipment: a) Solar PV Modules b) Grid Inverter c) Mounting Structure & Civil works Wiring & Protection Equipment etc.(AC, DC, earthing, lightning protection and surge arresters) d) Installation & Commissioning e) Net Metering				
II	Optional equipment: a) Real Time Monitoring of Solar System b) Solution for Cleaning of Solar System				
III	Annual Operation & Maintenance Cost				

Annex-II: BILL OF QUANTITIES

The technical proposals must provide the following details at a minimum.

BOQ

Sr. #	Description of Items	Capacity	Unit	Quantity
1	PV modules, Minimum Capacity, not less than 400Wp = 10%	Kw		
2	Grid Tied Inverter, KW	Kw		
Allied Material (there could be ±10% variations, bidders are requested to VISIT the site for exact				

measurements)				
3	PV Mounting Structures, with complete fixing equipment.	-	Lot	1
4	PV -Cable 1C x 6sq mm, CU/PVC/FLEX	-	Mtr	
5	Depends on inverters	-	Mtr	
6	Earthing-Cable 1C x 4 Sqmm, CU/PVC/FLEX (Green)	-	Mtr	
7	Cable Tray, 100 x 50 mm with 4 inch stand	-	Mtr	
8	DC Fuse Box with Surge Protection & PV string isolated fuses 1000 V DC for String Protection, Lightening Protection			
9	MCB 4P Between AC LT side and inverter	-	Nos	1
10	Installation Material	-	Lot	1
Installation, Testing & Commissioning				
11	Installation, Testing & Commissioning of Solar System, Services	-	Job	1
12	<p><u>Real Time Monitoring of Solar System (optional):</u> The system must be capable of showing real time data of power produced from solar system and store it on local hard drive for future analysis. The output parameters shall be displayed on a LCD screen(32") separately as well. PC required with min core I-7, 2TB HDD, 16GB RAM with 21" inches LCD Screen</p>		Nos	1

Note: Design and installation layout of system to be submitted along with this BOQ

Annex-III: PROJECT INFORMATION

Summary and details of project completed during past three years to be provided in the technical proposal.

S. #	Purchase Order or Contract Details	Client Details	Contract		
			Award Year	Amount	Duration
1					
2					
3					
4					
5					

Annex-IV: TECHNICAL SPECIFICATIONS

General System Description:

The system shall be designed and sized as per the site requirements and shall consist of mainly the following :

- I. Solar Photovoltaic panels
- II. Grid Tied Inverters
- III. PV mounting Structure
- IV. Frame and civil structure
- V. Cables and other accessories
- VI. Protection Systems
- VII. Surge Arrestors
- VIII. Lighting Protection System
- IX. Net Metering

I. Solar Photovoltaic Panels:

Parameters	Min. Specifications required
Module Make	Tier 1, Brand should be verifiable
PV Module Type	Mono-Perc (>400 Watts)
Cell Quality	A Grade (verifiable) Flash Test Report Required
Module Efficiency	≥19% or higher
Power Tolerance	Must be 0.5W or more
Operating Temperature	--40°C to +85 °C
Temperature Coefficient (Pmax)	--0.4% / o C or less
Bus Bar	5 or higher
Certification	IEC 61215, IEC 61730, IEC61701 or equivalent
Frame	Must Withstand 5400 PA impulse Load
Junction Box	IP 6, 66 , 68 with bypass Diode
Cable	Min. 4 mm ² (IEC),
Connectors	MC4 or compatible weatherproof
Front Cover	3.2 mm prism type tempered glass or higher
Product Warranty	Energy of lot/import (at the time of execution) should be verified local Labs
No Auto tilt	Yes

I. Grid Tied Inverter:

Parameters	Minimum Required Specifications
Inverter Make	Brand should be verifiable (EU/USA/China origin), Qualifying the given international standards
Inverter Type	Grid/Genset synchronized Pure Sine wave.

Inverter Size (KW)	50 KW&145KW or as per site requirement
Grid/ Generator Synchronization	On grid inverters are only synchronize with grid when grid supply are off, solar system shut down itself
Output Voltage Range	230VAC/400 VAC \pm 5%.
Solar Panel to Inverter Ratio	1:1
IP Rating/ Dust Proofing	Preferred IP 65 (IEC 60529)/ outdoor use
Frequency	50Hz \pm 2%
Standby power consumption	3 \leq Watt.
Max. efficiency/Euro-eta	97.8% / 96.5% or above
Protections	<ul style="list-style-type: none"> ● Short Circuiting ● Surge Protection ● PV reverse polarity protection ● Anti-Islanding Protection ● Leakage current protection ● High Insulation <p>Input</p> <ul style="list-style-type: none"> ● Over voltage(PV) (if built-in) ● Harmonics Filter <p>Output</p> <ul style="list-style-type: none"> ● Over voltage (AC)
Operating Temperature	0 to 50oC
Humidity	10 ~90%RH
THD	\leq 3%
Performance guarantee	5 years Replacement of inverter, 10 years equipment life guarantee
Termination Required	At LT Side
Input Voltage Range	150 to 800V or above, as per design (depend upon the selected design)
Mx Input Voltage Range	1000 V dc
Power Factor	0.8 leading/lagging
Communication	RS 485/ RJ45 or Wifi (preferably RJ 45)
Display	Screen for parameters display
Applicable Standards and Compliances	UL1741, UL1699B, UL1998, IEEE1547, CSA C22.2 #107.1-01, FCC Class A, ANRE 30, AS 4777, BDEW 2008, C10/11:2012, CE, CEI 0-16, CEI O-21, EN 50438:2013*, G59/3, IEC 60068-2-x, IEC 61727,IEC 62109-1/2, IEC 62116,MEA 2013,NBR 16149,NEN EN 50438,NRS 097-2-1, PEA 2013, PPC, RD 1699/413, RD 661/2007,

	Res. N° 7:2013, S14777, TOR D4, TR 3.2.2, UTE C15-712-1, VDE 0126-1-1, VDE-AR-N 4105, VFR 2014 Or equaling with supporting documents
Installation of Inverters	At suitable available place, as per the instruction of the Engineer in-charge.
Fault Detection	Remote fault detection supported
Data Analysis	Remote Data collection supported, Online data access through portal
Parameters Modification	Remote parameter modifications supported
Mobile Applications	Application for android and IOS

II. PV Mounting Structure:

Should specify structure design before evaluation of tender by conducting pre survey of available space.

Proper mounting needs to be designed according to the installation area. All proposed structures should comply with the standards and requirements below.

Description	Requirements
Structure Material	Mild steel / Aluminum or material more than 15 years of proven life. Nuts & bolts should of SS
Wind Loading	Must provide SAP report and stability certificate from structure engineer before time of execution Mounting system should be able to allow air circulation for cooling in high temperature and withstand wind speed of 150 Km/hour at 3 secgust
Angle adjustment mounting structure	Angle adjustment should be in accordance to specifications for Islamabad. Manual Seasonal adjustments options should be available on flat roofs structures
Material surface protection	Mounting structure should be Galvanized not less than 90 microns (Hot dip Steel). (or follow Applicable Standards)
Civil Work	Ground slope should be maintained properly to allow access water drainage. The Civil Design should comply with the ACI Code/ IBC Codes. All the required civil work must be included. SAP analysis report of civil work should be submitted

III. Cabling:

- a. All exposed wiring (with the possible exception of the module interconnects) must be covered in conduits/duct. Wiring through roofing, walls and other structures must be

- b. protected through the use of bushings. Wiring through roofing must form a waterproof seal (applicable for wiring only).
- c. For conduit and duct flexible PVC material with suitable size must be used, so that 1/2 spaces in a conduit should be empty.
- d. All wiring shall be color coded as per IEC standards and labeled at termination point.
- e. No conduit or fitting shall be attached directly to hatch or any other non-supportive surface
- f. Especially avoid installing the conduit direct over the roof; there must be distance not less than 2 inches between the roof surface and conduit/duct.
- g. Cables must be joined by the use of Junction boxes, screw-connectors, and block connectors, MC4 or equaling connectors must be used for PV joints.
- h. All wires must be terminated with proper end sleeves and wire thimbles with different colors for positive and negative polarity.
- i. Calculation must support following or equaling standards
i .BS 7671:2008, IEE Wiring Regulations 17th Edition, IEC 60364:2001, IEC 62124 ed 1, sec 8.3
- j. Size, voltage grade and manufacturer name should be printed on every cable with brand name
- k. Wires (in-case of trenching should be buried under 2 feet and should be covered with conduit of suitable strength).
- l. Cable voltage drop specifications are as followed that must be verified through software simulation/ Calculations.

Item	Requirements
PV to JB and JB to inverter	Stranded and flexible 99.9 % pure copper fire resistive insulation (Stranded) All exposed cables must be UV resistive. Voltage drop (node to node) should not be more than 1%
Grid/LV, DB to Inverter	99.9 % pure copper fire resistive insulation (Stranded) Voltage drop (node to node) not be more than 1 %

IV. Protection Systems:

Required System Protection	Surge Arresters Lightening Protection DC over voltage protection Short circuit Protection Fuse/Breaker Protection. AC & DC disconnect
Protection Class	IP 66 or IP 67

V. Surge Arrestors:

Parameters	Min. Specifications Required
Discharge current (I max)	min. 20kA (8/20 u sec.)
Impulse current (I imp)	min. 25kA (10/350u sec.)
Response time	≤50 n sec
Leakage current	≤ 1m A
Dielectric strength	2000 V AC @ 1 minute
Protection Class	Class 2(Type2) minimum
Discharge voltage	1000 V DC or 1200 VDC (Line to earth) or above(matching the size of inverter)
Ingress Protection	Minimum IP20 (placed in IP 65 Box along with other protections)
Short circuit withstand capacity	min. 30kA
Presence	On all MPP inputs of inverters

VI. Lightning Protection:

Parameters	Min. Specifications Required
Recommended method for Calculation	Rolling sphere method to ensure total insulation from lightning strike.
Air termination rod material	99 % Copper
Air termination rod Length	As per design
Earthling Pit	1 Ohm or as per net metering standards 99 % Pure copper plate/ rod
Air termination rod diameter	As per design
Cable for structure	4 mm ² or higher, 99.99% pure copper (strip or single conductor)
Cable for interconnecting/Grounding metal structure	6 mm ² or higher, 99.99% pure copper
Insulated Spacer	As per design
Cable Bracket	As per design
Stand – Fang Fix System	As per design
Compliance	ICE 62305-3 (EN62305-3) IEC 62305-3 (EN 62305-3) DIN VDE 0151 and DIN 18014

VII. Net Metering:

- a. Bidder must submit the certificate of Installers Service Providers for Net Metering minimum up to 250 KW under Category ARE V2.
- b. Bidder should submit the work schedule to complete the entire project including the net metering work.
- c. Bidder should also provide undertaking for completion of the Net metering work as per the estimated time mentioned in his work schedule.

The following functionality is expected:

- a. Generation data must be logged and available for future access.
- b. Data from weather station must also be integrated with the PC.
- c. Generation data must be logged and secured off line with time tracks.
- d. Data from the inverter shall also be logged and displayed on the software or GUI.
- e. Alarms/alerts and timely notification of key performance indicators
- f. Daily, Monthly, quarterly, and yearly reporting of deviations from the expected output should be displayed.

VIII. Cleaning of Solar System (optional):

Supply, Installation, testing and commissioning of suitable system of lowest possible water Consumption, water pump (if proposed) of the best quality available with service pipe 1”dia with all accessories.

*****Thank You*****