

# Standard Bidding Document

**GH-2604-01 Serial # 1 (Purchase and Installation of 15 KW Hybrid Solar System Complete for NTU Karachi Campus)**

**(Goods)**

**National**

**Single Stage-Two Envelope**



*May 04, 2026*

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## INVITATION TO BIDS PROCUREMENT OF GOODS

1. The **NTU-KC (Registrar Office)** has reserved Funds for the procurement planned for FY **2025-26**. The **NTU-KC (Registrar Office)** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the "**GH-2604-01 Serial # 1 (Purchase and Installation of 15 KW Hybrid Solar System Complete for NTU Karachi Campus)**".
2. The **NTU-KC (Registrar Office)** invites E-bids from eligible Bidders for procurement of goods described in the bidding documents on **EPADS v2.0**.
3. **Single Stage-Two Envelope** will be used by adopting **Least Cost Based Selection (LCBS)** Technique for the subject procurement, in line with the Public Procurement Rules, 2004 and any Regulations, Regulatory Guides, Procurement Guidelines or Instructions issued by the Authority from time to time.
4. All Bids must be accompanied by a Bid Security amounting described in Bid Security Section in Bidding Document in the form of **Pay Order, Banker's Cheque, Bank Guarantee, Demand Draft**. Where **Bid Security** is not required by the **Procuring Agency**, Bidders are required to furnish **Bid Security Declaration** as specified in Bidding Document.
5. E-Bidding documents, containing detailed terms & conditions, specifications and requirements etc. are available on **e-Pak Acquisition and Disposal System (EPADS)** at <https://vendors.epads.gov.pk/>.
6. Bidder(s) are required to get themselves registered on **EPADS v2.0** on or before **Tuesday, May 19, 2026 02:00 PM**. E-bids will be opened using **EPADS v2.0** on the same day at **Tuesday, May 19, 2026 02:30 PM**. Manual submission of Bids shall not be entertained. Those vendors who have not yet registered on the new version of **EPADS v2.0**, may register themselves on <https://vendors.epads.gov.pk/>. A tutorial to explain the registration process is available at <https://www.youtube.com/watch?v=MNW6T38v7tc>
7. In terms of Rules 48 of Public Procurement Rules, 2004 Grievance Redressal Committee (GRC) is notified for the subject procurement and notification copy is available on the procuring agency's website and on Authority's website at ([www.ppra.org.pk](http://www.ppra.org.pk)).

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## Instructions to Bidders

## A. Introduction

### 1.Scope of Bids

1.1 The Procuring Agency (PA), as indicated in the **Bids Data Sheet (BDS)** invites Bids **through EPADS v2.0** for the provision of Goods for as specified in the BDS and **in Section V - Evaluation Criteria, Specifications & Schedule of Requirements**. The name, identification, and number of items/deliverables are provided in the **BDS**. The successful Bidders will be expected to provide the goods within the specified period and timeline(s) as stated in the **BDS**.

### 2. Source of Funds

2.1 Source of funds is referred in Clause-1 of Invitation for Bids.

### 3. Eligible Bidders

3.1 A Bidder may be natural person, company or firm or public or semi-public agency of Pakistan or any foreign country, or any combination of them with a formal existing agreement (on Judicial Papers) in the form of a joint venture, consortium, or association. In the case of a joint venture, consortium, or association, all members shall be jointly and severally liable for the execution of the Contract in accordance with the terms and conditions of the Contract. The joint venture, consortium, or association shall nominate a Lead Member as nominated in the BDS, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture, consortium, or association during the Bidding process, and in case of award of contract, during the execution of the contract.

3.2 Verifiable copy of the agreement that forms a joint venture, consortium or association shall be required to be submitted as part of the Bid.

3.3 The appointment of Lead Member in the joint venture, consortium, or association shall be confirmed by submission of a valid Power of Attorney to the Procuring Agency.

3.4 Any bid submitted by the joint venture, consortium or association shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated (or post qualified if required) with respect to its contribution only, and the responsibilities of each party shall not be substantially altered without prior written approval of the Procuring Agency and in line with

any instructions issued by the Authority.

*(The limit on the number of members of JV or Consortium or Association may be prescribed in BDS, in accordance with the guidelines issued by the PPRA).*

3.5 The invitation for Bids is open to all prospective suppliers, manufacturers, or authorized agents / dealers subject to any provisions of incorporation or licensing by the respective national incorporating agency or statutory body established for that particular trade or business. Procuring agencies shall specify the registration/licensing requirements for the foreign bidders keeping in view the requirement of that business.

3.6 A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest with one or more parties in this Bidding process, if they:

1. are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consulting services for the preparation of the design, specifications and other documents to be used for the procurement of the Goods to be purchased under this Invitation for Bids.
2. have controlling shareholders in common; or
3. receive or have received any direct or indirect subsidy from any of them; or
4. have the same legal representative for purposes of this Bid; or
5. have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bids of another Bidder, or influence the decisions of the Procuring Agency regarding this Bidding process; or
6. Submit more than one Bid in this Bidding process.

3.7 A Bidder may be ineligible if –

1. he is declared bankrupt or, in the case of company or firm, insolvent;
2. payments in favor of the Bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial loss of the right to administer and dispose of its property;

3. the Bidder is convicted, by a final judgment, of any offence involving professional conduct;

4. the Bidder is blacklisted locally or by international organizations and hence debarred due to involvement in corrupt and fraudulent practices, or performance failure or due to breach of Bid securing declaration.

3.8 As and when required, bidders shall provide to the Procuring Agency evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.

3.9 Bidders shall submit Bids relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract amounting to more than ten (10) percent of the Bid price is envisaged.

## 4. Eligible Goods and Related Services

4.1 All goods and related services to be supplied under the contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to such goods and services. For purpose of this Bid, ineligible countries are the countries declared ineligible by the Federal Government.

## 5. One Bid per Bidder

5.1 A bidder shall submit only one Bid, in the same bidding process, either individually as a Bidder or as a member in a joint venture or any similar arrangement.

5.2 The Bidder shall not engage a subcontractor for any portion of the contract if the value of such subcontracting exceeds thirty percent (30%) of the total contract amount.

## 6. Cost of Bidding

6.1 Any cost incurred by the bidder relating to the preparation and submission of its Bid shall be borne by the bidder, and the Procuring Agency shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

## B. Bidding Documents

## 7. Contents of Bidding Document

7.1 The Goods required, Bidding procedures, and terms and conditions of the contract are prescribed in the Bidding Documents. In addition to the Invitation for Bids, the Bidding documents which should be read in conjunction with any addenda issued in accordance with **ITB 9.1** include:

**Section I** -Invitation to Bids

**Section II** Instructions to Bidders (ITB)

**Section III** Bid Data Sheet (BDS)

**Section IV** Evaluation Criteria, Specifications, Schedule of Requirements

**Section V** Bid Forms

**Section VI** General Conditions of Contract (GCC)

**Section VII** Special Conditions of Contract (SCC)

**Section VIII** Contract Forms

7.2 The Bidder is expected to examine all instructions, forms, terms and specifications in the Bidding documents. Failure to furnish all the information required in the Bidding documents through **EPADS v2.0** will be at the Bidder's risk and may result in the rejection of his Bids.

## 8. Clarification of Bidding documents

8.1 A prospective Bidder requiring any clarification of the Bidding documents may notify the Procuring Agency through **EPADS v2.0**.

8.2 The Procuring Agency will within three (3) working days after receiving the request for clarification, respond to any request for clarification through **EPADS v2.0** provided that such request is received not later than three (03) days prior to the deadline for the submission of Bids as prescribed in **ITB 22**

8.3 Copies of the Procuring Agency's response will be forwarded to all identified Prospective Bidders through **EPADS v2.0**, including a description of the inquiry, but without identifying its source.

8.4 Should the Procuring Agency deem it necessary to amend the Bidding document as a result of a clarification, it shall do so following the procedure under **ITB 9**.

8.5 If indicated **in the BDS**, the Bidder's designated representative is invited at the Bidder's cost to attend a pre-Bid meeting at the place, date and time mentioned **in the BDS**. During this pre-Bid meeting, prospective Bidders may request clarification of the schedule of requirement, the Evaluation Criteria or any other aspects of the Bidding document.

8.6 Minutes of the pre-Bid meeting, if applicable, including the text of the questions asked by Bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be uploaded on **EPADS v2.0**. Any modification to the Bidding documents that may become necessary as a result of the pre-Bid meeting shall be made by the Procuring Agency exclusively through the use of an Addendum pursuant to **ITB 9**. Non-attendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.

## 9. Amendment of Bidding documents

9.1 Before the deadline for submission of Bids, the Procuring Agency for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder or Pre-Bid meeting may modify the Bidding documents by issuing addenda through **EPADS v2.0**.

9.2 The Procuring Agency shall promptly publish the addendum through **EPADS v2.0**.

9.3 Any addendum issued including the notice of any extension of the deadline shall also be communicated through EPADS v2.0 to all the bidders who have already submitted their bids. Such bidders shall have the right to withdraw their already submitted bid and re-submit the revised bid prior to the original or extended bid submission deadline.

9.4 To give prospective Bidders reasonable time in which to take an addendum/corrigendum into account in preparing their Bids, the Procuring Agency may, at its discretion, extend the deadline for the submission of Bids through **EPADS v2.0**:

Provided that the Procuring Agency shall extend the deadline for submission of Bids, if such an addendum is issued within last three (03) days of the Bids submission deadline.

## C. Preparation of Bids

## 10. Language of Bid

10.1 The Bid prepared by the bidder, as well as all correspondence and documents relating to the Bids exchanged by the Bidder and the Procuring Agency shall be written in the English language unless otherwise specified in the BDS. 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 pages in the English language unless otherwise specified in the **BDS**, in which case, for purposes of interpretation of the Bidder, the translation shall govern.

## 11. Documents and samples Constituting the Bid

**11.1 The Bid prepared by the Bidder shall constitute** the documents required in the **BDS**.

Details of sample(s) where applicable and requested in the BDS.

1. Documentary evidence established in accordance with ITB that the Bidder is eligible and/or qualified for the subject bidding process;
2. Documentary evidence establish that the Bidder has been authorized by the manufacturer to deliver the goods into Pakistan, where required and where the supplier is not the manufacturer of those goods;
3. Documentary evidence establish that the goods and related services to be supplied by the Bidder are eligible goods and services, and conform to the Bidding Documents;
4. Bid security or Bid Securing Declaration furnished in accordance with **ITB 18**.

## 12. Documents Establishing Eligibility of the Goods and Conformity to Bidding documents

**12.1**To establish the conformity of the bidder to the Bidding document, the Bidder shall furnish as part of its Bids the documentary evidence that Goods provided conform to the technical specifications and standards.

## 13. Documents Establishing Eligibility and Qualification of the Bidder

**13.1** The Bidder shall furnish, as part of its Bid, all those documents establishing the Bidder's eligibility to participate in the Bidding process and/or its qualification to perform the contract if its Bid is accepted.

## 14. Form of Bids

**14.1** The Bidder shall fill the Form of Bid furnished in the Bidding documents. The Bids Form must be completed without any alterations to its format and no substitute shall be accepted.

## 15. Bids Prices

15.1 The Bids Prices quoted by the Bidder in the Form of Bid and in the Price Schedules shall conform to the requirements specified below or exclusively mentioned hereafter in the Bidding documents.

15.2 All items in the Schedule of Requirement must be listed and priced separately in the Price Schedule(s). If a Price Schedule shows items listed but not priced and neither explicitly denied, their prices shall be construed to be included in the prices of other items.

15.3 Items not listed in the Price Schedule shall be assumed not to be included in the Bid, and provided that the Bid is still substantially responsive in their absence or due to their nominal nature, the corresponding average price of the respective item(s) of the remaining substantially responsive Bidder(s) shall be construed to be the price of those missing item(s)

15.4 The Bid price to be quoted in the Form of Bid in accordance with **ITB 14.1** shall be the total price of the Bid.

15.5 The Bidder shall indicate on the appropriate Price Schedule, the unit prices (where applicable) and total Bid price of the Goods it proposes to provide under the contract.

15.6 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account. A Bid submitted with an adjustable price will be treated as non-responsive and shall be rejected.

## 16. Bids Currencies

16.1 Prices shall be quoted in Pakistani Rupees unless otherwise specified in the BDS in accordance with Rule 30(2) of the Public Procurement Rules, 2004.

## 17. Bids Validity Period

17.1 Bids shall remain valid for the period specified in the **BDS** after the Bid submission deadline prescribed by the Procuring Agency. A Bid valid for a shorter period shall be rejected by the Procuring Agency as non-responsive. The period of Bid validity will be determined from the complementary Bid securing instrument, i.e. the expiry period of Bid Security or Bids Securing Declaration as the case may be.

17.2 The procuring agency shall ordinarily be under an obligation to process and evaluate the bid and to issue letter of award within the stipulated bid validity period.

17.3 Under exceptional circumstances, prior to the expiration of the initial Bid validity period, the Procuring Agency may request the Bidders' consent to an extension of the period of validity of their Bids only once through **EPADS v2.0**, for the period not more than the period of initial bid validity. The Bid Security provided under **ITB 18** shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid security or causing to be executed its Bid Securing Declaration. A Bidder agreeing to the request will not be required nor permitted to modify its Bid, but will be required to extend the validity of its Bid Security or Bid Securing Declaration for the period of the extension.

## 18. Bid Security or Bid Securing Declaration

18.1 The Bidder shall furnish as part of its Bid, a Bid Security in accordance with Rule 25 of the Public Procurement Rules, 2004.

18.2 The original Bid Security shall be enclosed within the sealed envelope and to be submitted physically before closing time for submission of bids. Whereas, scanned copy of bid security shall be uploaded electronically through EPADS v2.0 before closing hours for submission of bids.

18.3 The Bidder who failed to submit the original Bids security before the submission deadline shall be disqualified straightaway.

18.4 The Bid Security or Bid Securing Declaration is required to protect the Procuring Agency against the risk of Bidder's conduct which would warrant the security's forfeiture, pursuant to **ITB 18.7**.

18.5 The Bid Security shall be denominated in the local currency, and it shall be a Bank Draft in the name of the Procuring Agency and valid for twenty-eight (28) days beyond the end of the validity of the Bid. This shall also apply if the period

for Bids/Bid Validity is extended. In either case, the form must include the complete name of the Bidder.

18.6 The Bid Security shall be payable promptly upon written demand by the Procuring Agency in case any of the conditions listed in **ITB 18** are invoked.

18.7 Unsuccessful Bidders' Bid Security will be discharged or returned as promptly as possible, however in no case later than thirty (30) days after the expiration of the period of Bids Validity prescribed by the Procuring Agency pursuant to **ITB 17**. The Procuring Agency shall make no claim to the amount of the Bid Security, and shall promptly return the Bid Security document, after whichever of the following that occurs earliest:

1. the expiry of the Bid Security;
2. the entry into force of a procurement contract and the provision of a Performance Guarantee, for the performance of the contract if such a guarantee, is required by the Bid documents;
3. the rejection by the Procuring Agency of all Bids;
4. the withdrawal of the Bids prior to the deadline for the submission of Bids, unless the Bids documents stipulate that no such withdrawal is permitted.

18.8 The successful Bidder's Bids Security will be discharged upon the Bidder signing the contract, or furnishing the Performance Guarantee.

18.9 The Bid Security may be forfeited or the Bid Securing Declaration executed:

1. if a Bidder:
  2. withdraws its Bid during the period of Bid Validity as specified by the Procuring Agency, and referred by the Bidder on the Form of Bids except as provided for in **ITB 17.2**; or
  3. does not accept the correction of errors; or
  4. in the case of a successful Bidder, if the Bidder fails:
    5. to sign the contract; or
    6. to furnish Performance Guarantee.

## 19. Withdrawal, Substitution, and Modification of Bid

19.1 Before Bid submission deadline, any Bidder may withdraw, substitute, or modify its Bid after it has been submitted through EPADS v2.0. Bids requested to be withdrawn, shall be returned unopened to the Bidders through **EPADS v2.0**.

## 20. Format and Signing of Bid

20.1 The Bidder shall prepare and submit Bids with due diligence after carefully reading all the terms and condition **before bid submission deadline** through EPADS v2.0.

## D. Submission of Bids

### 21. Submission of Bids through EPADS v2.0

21.1 The Technical and Financial Bids if required to submitted, shall be submitted on **EPADS v2.0**.

### 22. Deadline for Submission of Bids

22.1 Bids shall be received by the Procuring Agency through **EPADS v2.0** before bid submission deadline.

22.2 The Procuring Agency may, under exceptional circumstances, extend the deadline for the submission of Bids, after recording reasons in writing and in an equal opportunity manner.

In such case, all rights and obligations of the Procuring Agency and the Bidders that were previously governed by the original deadline shall thereafter be subject to the revised deadline.

## E. Opening and Evaluation of Bids

### 23. Opening of Bids

23.1 The Bid Evaluation Committee of the Procuring Agency shall open all Bids through the EPADS v2.0, on the date and time specified in the Bid Data Sheet (BDS).

23.2 The Bid Evaluation Committee **shall generate minutes through EPADS v2.0 containing brief details of bid opening process.** The record of the Bid opening shall include, as a minimum: the name of the Bidder, the Bid price if applicable, and the presence or absence of a Bid Security or Bid Securing Declaration.

23.3 The procuring agency shall live broadcast the opening of bids on national media or on their website or digital channels, if the volume of procurement exceeds five hundred million rupees in case of goods and services and one thousand million rupees in case of works.

23.4 In case the date of opening of bid has been declared as public holiday or the procuring agency fail to open bid due to any EPADS v2.0 related issues, the submission and opening of bids shall be shifted to the next working day on the same time.

23.5 In case of Single Stage One Envelope Procedure, the Bidders names, the Bid prices, the total amount of each Bid and, the presence or absence of Bid Security, Bid Securing Declaration and such other details as the Procuring Agency may consider appropriate, will be announced by the Bid Evaluation Committee.

## 24. Clarification of Bids

24.1 To assist in the examination, evaluation and comparison of Bids of the Bidders, the Procuring Agency may, ask any Bidder for a clarification of its Bid including breakdown of prices.

24.2 The request for clarification and the response shall be sought through EPADS v2.0 **before three days prior to the deadline for submission of bids.** No change in the prices or substance of the Bids shall be sought, offered, or permitted.

24.3 The alteration or modification in the BIDS which in any way affect the following parameters will be considered as a change in the substance of a Bids:

1. evaluation & qualification criteria;
2. required scope of work or specifications;
3. all securities requirements;
4. tax requirements;

5. terms and conditions of Bidding documents.

6. change in the ranking of the Bidder

24.4 From the time of Bids opening to the time of Contract award if any Bidder wishes to contact the Procuring Agency on any matter related to the Bids it should do so through **EPADS v2.0**.

## 25. Preliminary Examination of Bids

25.1 Prior to the detailed evaluation of Bids, the Procuring Agency will determine whether each Bid:

1. meets the eligibility criteria defined in **ITB 3**;
2. has been prepared as per the format and contents defined by the Procuring Agency in the Bidding documents;
3. is accompanied by the required securities; and
4. is substantially responsive to the requirements of the Bidding documents.

25.2 The Procuring Agency's determination of a Bid's responsiveness will be based on the contents of the Bid itself.

25.3A substantially responsive Bid is one which conforms to all the terms, conditions, and specifications of the Bidding documents, without material deviation or reservation. A material deviation or reservation is one that: -

1. affects in any substantial way the scope, quality, or performance of the Goods;
2. limits in any substantial way, inconsistent with the Bidding documents, the Procuring Agency's rights or the Bidders obligations under the Contract; or
3. if rectified, would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.

25.3 If a Bids is not substantially responsive, it will be rejected by the Procuring Agency and may not subsequently be evaluated for complete technical responsiveness.

## 26. Examination of Terms and Conditions; Technical Evaluation

26.1 The Procuring Agency shall examine the Bids to confirm that all terms and conditions specified in the **GCC** and the **SCC** have been accepted by the Bidder without any material deviation or reservation.

26.2 The Procuring Agency shall evaluate the technical aspects of the Bids submitted, to confirm that all requirements specified in Schedule of Requirements and Technical Specifications of the Bidding documents have been met without material deviation or reservation.

26.3 If after the examination of the terms and conditions and the technical evaluation, the Procuring Agency determines that the Bid is not substantially responsive in accordance with **ITB 25.2**, it shall reject the Bid.

## 27. Correction of Errors

27.1 Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: -

1. if there is a discrepancy between unit prices and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected, unless in the opinion of the Procuring Agency there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected;
2. if there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and the total shall be corrected; and
3. where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.
4. Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bids, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.

27.2 The amount stated in the Bid will, be adjusted by the Procuring Agency in accordance with the above procedure for the correction of errors and, with the concurrence of the Bidder, shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, its Bid will then be rejected, and the Bid Security may be forfeited or the Bids Securing Declaration may be executed.

## 28. Conversion to Single Currency

28.1 To facilitate evaluation and comparison, the Procuring Agency will convert all Bids prices expressed in the amounts in various currencies in which the Bids prices are payable. For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate prevailing on the date of opening of financial bids specified in the bidding documents, in accordance with weighted average customer exchange rates list issued by the State Bank of Pakistan on that day.

## 29. Evaluation of Bids

29.1 The Bids, quotations, or proposals shall be evaluated by the respective evaluation committees as per evaluation criteria described in the Bidding Documents in accordance with Rule 29 and 30 of the Public Procurement Rules, 2004.

### **1. Least Cost Based Selection (LCBS)**

After meeting the requirements of eligibility, qualification and substantial responsiveness, the bid in compliance with all the mandatory (technical) specifications/requirements and/or requisite quality threshold (if any), and having lowest evaluated cost (or financial proposal) shall be considered Successful Bid.

### **2. Quality and Cost Based Selection (QCBS)**

In such combination, there shall be some specific weightage of both the technical features and financial aspects of the proposal. The financial marks shall be awarded on the basis of inverse proportion calculations. The successful bid shall be declared, on the basis of combined evaluation.

### **3. Quality Based Selection (QBS)**

After meeting the requirements of eligibility, qualification and substantial responsiveness the bid in compliance with all the mandatory (technical) specifications/requirements and attaining highest marks in the Technical Evaluation considering all other qualitative and/or quantitative parameters (or point rated criteria) for technical proposal(s) such as working methodology, implementation plan, resource allocation, additional functionalities, risk management approach, knowledge transfer techniques, post implementation methodology etc. shall be treated as highest ranked bid. Later on, the financial proposal of highest ranked bidder shall be opened, however, in case of failure to proceed further with such a bidder, the procuring agency may resort to second

highest bidder and so on.

29.2 In case of tie of bids, the bidders shall be provided an opportunity to offer their best and final monetary offer through EPADS v2.0. However, in no case the rates shall be higher than the original financial bids.

## 30. Domestic Preference

30.1 The procuring agency shall evaluate and compare bids, allow for preference to domestic bidders, while competing with the international bidders in accordance with the policies of Federal Government.

The percentage of preference, to be accorded shall be clearly mentioned in the bidding documents under the bid evaluation criteria.

## 31. Determination of Successful Bid

31.1 Selection technique will be adopted for determining the Successful Bid in accordance with the criteria referred in the BDS or prescribed in the separate section titled as Evaluation Criteria.

31.2 In case where the Procuring Agency adopts the Cost Based Evaluation Technique and, the Bid with the lowest evaluated price from amongst those which are eligible, compliant and substantially responsive shall be the Successful Bid.

31.3 The Procuring Agency may adopt the Quality & Cost Based Selection Technique due to the following two reasons:

1. Where the Procuring Agency knows about the main features, usage and output of the products; however not clear about the complete features, technical specifications and functionalities of the goods to be procured and requires the bidders to submit their proposals defining those features, specifications and functionalities; or
2. Where the Procuring Agency, in addition to the mandatory requirements and mandatory technical specifications, requires parameters specified in EvaluationCriteria to be evaluated while determining the quality of the goods.

31.4 In such cases, the Procuring Agency may allocate certain weightage to these factors as a part of Evaluation Criteria, and may determine the ranking of the bidders on the basis of combined evaluation in accordance with provisions of Rule 2(1)(h) of the Public Procurement Rules, 2004.

## 32. Abnormally Low Financial Bids

32.1 Where the Bid price is considered to be abnormally low, the Procuring Agency shall perform price analysis either during determination of Successful Bids or as a part of the post-qualification process.

32.2 The Procuring Agency may reject an Abnormally low financial bids.

32.3 In order to identify the Abnormally Low Bids (ALB) following approaches can be considered to minimize the scope of subjectivity:

1. Comparing the Bids price with the cost estimate;
2. Comparing the Bids price with the Bids offered by other Bidders submitting substantially responsive Bids; and
3. Comparing the Bids price with prices paid in similar contracts in the recent past either government- or development partner-funded.

32.4 The Procuring Agency will determine to its satisfaction whether the Bidder that is selected as having submitted the successful bid is qualified to perform the contract satisfactorily.

32.5 The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, as well as such other information as the Procuring Agency deems necessary and appropriate. Factors not included in these Bidding documents shall not be used in the evaluation of the Bidders' qualifications.

32.6 Procuring Agency may seek "Certificate for Independent Price Determination" from the Bidder and the results of reference checks may be used in determining an award of contract.

Explanation: The Certificate shall be furnished by the Bidder. The Bidder shall certify that the price is determined keeping in view of all the essential aspects such as raw material, its processing, value addition, optimization of resources due to economy of scale, transportation, insurance and margin of profit etc.

32.7 An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's Bids, in which event the Procuring Agency will proceed to the next ranked Bidder to make a similar determination of that Bidder's capabilities to perform

satisfactorily.

## F. Award of Contract

### 33. Criteria of Award

33.1 The Procuring Agency will award the Contract to the Bidder whose Bids has been determined to be substantially responsive to the Bidding documents and who has been declared as Most Advantageous Bidder.

### 34. Negotiations

34.1 The procuring agency shall not engage in negotiations with respect to scope and price with the bidder except when the procuring agency conducts a procurement using direct **or negotiated** contracting or a request for proposals with evaluation based on quality alone.

34.2 The procuring agency may negotiate with the most advantageous bid with a view to streamline the work or task execution, at the time of contract finalization on methodology, work plan, staffing, finalizing payment arrangements, delivery arrangements, minor amendments to the special conditions of the contract.

### 35. Procuring Agency Right to reject all bids

35.1 The Procuring Agency reserves the right to reject all bids or proposals at any time prior to the issuance of the Letter of Award, without incurring any liability, in accordance with Rule 33 of the Public Procurement Rules, 2004.

### 36. Procuring Agency's Right to Vary Quantities at the Time of Award

36.1 The Procuring Agency reserves the right at the time of contract award to increase or decrease the **quantity of** Goods originally specified in these Bidding documents provided this does not exceed **by** 15%, without any change in unit price or other terms and conditions of the Bids and Bidding documents.

### 37. Notification of Award

37.1 Prior to the award of contract, the procuring agency shall announce and publish the result of bid evaluation on **EPADS v2.0** in accordance with Rule 35

of the Public Procurement Rules, 2004.

37.2 The Bidder whose Bids has been accepted will be notified of the award by the Procuring Agency prior to expiration of the Bids/Bid Validity period. The Letter of Award will state the sum that the Procuring Agency will pay the successful Bidder in consideration for the delivery of Goods as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price).

37.3 The Letter of award will constitute the formation of the Contract, subject to the Bidder furnishing the Performance Guarantee and signing of the contract.

## 38. Signing of Contract

38.1 Promptly after issuance of Letter of award, Procuring Agency shall send the successful Bidder the draft Contract, incorporating all terms and conditions as agreed by the parties to the contract.

38.2 Immediately after the Redressal of grievance by the GRC (if any), mandatory standstill period in accordance with Rule 35 of the Public Procurement Rules, 2004 and **after fulfillment of all condition's precedent** of the Contract Form, the successful Bidder and the Procuring Agency shall sign the Contract.

## 39. Corrupt & Fraudulent Practices

39.1 Procuring Agencies (including beneficiaries of Government funded projects and procurement) as well as Bidders/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts, and will avoid to engage in any corrupt and fraudulent practices.

## F. Grievance Redressal & Complaint Review Mechanism

### 40. Constitution of Grievance Redressal

40.1 The Grievance Redressal Committee shall address the grievance, if any submitted by any party, including the bidder, in accordance with Rule 48 of the Public Procurement Rules, 2004 to be read with Redressal of Grievances Regulations, 2021.

40.2 In case if any party or the bidder is not satisfied with the decision of the GRC or if it fails to decide within ten days, the bidder or the party may file an appeal before the Appellate Committee of the Authority in accordance with Rule 48 of the Public Procurement Rules, 2004 to be read with Redressal of Grievances Regulations, 2021.

## G. Mechanism of Blacklisting

### 41. Mechanism of Blacklisting

41.1 The Procuring Agency shall initiate blacklisting proceedings against any bidder, supplier, or contractor in accordance with the Mechanism for Blacklisting Regulations, 2024, read with Rule 19 of the Public Procurement Rules, 2004.

41.2 The blacklisted/debarred bidder may file the review petition before the Authority in accordance with Rule 19 of the Public Procurement Rules, 2004 to be read with Procedure of filing and disposal of Review Petitions Regulations, 2021.





## Bid Data Sheet

# Bids Data Sheet (BDS)

The following specific data for the procurement of Goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

*BDS Clause Number*

*ITB Number*

*Amendments of, and Supplements to, Clauses in the Instruction to Bidders*

## A. Introduction

**BDS Clause Number 1**

**ITB Number 1.1**

Name of Procuring Agency: **NTU-KC (Registrar Office)**

The subject of procurement is: **GH-2604-01 Serial # 1 (Purchase and Installation of 15 KW Hybrid Solar System Complete for NTU Karachi Campus)**

Expected commencement date: **Tuesday, June 23, 2026**

**BDS Clause Number 2**

**ITB Number 2.1**

Financial year for the operations of the Procuring Agency: **2025-26**

Name and identification number of the Contract: **P30167**

**BDS Clause Number 3**

**ITB Clause Number 3.1**

JV/Consortium or Association Allowed: **No**

Number of JV/Consortium Members: **Nil**

*see section of eligibility criteria.*

## B. Bidding Documents

**BDS Clause Number 4**

**ITB Number 8.1**

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date:  
Monday, May 11, 2026

## C. Preparation of Bids

### **BDS Clause Number 5**

#### **ITB Number 10.1**

The Language of all correspondences and documents related to the Bids shall be in: **English**

List of documents required along with the bid: No

### **BDS Clause Number 6**

#### **ITB Number 11.1**

#### **Items/Lots and threere relateddocuments:**

*See section items and Lots*

### **BDS Clause Number 7**

#### **ITB Number 12.1**

#### **Items / Lots Specifications:**

*see section of items specifications.*

### **BDS Clause Number 8**

#### **ITB Number 15.6**

The price shall be **Fixed**.

### **BDS Clause Number 9**

#### **ITB Number 16.1**

Currency of the Bids shall be : **PKR**

### **BDS Clause Number 10**

#### **ITB Number 17.1**

The Bids/Bid Validity period shall be: **88 Days**

### **BDS Clause Number 11**

#### **ITB Number 18.1**

The amount of Bid Security shall be as defined in Bid Security Section for items and lots given in **BDS 6**

The Bid Security shall be in the form of: **Pay Order, Banker's Cheque, Bank**

## **Guarantee, Demand Draft**

### **D. Submission of Bids**

#### **BDS Clause Number 12**

##### **ITB Number 20.1**

Bid shall be submitted online on EPADS v2.0 whereas hard copy of the bid security should be submitted to the following;

**NTU Faisalabad Sheikhpura Road Manawala Faisalabad** before bid submission deadline.

Bids that are not submitted on EPADS v2.0 shall be disqualified.

The deadline for Bids submission is: **Tuesday, May 19, 2026 02:00 PM**

### **E. Opening and Evaluation of Bids**

#### **BDS Clause Number 13**

##### **ITB Number 23.1**

The Bids opening shall take place on **EPADS v2.0**.

Day : **Tuesday**

Date: **Tuesday, May 19, 2026**

Time : **02:30 PM**

#### **BDS Clause Number 14**

##### **ITB Number 31.1**

Selection technique adopted will be: **Least Cost Based Selection (LCBS)**  
*see Evaluation Criteria*

### **F. Review of Procurement Decisions**

#### **BDS Clause Number 15**

##### **ITB Number 41.1**

Grievance against this procurement shall be submitted online on EPADS v2.0.

Arbitrator shall be appointed by mutual consent of the both parties.

## Eligibility Criteria

Bidder's Type	Required Registration
Individual / Individual Consultant	NADRA CITIZENSHIP (CNIC/NICOP)
Sole Proprietorship	FBR (NTN)
Partnership Firm	FBR (GSTN)
Company (Private Limited)	
Company (Public Limited)	
Company (Holding Company)	
Company (Limited by Guarantee)	
State Owned Enterprise (Private Limited)	

## Evaluation Criteria

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

### **Least Cost Based Selection (LCBS)**

<b>Technical Marks</b>	<b>100</b>
<b>Passing Marks</b>	<b>90</b>
Technical Evaluation Criteria	
Comply Specification 100% (Quantitative)(Doc Required)	70
Do not comply 100 % Specification (Quantitative)(Doc Required)	0
Registered with tax bodies and completed 5 projects (Quantitative)(Doc Required)	20
Completed 1 Project <b>(20)</b>	
Completed 1 Project <b>(4)</b>	
Compliance to non Blacklisted in public sector (Quantitative)(Doc Required)	10

## Items/Lots

### Items Without Lots :

Item	UNSPSC	Delivery Schedule	Quantity	Bid Security
Solar System	Solar power plants	<b>Address:</b> NTU Faisalabad Sheikhupura Road Manawala Faisalabad <b>Schedule:</b> 15-06-2026 <b>Quantity:</b> 01	1	67500

### Related Services of Goods:

No

# Items/Lot Specification

## Items Without Lots :

**Item:** Solar System

**UNSPSC:** Solar power plants

## Specifications / Requirements:

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	__EMPTY	__EMPTY_1	__EMPTY_2
		1. Photovoltaic Module	
		Module Make	Quoted brand given by the installer should be available (Tier 1 grade product) on official website of the manufacturer. All the specifications of the quoted module including product make, model, specifications and performance parameters should also be available on the official website of the vendor.

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	_EMPTY	_EMPTY_1	_EMPTY_2
		P.V. Module Capacity	600Watt (W) or better, N-Type Bifacial TOPCon Technology, must be compatible with the existing solar system.
		Module Parameters	Efficiency equal or better than 23%, Low Temperature Coefficient (Pmax) - 0.29%/°C, heavy snow load equal or better than 5400 Pa, wind load equal or better 2400 Pa)
		Power Tolerance	Between 0 ~ +10W
		Power Bifaciality	
			Equal or better than 80%
		Certification	T.U.V. Certified as per IEC 61215, IEC 61730, or equivalent.
			Potential Induced Degradation (P.I.D) free certificate from T.U.V must be provided.

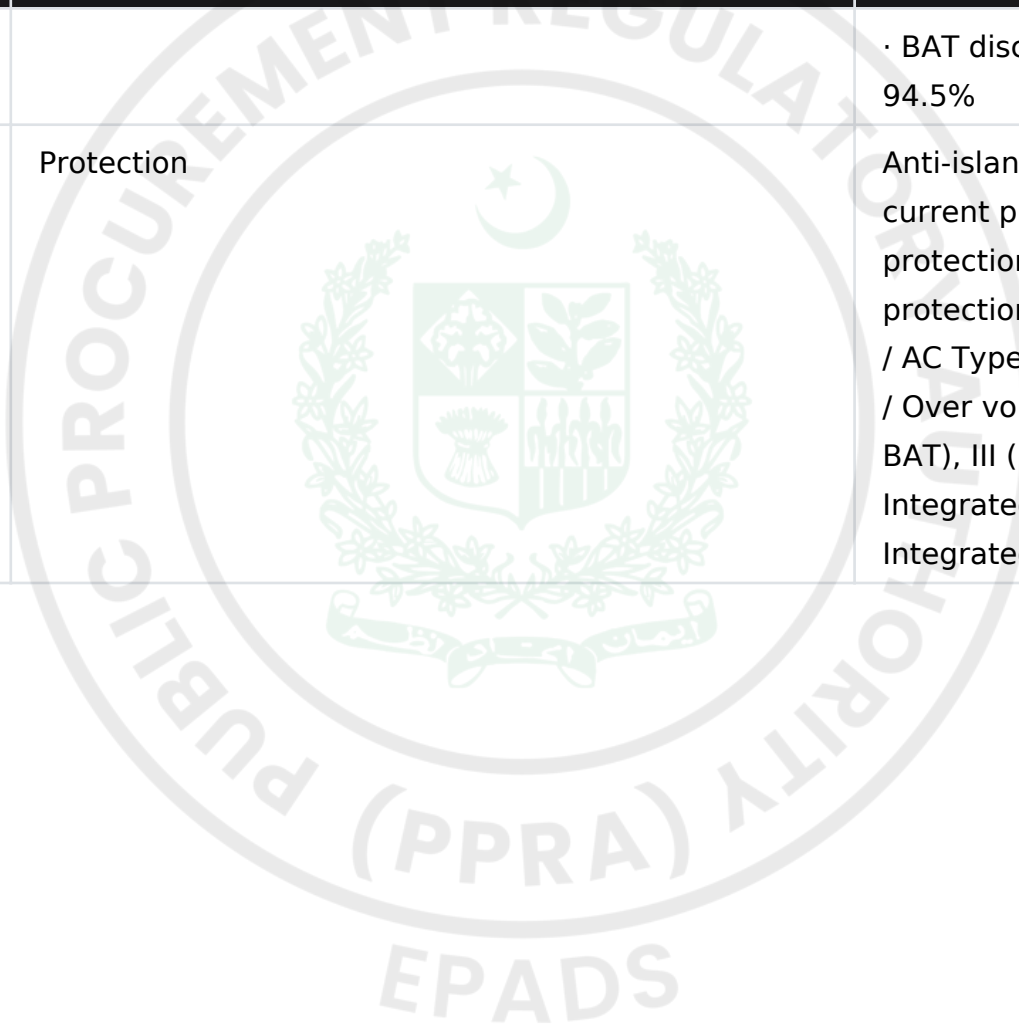
Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	_EMPTY	_EMPTY_1	_EMPTY_2
		Junction Box	Must comply with I.P.68 standard including 3 bypass diodes with 1500V(I.E.C./UL) insulation class or above (must comply with safety standards concerning the system.
		Cable	4.0 mm2 (I.E.C.), 12 AWG (UL) insulation class or better
			Type 29 (UL 61730) or Class C (IEC61730)
		Warranty	12 years product replacement warranty (Official)
			30 years linear power performance warranty (Official)
			First Year Power degradation no more than 1% and subsequent annual power degradation no more than 0.4%
			10 years of local product replacement warranty by the installer*

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	__EMPTY	__EMPTY_1	__EMPTY_2
		Min. Specifications required	
		Inverter Make	The quoted brand must be an internationally recognized brand with a proven reputation for quality. Additionally, the brand should offer local official warranty support to ensure post installation services and maintenance within Pakistan. The quoted brand must be verifiable (product make, model, specifications, performance parameters) on the manufacturer's official website.
		Input DC (PV- Side):	
		Maximum PV array size	· 30 kW
		Maximum usable PV input power	
		Max. Input current	· 24Kw
		Max. Short Circuit	· 40 A/40A

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	_EMPTY	_EMPTY_1	_EMPTY_2
		Maximum number/Max. input strings number	· 50 A/50A
		Battery	· 2/3
		Other Parameter	
		Input Grid (Grid Side)	· LiFePO4 battery supported with Battery management system (BMS) · Charging /discharging current (290 A)
		Output AC (Grid side)	· Max. input current (34.2 A/ 32.5 A)
			· Rate output power (15 kW)
			· Max. Apparent output power (15kVA)
			· Rate Grid voltage (3/N/PE, 220V / 380V; 3/N/PE, 230 V/400 V)
			· Rated grid frequency (50 Hz)
			· Rated grid output current (22.8 A/ 21.7 A)
			· Powe Factor > 0.99 ( 0.8 leading – 0.8 lagging)
		Output AC (backup)	· THDi 3%

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	_EMPTY	_EMPTY_1	_EMPTY_2
			· Rate output power (15 kW)
			Two times of rate power, 10s
			· Backup Switch time ( 10ms)
			· Rate output voltage (3/N/PE, 220V / 380V; 3/N/PE, 230 V/400 V)
			· Rated frequency (50 Hz)
			· Rated output current (22.8 A/ 21.7 A)
			· Max. Cont. output current (22.8 A/ 21.7 A)
			· Max. Cont. AC passthrough current (50A)
			· THDv @ linear load 3%
			· Efficiency:
			· Max. Inverter Efficiency 97.5%
			· EU efficiency 96.4%
			· BAT charged by PV / AC max. efficiency 95.0% / 94.4%

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	__EMPTY	__EMPTY_1	__EMPTY_2
			<ul style="list-style-type: none"> <li>· BAT discharged to AC max. efficiency 94.5%</li> </ul>
		Protection	Anti-islanding protection, Output over current protection, Short circuit protection, DC reverse-polarity protection, Surge protection DC Type II / AC Type II (Optional), Protection class / Over voltage category: I / II (PV and BAT), III (MAINS and BACKUP and GEN); Integrated AFCI 2.0: Optional, Integrated DC switch



Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	__EMPTY__	__EMPTY_1__	__EMPTY_2__
		Warranty	<p>Max. power per phase: 40%;  Dimensions (W × H × D): 430 × 660 × 305 mm; Weight: 42 kg; Topology: Non-isolated; Self-consumption (night) 30 W; Operating ambient temperature range: (-25 ~ +60°C); Relative humidity: (0 - 100%); Ingress protection: IP66; Noise emission (typical) 65 dB(A); Cooling concept: Intelligent fan-cooling; Max. operation altitude: 4000 m; Grid connection: standard EN 50549-1/-10, VDE 4105&amp;VDE 0124, NRS 097-2-1, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, EN 50438L, PEA</p>
			Safety:
			EMC standard IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4
		General Data	

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	__EMPTY	__EMPTY_1	__EMPTY_2
		Features	DC connection MC4 Quick connection plug (PV) & Screw terminal (Battery)
			AC connection Screw terminal
			Display 7.0" LCD display & Bluetooth + APP Communication CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN
			5 Year Local Warranty
		Warranty	
		3. Battery Specifications:	
		Supply, Installation, Testing and Commissioning of batteries including battery racks must be provided with the following specifications:	
		Parameters	Min. Specifications required

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	__EMPTY	__EMPTY_1	__EMPTY_2
			The Battery must be an international recognized brand with a proven reputation for quality. Additionally the brand should offer local official warranty support to ensure post installation services and maintenance within Pakistan.
		Capacity	10 Kwh
		Nominal Voltage 51.2 V	
		Nominal Capacity 100 Ah	
		Battery Energy 5.12 kWh per unit (2 units to make 10 kWh, if applicable) Battery Type Lithium Iron Phosphate (LiFePO <sub>4</sub> )	
		C-Rating (Discharge) Minimum 1C (continuous)	
		Max Discharge Current ≥ 100 A per battery (1C)	
		Peak Discharge Current ≥ 150-200 A (short duration)	
		Charge C-Rating: 1.0C - 1.5 C	

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	__EMPTY	__EMPTY_1	__EMPTY_2
		Round-trip Efficiency $\geq$ 95%	
		Warranty 5 - 10 Years local warranty	
		4. Cabling	
		<p>1. All exposed wiring including connecting cables between inverter, electrical distribution board (Containing DC, AC breakers and SPDs) and PV Module strings interconnections must be covered in conduits/duct/trenches. The cable trench material should be galvanized iron (18 guage). Wiring passing through roofing, walls, or other structural elements shall be protected using appropriate bushings/grommets. Wiring passing through roofing shall be properly sealed to ensure waterproofing (applicable to wiring only).</p>	

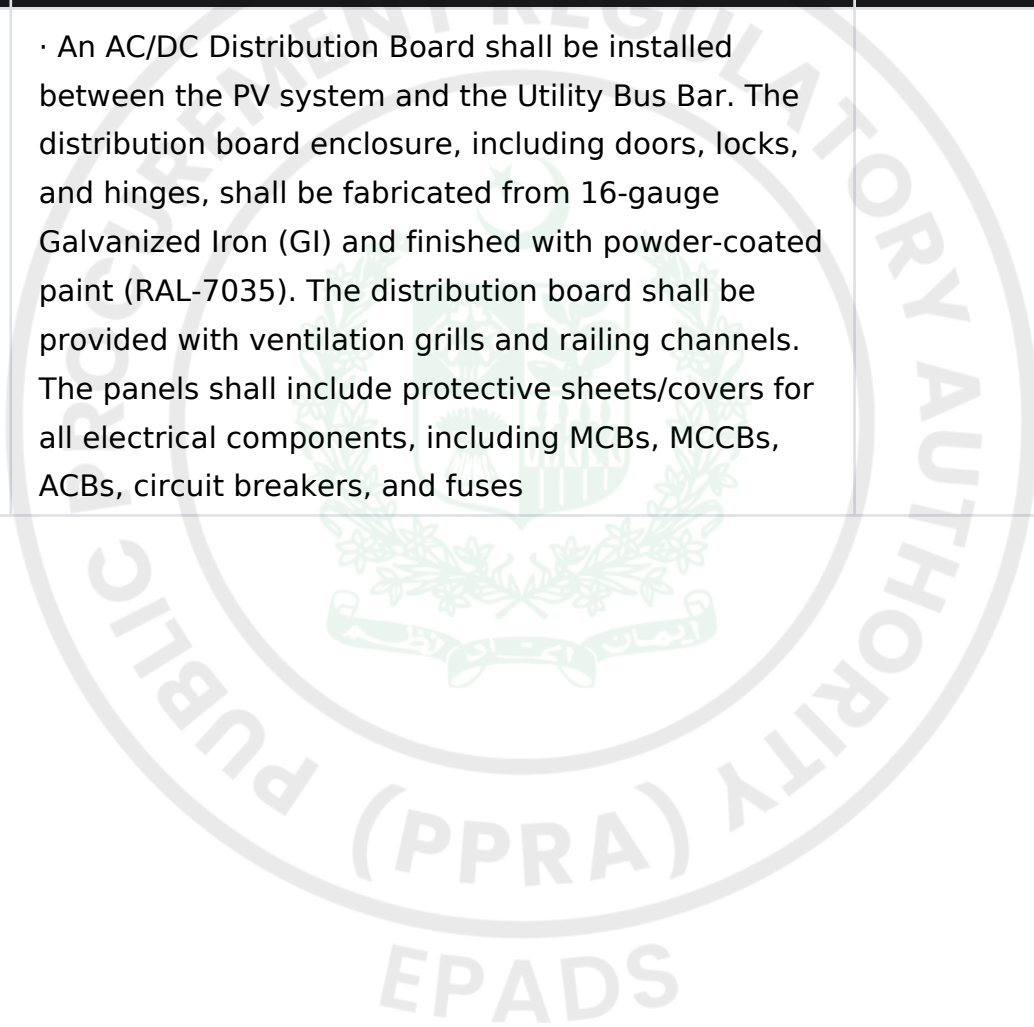
<b>Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus</b>	<u>EMPTY</u>	<u>EMPTY_1</u>	<u>EMPTY_2</u>
		<p>2. All field-installed wiring shall be connected using approved terminal strips or screw-type connectors. Soldered or crimped joints in the field shall be avoided as far as practicable. Wire nuts are strictly prohibited. The current-carrying capacity of any joint shall not be less than the rated circuit current. All electrical connections shall be enclosed within junction boxes, having a minimum IP66 rating for open/exposed installations and IP65 rating for installations under shed/covered areas. Where practical, fittings for light switches and polarity-sensitive socket outlets may be used as junction boxes, provided they meet the applicable IP and safety requirements.</p>	
		<p>3. Installation including wiring shall meet the requirement and recommendations given in 8.3 of IEC 62124 ed 1.</p>	

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	__EMPTY	__EMPTY_1	__EMPTY_2
		4. The commissioning and acceptance will be subject to the fulfilment of all requirements specified in the above-mentioned paragraphs of IEC 62124 ed.1 and additional requirement as detailed below.	
		a. No conduit or fitting shall be attached directly to hatch or any other non-supportive surface	
		b. Especially avoid installing the conduit direct over the roof; there must be distance not less than 3 inches between the roof surface and conduit/duct.	
		c. Cables must be joined by the use of junction boxes, screw-connectors, and block connectors.	
		d. All wires must be terminated with proper end sleeves and wire thimbles with different colours for positive and negative polarity.	
		e. Field installed wiring must be joined using terminal strips or screw connectors. Soldering or crimping in the field must be avoided if at all possible. Wire nuts are not allowed.	

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	_EMPTY	_EMPTY_1	_EMPTY_2
		f. The rated current carrying capacity of the joint must not be less than the circuit current rating.	
		g. Fittings for P.V. must be with polarity sensitive socket outlets to avoid short circuiting.	
		h. Size, voltage grade and manufacturer name should be printed on every cable	
		5. Cable specifications are as followed with BS/IEC standards compliance.	
		Item	Requirement
		1. P.V. to inverter	4 mm <sup>2</sup> Tinned Cu/XLPO/XLPV 1000/1500 V Cable (i.e. 99.9% pure copper, UV and Weather Resistant, Conductor Temperature of 120 °C with voltage drop less than 2%
		2. Inverter to existing Load Distribution Box	10mm <sup>2</sup> (per core) 99.9% pure copper (Stranded) 4-core PVC/PVC AC cable with voltage drop less than 2%
		5. Breakers for A.C. and D.C. Power:	

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	_EMPTY	_EMPTY_1	_EMPTY_2
		<ul style="list-style-type: none"> <li>· All circuit breakers shall be sourced from reputable international manufacturers, and samples shall be submitted to the Technical Committee for approval prior to installation.</li> </ul>	
		<ul style="list-style-type: none"> <li>· DC circuit breakers shall be rated for a minimum of 1000 V DC, or alternatively, DC fuses with compatible fuse bases shall be provided, suitable for the solar string operating voltage.</li> </ul>	
		<ul style="list-style-type: none"> <li>· The voltage rating of both DC and AC circuit breakers shall be at least 30% higher than the maximum circuit voltage, and the current rating shall be between 125% and 150% of the maximum design current of the respective circuit.</li> </ul>	
		<ul style="list-style-type: none"> <li>· Breakers must have a clear visual indication of their state (ON/OFF or I/O) and marking</li> </ul>	

<b>Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus</b>	<u>EMPTY</u>	<u>EMPTY_1</u>	<u>EMPTY_2</u>
		<ul style="list-style-type: none"> <li>· An AC/DC Distribution Board shall be installed between the PV system and the Utility Bus Bar. The distribution board enclosure, including doors, locks, and hinges, shall be fabricated from 16-gauge Galvanized Iron (GI) and finished with powder-coated paint (RAL-7035). The distribution board shall be provided with ventilation grills and railing channels. The panels shall include protective sheets/covers for all electrical components, including MCBs, MCCBs, ACBs, circuit breakers, and fuses</li> </ul>	



Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	_EMPTY	_EMPTY_1	_EMPTY_2
		<ul style="list-style-type: none"> <li>· MCBs, MCCBs, ACBs, circuit breakers, or fuses shall be of appropriate ratings to safely connect and disconnect the PV system—including PV inverters, PV arrays, and AC disconnection to the utility grid. All distribution board accessories and internal power and control wiring shall be copper conductors, properly terminated using crimped thimbles with insulating shrouds. Standard color coding shall be strictly followed for all power and control cables. The distribution board shall be equipped with three indicator lamps and provision for displaying voltage, current, and power parameters.</li> </ul>	
		<ul style="list-style-type: none"> <li>· All 400 V AC and 230 V AC devices and equipment, including busbar support insulators, circuit breakers, SFU isolators (where applicable), SPDs, and other components installed within the switchgear, shall be suitably rated for continuous operation of both the existing and newly installed PV systems.</li> </ul>	
		6. External Surge Arrester (A.C. and D.C.)	
		Parameters	min. Specifications required

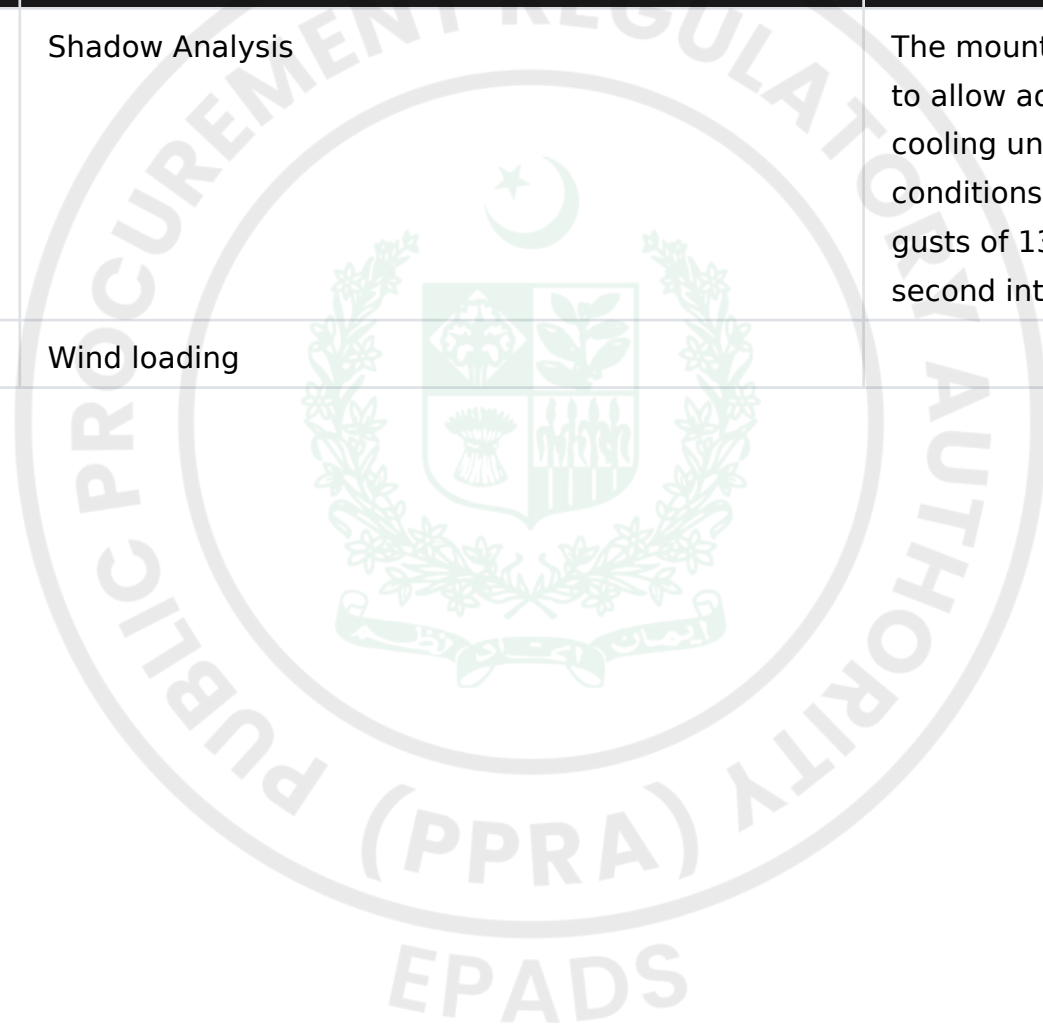
Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	__EMPTY	__EMPTY_1	__EMPTY_2
		Impulse current (Iimp)	min. 25kA (10/350µsec.)
		Response time	≤ 50nsec
		Leakage current	≤ 1 mA
		Dielectric strength	2000 V AC @ 1 minute
		Protection Class	Class 2(Type2)
		Discharge voltage	As per design
		Ingress Protection	IP20 or above
		Short circuit withstand capacity	min. 20kA
		7. Earthling, Lightning Arresters & Surge Protection System accessories	
		Calculations shall be carried out in accordance with the Rolling Sphere Method or equivalent, with detailed calculations to be submitted at the time of execution.	

<b>Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus</b>	<u>EMPTY</u>	<u>EMPTY_1</u>	<u>EMPTY_2</u>
		<ul style="list-style-type: none"> <li>· Solar panel-to-panel earthing wires shall be 6 mm<sup>2</sup> tinned copper flexible conductors (yellow-green), terminated with crimped thimbles and insulating shrouds.</li> </ul>	
		<ul style="list-style-type: none"> <li>· AC/DC earthing cables from AC/DC SPDs to ground level shall be 6 mm<sup>2</sup>, and from ground level to the bore depth shall be 25 mm<sup>2</sup>, terminated at earthing rods of 16 mm diameter and 10 ft length. Lightning arresters shall be connected using bare copper conductors, terminated in wet sand with copper rods of the same specifications.</li> </ul>	
		<ul style="list-style-type: none"> <li>· A minimum of three large pure copper lightning arresters shall be installed for protection of solar modules against lightning strikes. All earthing conductors shall be enclosed in PVC pipes or ducts, including bare copper conductors.</li> </ul>	
		<ul style="list-style-type: none"> <li>· All earthing bores (for AC, DC, and lightning arresters) shall be filled with earthing powder and completed to achieve an earthing resistance of 2.5 ohms or less.</li> </ul>	

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	__EMPTY	__EMPTY_1	__EMPTY_2
		· AC/DC distribution boxes and inverter enclosures shall be properly grounded.	
		· Comprehensive specifications of the earthing system are provided below:	
		Parameters	Min. Specifications Required
		All calculations of air termination rods must be done using rolling sphere method or Equivalent	
		Air termination rod material	Copper
		Air termination rod length	As per design
		Air termination rod diameter	As per design
		Air termination rod	As per design
		Cable for interconnecting metal structure and S.P.D.*.	6 mm <sup>2</sup> or higher, 99.99% pure copper or higher (1 core) or equaling strip for grounding
		Insulated Spacer	As per design
		Cable Bracket	As per design
		Stand - Fang Fix system	As per design

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	__EMPTY	__EMPTY_1	__EMPTY_2
			Earthing of 2.5 ohm or less (with standard earthing pit)
		Compliance	Applicable standards that may include
			ICE 62305-3 (EN62305-3)
			IEC62305-3 (EN 62305-3)
			DIN VDE 0151 and DIN 18014
		8. PV Mounting Structure	
		Description	Requirement
			Shading analysis shall be conducted using SketchUp or equivalent simulation software to identify and mitigate any potential shadowing that could reduce system performance.

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	__EMPTY	__EMPTY_1	__EMPTY_2
		Shadow Analysis	The mounting system shall be designed to allow adequate air circulation for cooling under high-temperature conditions and shall withstand wind gusts of 130 km/h measured over a 3-second interval.
		Wind loading	



Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	_EMPTY	_EMPTY_1	_EMPTY_2
		Mounting structure	The mounting structure should be L2 (As per site condition), C-channel galvanized iron (GI) of 12 Gauge thickness or better with minimum 70-micron coating. An optimal tilt angle for solar structure with maximum production throughout the year must be selected. U-Clamps and foot Clamps should be also of 12 Guage thickness (70-micron coating). The Nut Bolt Grade should be S.S 304 or better. Aluminum Mid and End clamps for solar panels must be installed throughout the structure.
		Certification	Vender will provide certificates from structural engineers for all installations (Structure Life grantee of 25 years).
		Monitoring of PV system:	

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	__EMPTY	__EMPTY_1	__EMPTY_2
		<ul style="list-style-type: none"> <li>· Real-time monitoring of newly installed as well existing PV systems must be available locally and remotely (online). The online monitoring must be displayed at Electric control room with proper inverter control functioning.</li> </ul>	
		Civil works	
		<ul style="list-style-type: none"> <li>· Existing shade-free roof-top space shall be used to install Solar PV array. While installing solar power system on rooftops, the physical condition of the rooftop, chances of shading, chances water level rise in the rooftop during raining due improper drainage in the roof-top should be taken in to consideration.</li> </ul>	
		<ul style="list-style-type: none"> <li>· PV array shall be installed in the terrace space free from any obstruction and/or shadow and to minimize effects of shadows due to adjacent PV panel rows.</li> </ul>	
		<ul style="list-style-type: none"> <li>· The solar PV array must be installed on the rooftop in such a way that there is sufficient space on the rooftop for maintenance etc.</li> </ul>	

Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus	__EMPTY	__EMPTY_1	__EMPTY_2
		<ul style="list-style-type: none"> <li>· There should not be any damage what so ever to the rooftop due to setting up of the solar power plant so that on a later day there is leakage of rainwater, etc. from the rooftop.</li> </ul>	
		<ul style="list-style-type: none"> <li>· The roof top should look clean and tidy after installation of the array.</li> </ul>	
		<ul style="list-style-type: none"> <li>· Neatness, tidiness and aesthetics must be observed while installing the systems.</li> </ul>	
		<ul style="list-style-type: none"> <li>· All Civil works required for the installation of the PV system and other civil and electrical work in evacuation infrastructure, wherever necessary, shall be within the scope of the bidder.</li> </ul>	
		<ul style="list-style-type: none"> <li>· The civil work should be according to the approved civil engineering standards.</li> </ul>	
		<ul style="list-style-type: none"> <li>· All the rawl-bolts if required as drilled into the roof - RCC must be filled with epoxy adhesion paste to prevent the penetration of water in the slab/roof tiles</li> </ul>	
		Important Notes	

<b>Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus</b>	<u>EMPTY</u>	<u>EMPTY_1</u>	<u>EMPTY_2</u>
		<ul style="list-style-type: none"> <li>· Only those company will be allowed to participate in the bidding process having AEDP license.</li> </ul>	
		<ul style="list-style-type: none"> <li>· In a technical bid, participants must quote technical specifications of all the items and, during installation, strictly in compliance with NTU technical specification document.</li> </ul>	
		<ul style="list-style-type: none"> <li>· The Company must train concerned staff / faculty members nominated by Institute authorities on site.</li> </ul>	
		<ul style="list-style-type: none"> <li>· The company must provide an appropriate schedule for maintenance to NTU officials.</li> </ul>	
		<ul style="list-style-type: none"> <li>· The installer will be bound to provide samples of all components of the PV system prior to the installation. The approved samples will be allowed to install and at any stage the University has the right to involve third party technical verification of any components.</li> </ul>	
		<ul style="list-style-type: none"> <li>· For successful bidders, Simulation analysis report, PV Modules, Samples of mounting structure, nut/bolts, MC4 Connectors, Electrical cables, SPDS, AC, DC Breakers, DB Box, and all additional accessories must be provided.</li> </ul>	

<b>Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus</b>	<u>EMPTY</u>	<u>EMPTY_1</u>	<u>EMPTY_2</u>
		<ul style="list-style-type: none"> <li>· The Successful bidder will submit the report from Centre for energy research and Development (CERAD) University Engineering Technology Lahore of the samples of quoted items (all types of the cables, complete solar plate, mounting structure with nut bolts etc.) other than Invertor (if applicable).</li> </ul>	
		<ul style="list-style-type: none"> <li>· The installer will bear the cost of this verification process. Failure in passing the component authenticity test will result in the cancelation of the project.</li> </ul>	
		<ul style="list-style-type: none"> <li>· Vendors must design galvanized fitting material according to installation site. All the holes and cuttings must be done before the coating. No cutting edges making of holes or drilling will be allowed in structure laying to avoid rusting after installation.</li> </ul>	
		<ul style="list-style-type: none"> <li>· In case of system failure or break down during the warranty period, vendor is bound to rectify the issue or replace the faulty equipment within 48 hours from the fault reporting time maximum.</li> </ul>	

<b>Technical Specifications of Proposed 15 KW Hybrid Solar System for NTU Karachi Campus</b>	<b>__EMPTY</b>	<b>__EMPTY_1</b>	<b>__EMPTY_2</b>
		<ul style="list-style-type: none"> <li>Performance of the solar panel must be insured from internationally reputable company / agency that would be arranged by manufacturer of PV panel and will transfer to end user (NTU).</li> </ul>	

## Price Schedule

### For Individual Items

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

### For Lots

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





## General Conditions of Contract

## A. General

### 1. Definitions

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

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

17. "Completion Date" means the date of completion of the contract by the Bidder as certified by the Procuring Agency;

18. "In Writing" means communicated in written form with proof of receipt;

19. "Local Currency" means the currency of Pakistan;

## **2. Application and Interpretation**

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

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

## **3. Applicable Law**

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

## **4. Governing Language**

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

## **5. Notices**

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

## **6. Delivery/Location**

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

## **7. Authorized Representatives / Authority of Member in charge**

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

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

### **8. Effectiveness of Contract**

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

## **9. Commencement of Services**

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

## **10. Program**

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

## **11. Starting Date/Expiration Date**

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

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

## **12. Entire Agreement**

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

## **13. Modification**

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

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

## **14. Force Majeure**

### **14.1 Definition**

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

### **14.2 No Breach of Contract**

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

### **14.3 Extension of Time**

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

of Force Majeure.

## **14.4 Payments**

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

## **15. Termination**

### **15.1 By the Procuring Agency**

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

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

### **15.2 By the Bidder**

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

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

## **C. Obligations of the Bidder**

## **16. General**

### **16.1 Standard of Performance**

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

### **16.2 Law Applicable to Goods**

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

## **17. Conflict of Interests**

### **17.1 Bidder Not to Benefit from Commissions and Discounts.**

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

### **17.2 Bidder and Affiliates Not to be Otherwise Interested in Project**

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

### **17.3 Prohibition of Conflicting Activities**

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

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

## **18. Confidentiality**

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

## **19. Insurance to be Taken Out by the Bidder**

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

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

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

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

## **21. Reporting Obligations**

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

## **22. Liquidated Damages**

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

### **22.2 Correction for Over-payment**

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

### **22.3 Lack of performance penalty**

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

## **23. Performance Guarantee**

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

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

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

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

## **24. Fraud and Corruption**

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

## **25. Sustainable Procurement**

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

## **D. Bidder's Personnel**

### **26. Description of Personnel**

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

### **27. Removal and/or Replacement of Personnel**

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

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

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

## **E. Obligations of the Procuring Agency**

### **28. Assistance and Exemptions**

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

### **29. Change in the Applicable Law**

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

### **30. Services and Facilities**

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

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

## **F. Payments to the Bidder**

### **31. Contract Price**

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

### **32. Terms and Conditions of Payment**

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

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

### **33. Currency of Payment**

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

## **G. Quality Control**

### **34. Identifying Defects**

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

### **35. Correction of Defects, and**

#### **Lack of Performance Penalty**

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

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

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

### **36. Taxes and Duties**

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

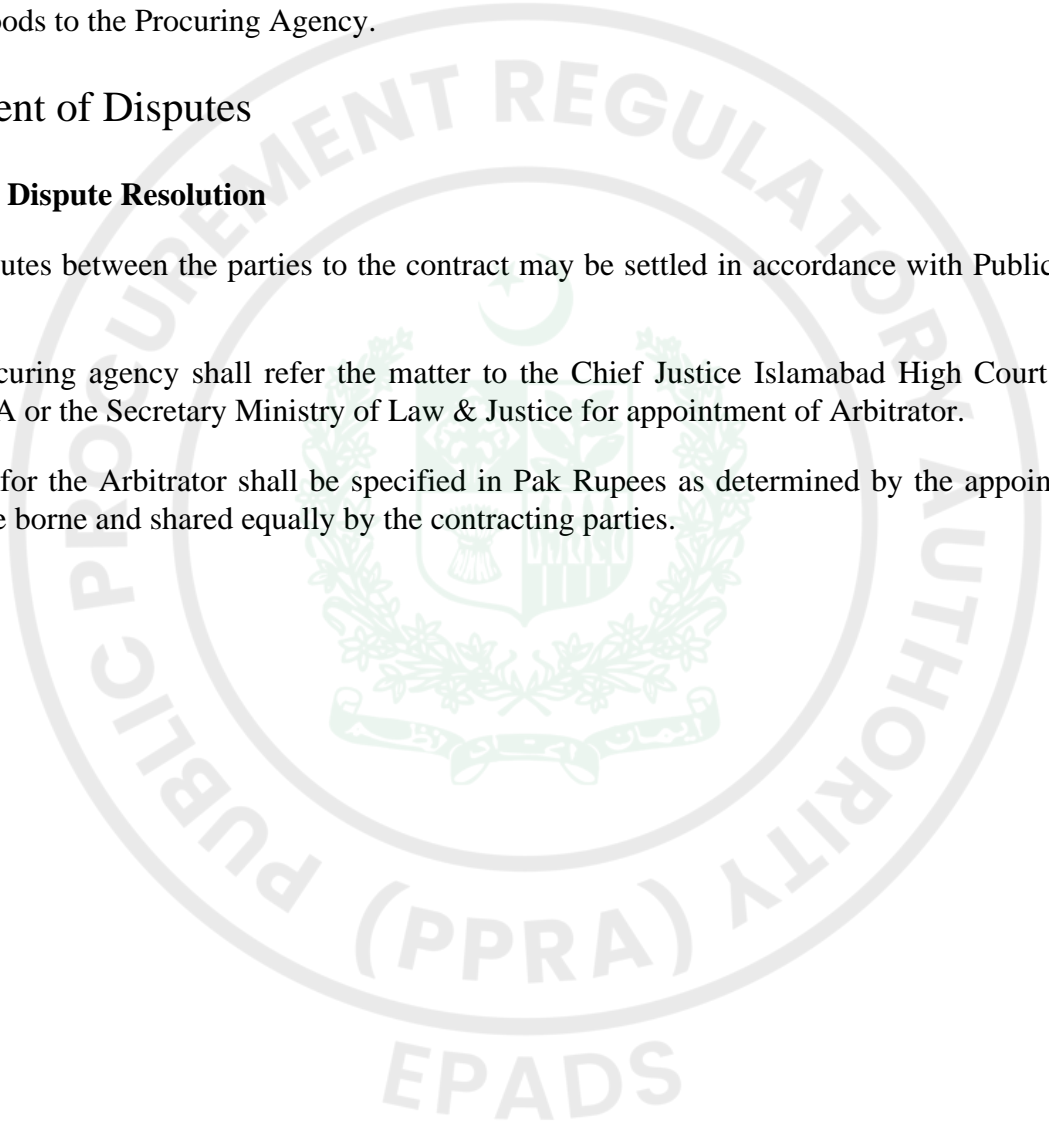
## **H. Settlement of Disputes**

### **37. Alternate Dispute Resolution**

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

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

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





## Special Conditions of Contract

## **SECTION VIII. SPECIAL CONDITIONS OF CONTRACT**

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

### ***Number of GC Clause***

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

### **Number of GC Clause 1**

#### **Definitions**

**The Procuring Agency is:** NTU-KC (Registrar Office), Deputy Registrar NTU Faisalabad Sheikhupura Road Manawala Faisalabad

#### **The Supplier is:**

**The title of the subject procurement is: GH-2604-01 Serial # 1 (Purchase and Installation of 15 KW Hybrid Solar System Complete for NTU Karachi Campus)**

### **Number of GC Clause 3**

#### **Applicable/Governing Law:**

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

### **Number of GC Clause 4**

#### **Language:**

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

### **Number of GC Clause 5**

#### **Notices:**

#### **The addresses for the notices are:**

Procuring Agency:

NTU-KC (Registrar Office), Deputy Registrar  
NTU Faisalabad Sheikhupura Road Manawala Faisalabad  
+92-346-208-6790  
mtanweer@ntu.edu.pk

Contractor/ Bidder:

[Name, address and telephone number].

The Contractor/ Bidder's Representative(s)

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

**Number of GC Clause 7.1**

**The Authorized Representatives are:**

**For the Procuring Agency:**

NTU-KC (Registrar Office), Deputy Registrar  
NTU Faisalabad Sheikhpura Road Manawala Faisalabad  
+92-346-208-6790  
mtanweer@ntu.edu.pk

**For the Bidder:**

**Name:** .....

**Designation:** .....

**Address:** .....

**Number of GC Clause 8**

**Effectiveness of the contract**

**Number of GC Clause 9**

**Commencement of Contract:**

**Number of GC Clause 11.2**

**Expiration of Contract:**

**Number of GC Clause 15**

**Termination**

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

**Number of GC Clause 17**

**Conflict of Interest:**

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

**Number of GC Clause 22**

**Liquidated Damages**

If the Bidder fails to provide services as required under the contract or in case of any data loss/data breach or any incident compromising the data security or other such failures related to any services, the Bidder shall pay to the Procuring Agency as Liquidated Damages at a rate of **0.05%** to **2.00%** of the Contract value, in accordance with the extent of performance failure & the cost of investigating such incidents as judged by the

Authority.

**Number of GC Clause 23**

**Performance Guarantee:**

The amount of performance guarantee shall be **0%** of the contract price in acceptable form of **Nil**

**Number of GC Clause 32**

**Payment terms:**

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

**Number of GC Clause 33**

**Currency of Payment:**

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

**Number of GC Clause 34**

**Identifying Defects:**

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

**Inspections & Tests Requirements**

For being Brand New, bearing relevant reference numbers of the equipment (Certificate from supplier)

For Physical Fitness having No Damages (Certificate from supplier)

For the Country of Origin as quoted by the Supplier (Certificate from manufacturer)

For conformance to specifications and performance parameters, through Prior to delivery inspection (Inspection Report by Procurement Committee / Inspection Team)

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

**Delivery & Documents**

Copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;

Original and two copies of the usual transport document (for example, a negotiable bill of lading, a non-negotiable sea waybill, an inland waterway document, an air waybill, a railway consignment note, a road consignment note, or a multimodal transport document) which the buyer may require to take the goods;

Copies of the packing list identifying contents of each package;

Insurance Certificate;

Manufacturer's or Supplier's Valid Warranty Certificate;

Inspection Certificate issued by the Nominated Inspection Agency (if any), and the Supplier's Factory Inspection Report;

Certificate of Origin.

The above documents would be required even if the equipment has already been imported and is available with the supplier ex-stock

### **Number of GC Clause 37**

### **Following is the guidance for Dispute Resolution**

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

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

### **Rules of procedure for arbitration proceedings:**

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

### **Place of Arbitration and Award:**

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



Bid Securing Declaration

## Form 9: Bid Securing Declaration

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

Bid No.: **P30167**

To: **NTU-KC (Registrar Office), Deputy Registrar NTU Faisalabad Sheikhupura Road Manawala Faisalabad**

We, the undersigned, declare that:

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

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

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

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

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



Contract Form

## SECTION IX: CONTRACT FORMS

THIS AGREEMENT made the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_ between **NTU-KC (Registrar Office), Deputy Registrar NTU Faisalabad Sheikhupura Road Manawala Faisalabad**

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

WHEREAS the Procuring Agency invited Bids for provision of goods, viz., **GH-2604-01 Serial # 1 (Purchase and Installation of 15 KW Hybrid Solar System Complete for NTU Karachi Campus) (P30167)** and has accepted a Bids by the Bidder for the provision of Goods in the sum of [contract price in words and figures] (hereinafter called “the Contract Price”).

### NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

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

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

1. This form of Contract;
2. the Form of Bids and the Price Schedule submitted by the Bidder;
3. the Schedule of Requirements;
4. the Technical Specifications;
5. the Special Conditions of Contract;
6. the General Conditions of the Contract;
7. the Procuring Agency’s Letter of Acceptance; and

8. [add here: any other documents]

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

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

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

Signed, sealed, delivered by \_\_\_\_\_ the \_\_\_\_\_ (for the Procuring Agency)

Witness to the signatures of the Procuring Agency:

.....

Signed, sealed, delivered by \_\_\_\_\_ the \_\_\_\_\_ (for the Procuring Agency)

Witness to the signatures of the Bidder: .....





Integrity Pact

## Integrity Pact

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

**Contract Number:** Contract Value: Contract Title:

Dated:

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

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

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

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

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



## Performance Guarantee Form

# Performance Guarantee Form

To: NTU-KC (Registrar Office), Deputy Registrar NTU Faisalabad Sheikhupura Road Manawala Faisalabad

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

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

AND WHEREAS we have agreed to give the Bidders guarantee:

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

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

Signature and seal of the Guarantors

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*[name of bank or financial institution]*

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*[address]*

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*[date]*



Annexure

No Annexure Defined.





## Procurement Forms

## Past Experience and Completed Contracts

See Form Under Additional Forms and Documents: **Past Experience and Completed Contracts** (page number: 88)

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

See Form Under Additional Forms and Documents: **Historical Contract Non-Performance, and Pending Litigation and Litigation History** (page number: 89)

## Current Contracts and Their Progress

See Form Under Additional Forms and Documents: **Current Contracts and Their Progress** (page number: 91)

## Financial Capacity and Net Worth Evaluation Form

See Form Under Additional Forms and Documents: **Financial Capacity and Net Worth Evaluation Form** (page number: 92)

## Average Annual Turnover

See Form Under Additional Forms and Documents: **Average Annual Turnover** (page number: 94)



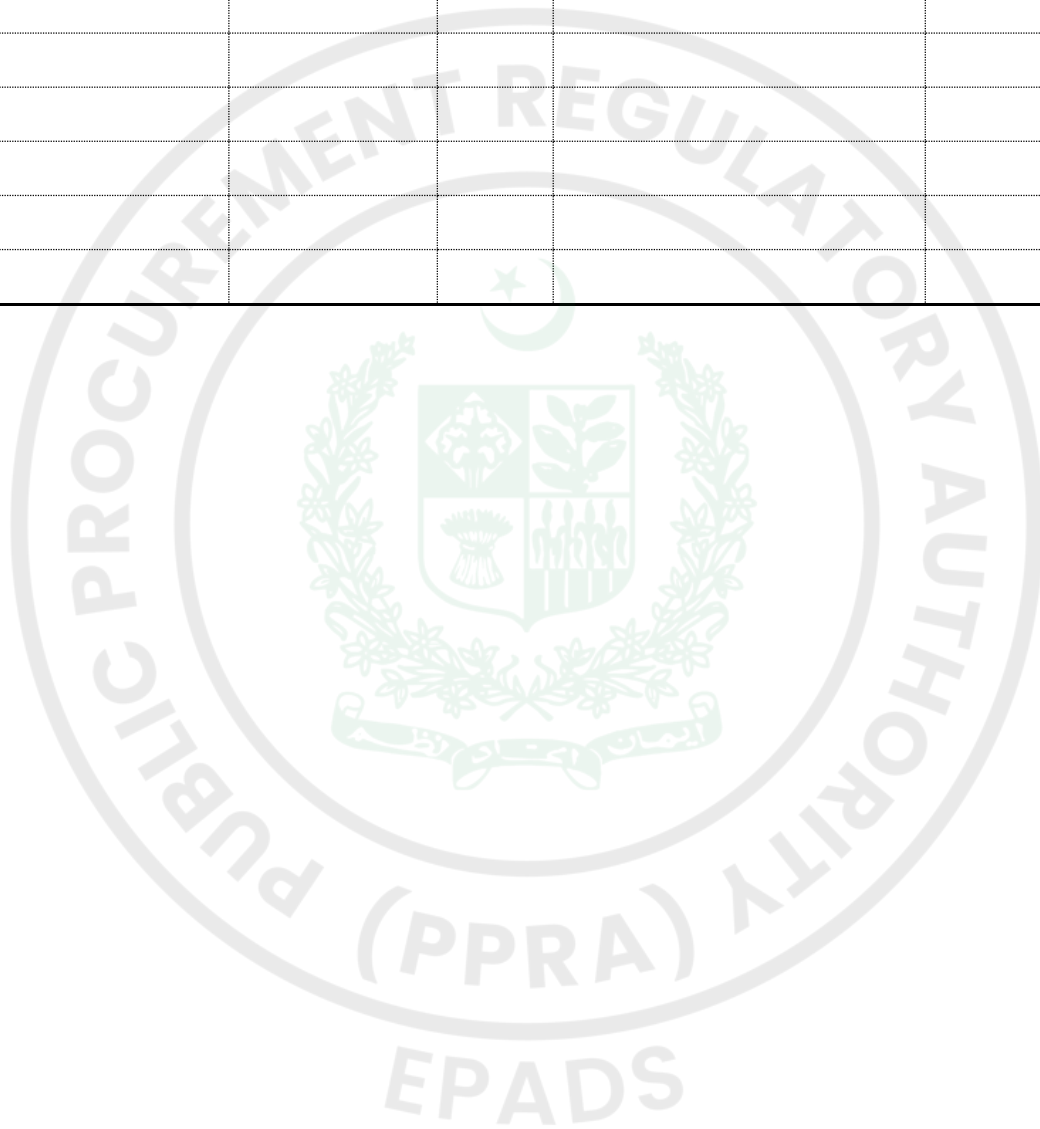


## Additional Forms and Documents

## Past Experience / Contracts

Contracts over *[insert amount]* during the last three years:

Procuring Agency	Value	Year	Goods/Services Supplied	Country of Destination



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

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

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

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

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

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

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

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

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

## Current Contract Commitments / Contracts in Progress Form

1. Name of Contract(s)
2. Procuring Agency Contact Information [insert address, telephone, fax, e-mail address]
3. Value of outstanding contracts [current PKR equivalent]
4. Estimated Delivery Date
5. Average monthly invoices over the last six months (PKR/mon.)

## Financial Situation and Performance

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

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

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

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

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

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

### 1. Financial data

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

\* Refer ITA 14 for the exchange rate

### 3. Financial documents

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

- (a) reflect the financial situation of the Applicant or in case of JV member, and not an affiliated entity (such as parent company or group member).
  - (b) be independently audited or certified in accordance with local legislation.
  - (c) be complete, including all notes to the financial statements.
  - (d) correspond to accounting periods already completed and audited.
- Attached are copies of financial statements<sup>1</sup> for the *[number]* years required above; and complying with the requirements.

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

## Average Annual Turnover (Annual Sales Value)

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

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

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

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

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

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

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

\* Refer ITA for date and source of exchange rate.

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