

Standard Bidding Document

PMU-18 / 2026-27 (Battery Bank and Battery Charger
(Goods)

National

Single Stage-One Envelope

CORRIGENDUM # 1	CORR-P99553-001
Initiation Date	September 04, 2026



September 04, 2026

*Chief Engineer (Dev) PMU (Manager (Proc) PMU), Chief Engineer (Dev) PMU
Office of Chief Engineer development PMU PESCO Head Quarter WAPDA House Shami Road Peshawar
Phone: +92-370-134-0196, Email: pmupesco@gmail.com*

Table of Contents

REQUEST FOR BIDS	1
Instructions to Bidders	3
Bid Data Sheet	65
Bids Data Sheet (BDS)	24
Eligibility Criteria	65
Evaluation Criteria	32
Items/Lots	33
Related Services of Goods:	34
Items/Lot Specification	35
Price Schedule	36
General Conditions of Contract	38
Special Conditions of Contract	48
Bid Securing Declaration	54
Contract Form	56
Integrity Pact	59
Performance Guarantee Form	61
Annexure	64
Eligibility Criteria	65
Bid Data Sheet	65
Bid Forms	65
Technical Data	65

Special conditions	65
Battery Charger WAPDA/NGC specifications	65
Procurement Forms	67
Past Experience and Completed Contracts	1
Historical Contract Non-Performance, and Pending Litigation and Litigation History	1
Current Contracts and Their Progress	1
Financial Capacity and Net Worth Evaluation Form	1
Average Annual Turnover	1
Additional Forms and Documents	70

REQUEST FOR BIDS

PROCUREMENT OF GOODS

1. The **Chief Engineer (Dev) PMU (Manager (Proc) PMU)** has reserved Funds for the procurement planned for FY **2026-27**. The **Chief Engineer (Dev) PMU (Manager (Proc) PMU)** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the "**PMU-18 / 2026-27 (Battery Bank and Battery Charger**" with the reference of "**P99553**"
2. The **Chief Engineer (Dev) PMU (Manager (Proc) PMU)** invites sealed Bids from eligible Bidders for procurement of goods described in the bidding documents on **EPADS v2.0**.
3. **Single Stage-One 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 **Call at Deposit, Bank Guarantee** or all bids must be accompanied by bid securing declaration in the format specified in the Bidding documents
5. E-Bidding documents, containing detailed terms & conditions, specifications and requirements etc. are available on **e-Pak Acquisition and Disposal System (EPADS)** at **<https://epads.gov.pk/opportunities/federal/procurements/99553>** for all the interested bidders registered on **EPADS v2.0**. Bidders are required to get themselves registered on **EPADS v2.0** to participate in Bidding process.
6. The e-bids, prepared in accordance with the instructions in the e-Bidding Documents, must be submitted through **EPADS v2.0** on or before **Friday, September 18, 2026 10:00 AM**. E-bids will be opened using **EPADS v2.0** on the same day at **Friday, September 18, 2026 10:30 AM**. 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>

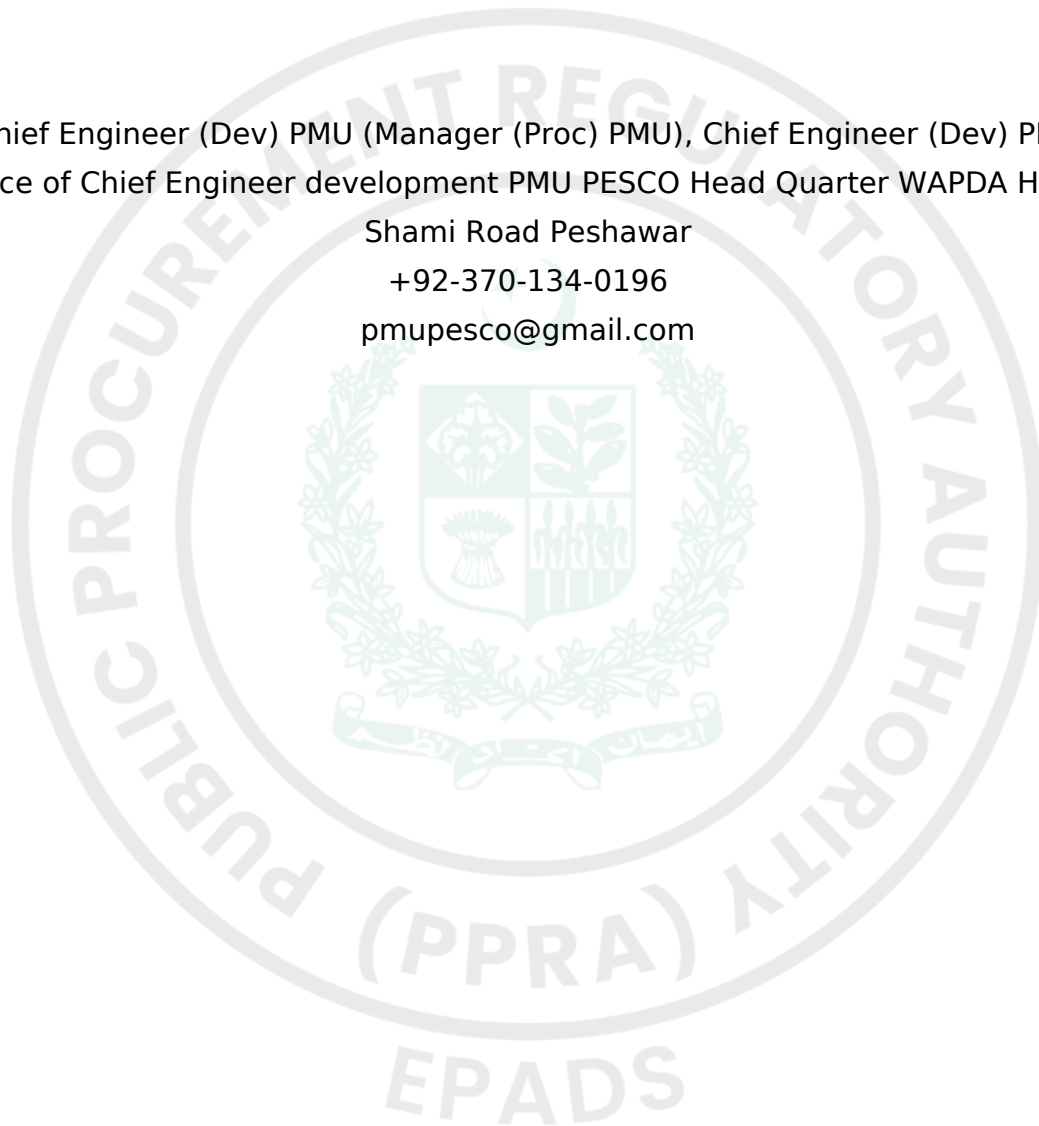
In terms of Rule 48 of Public Procurement Rules, 2004 Grievance Redressal Committee (GRC) is notified for the subject procurement and notification copy is available on the procuring agency's website and on Authority's website at (www.ppra.org.pk).

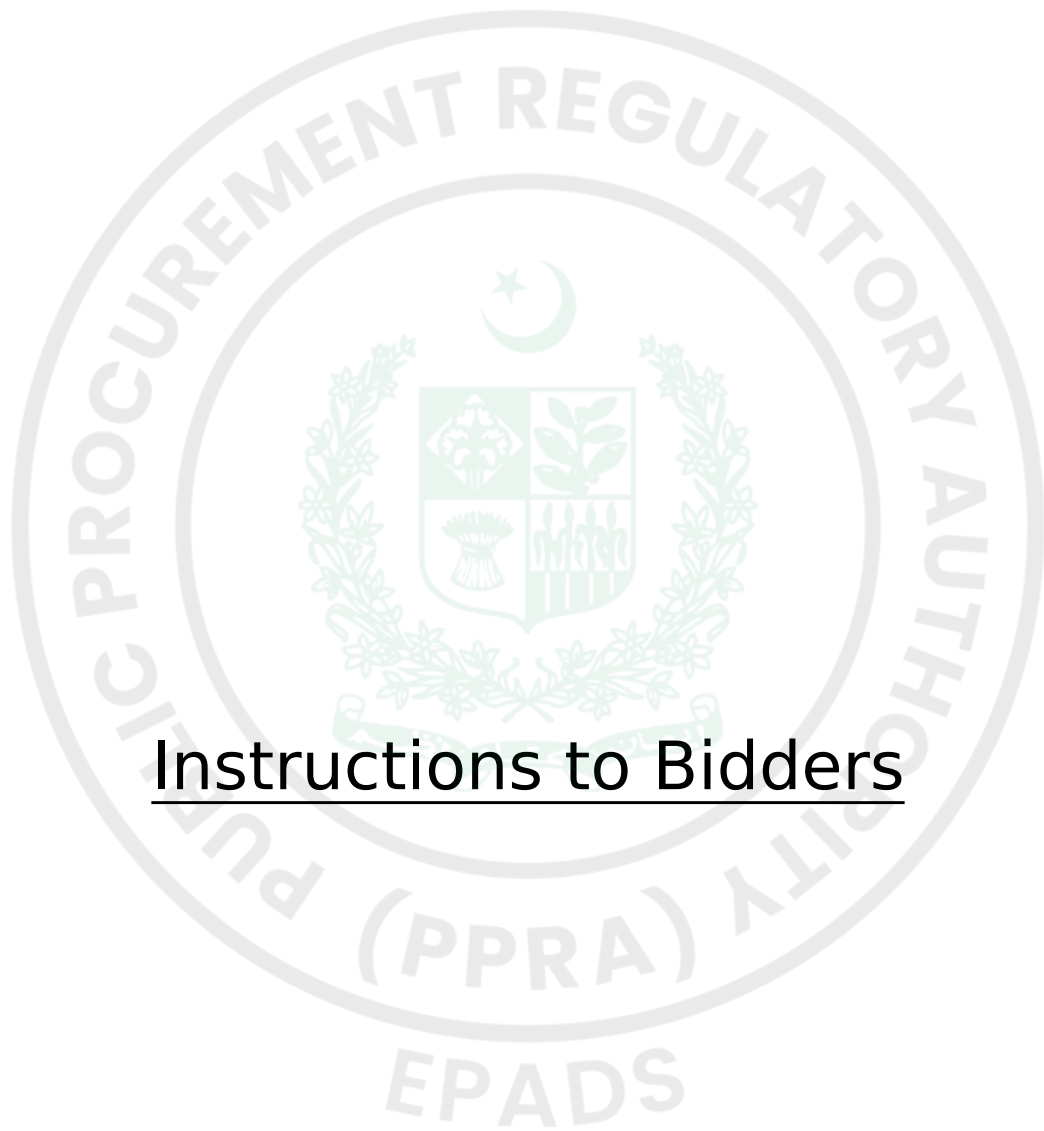
Chief Engineer (Dev) PMU (Manager (Proc) PMU), Chief Engineer (Dev) PMU
Office of Chief Engineer development PMU PESCO Head Quarter WAPDA House

Shami Road Peshawar

+92-370-134-0196

pmupesco@gmail.com





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:

- a. the expiry of the Bid Security;
- b. 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;
- c. the rejection by the Procuring Agency of all Bids;
- d. 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:

- a. if a Bidder:
- b. 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
- c. does not accept the correction of errors; or
- d. in the case of a successful Bidder, if the Bidder fails:
- e. to sign the contract; or
- f. 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.

25.3 A 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 Evaluation Criteria 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.

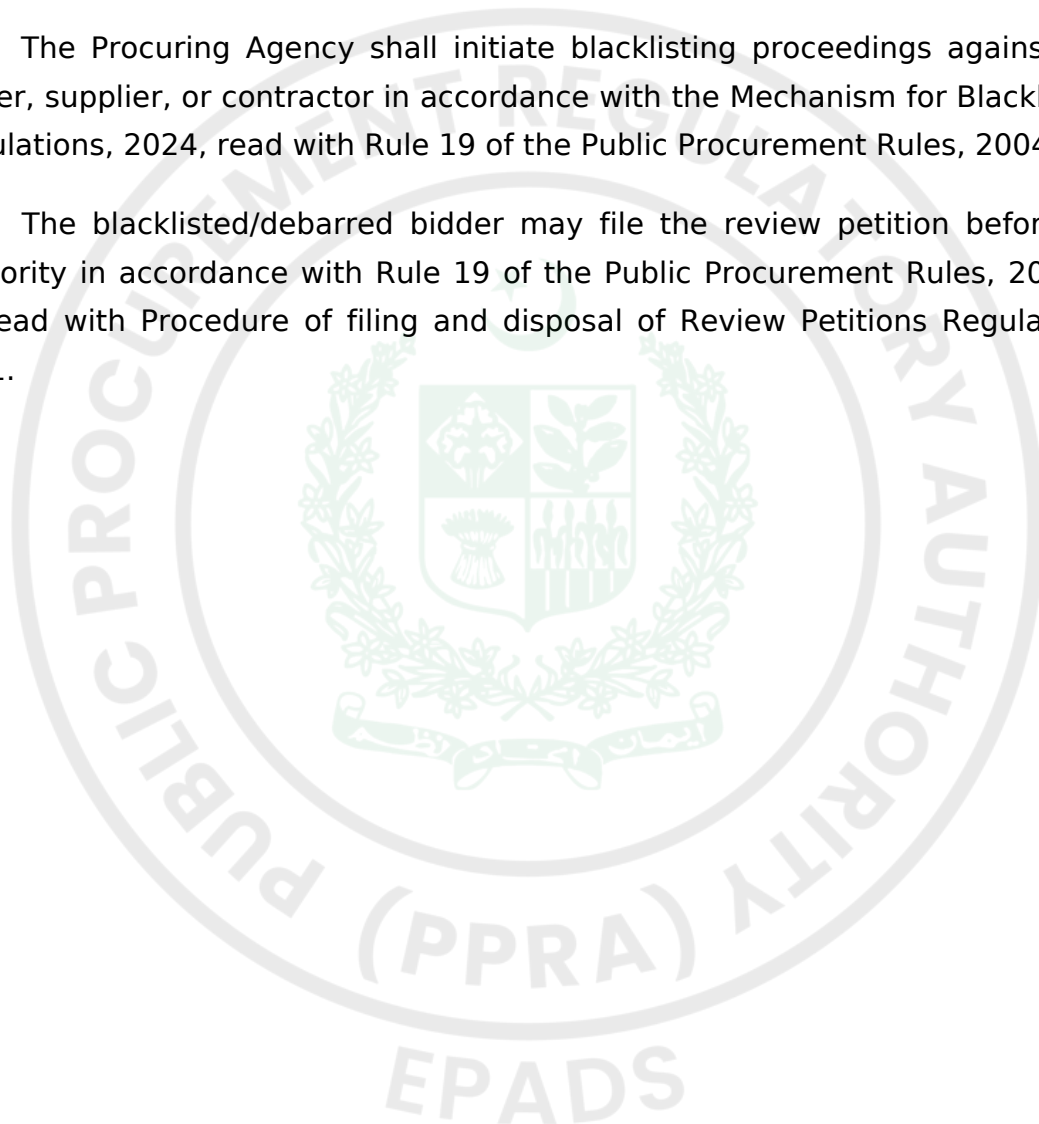
40.2 In case if any party or the bidder is not satisfied with the decision of the GRC or if it fails to decide within ten days, the bidder or the party may file an appeal before the Appellate Committee of the Authority in accordance with Rule 48 of the Public Procurement Rules, 2004 to be read with Redressal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

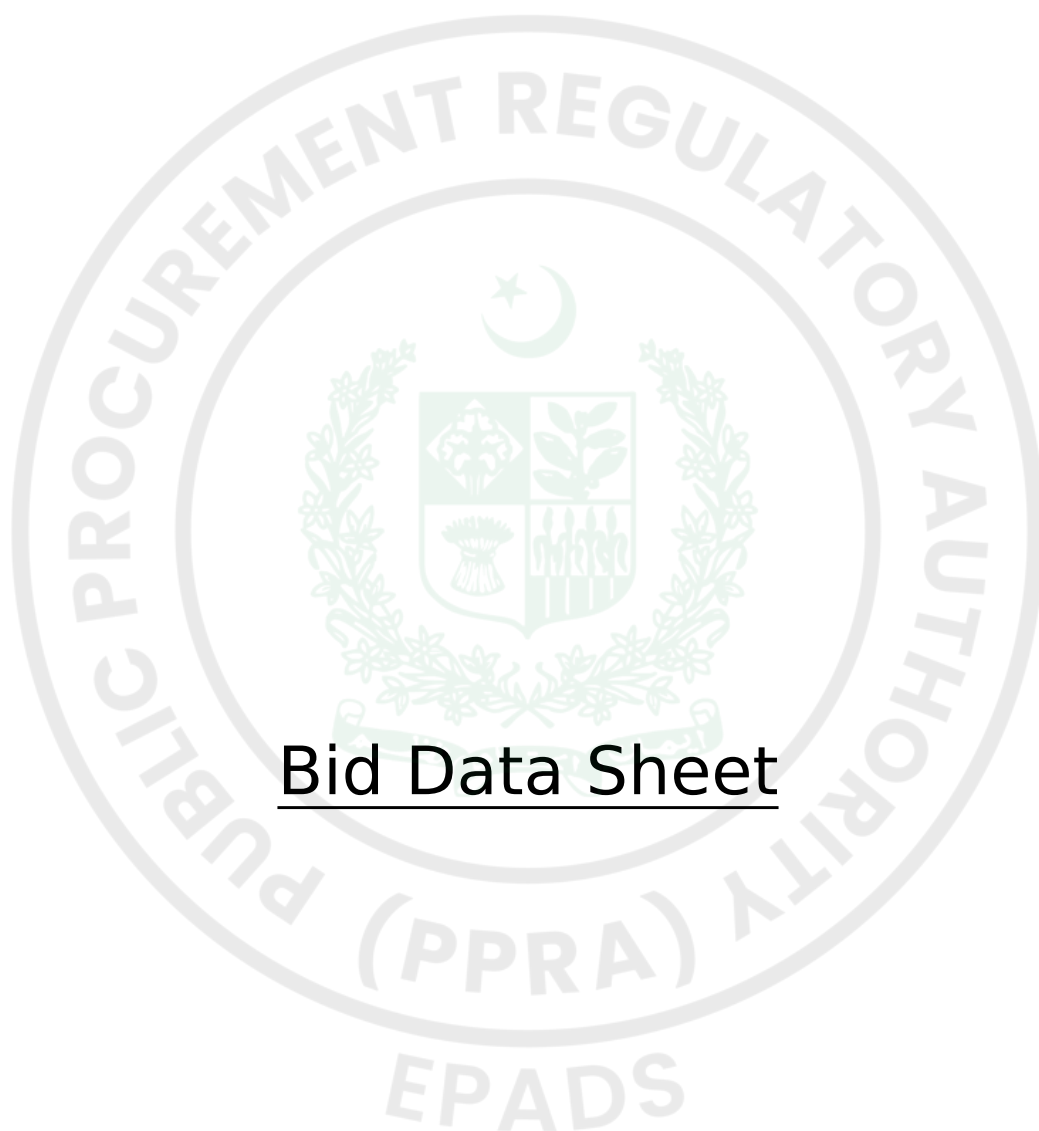
G. Mechanism of Blacklisting

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: **Chief Engineer (Dev) PMU (Manager (Proc) PMU)**

The subject of procurement is: **PMU-18 / 2026-27 (Battery Bank and Battery Charger**

Expected commencement date: **Wednesday, December 16, 2026**

BDS Clause Number 2

ITB Number 2.1

Financial year for the operations of the Procuring Agency: **2026-27**

Name and identification number of the Contract: **P99553**

BDS Clause Number 3

ITB Clause Number 3.1

JV/Consortium or Association Allowed: **Yes**

Number of JV/Consortium Members: **2**

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: Friday, September 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:

1. In addition to the documents stated in ITB 11, the following documents must be included with the Bid a. Letter of Bid – Technical Proposal b. Bidder Information Form c. Bidder JV Members Information Form in case of JV d. Form of Bid Securing Declaration e. Delivery and Completion Schedule f. Schedule of Technical Data g. Schedule of Deviations from Technical provisions h. Integrity Pact i. Details of Pending Litigation on prescribed Form j. Manufacturer's Authorization
2. k. Original Fixed Bid Security (Bid Bond) l. Bidder's/ Manufacturer's experience of supply record m. Bidder's/ Manufacturer's Performance record n. Bidder/JV has to attach "certificate of Quality and standards" on its letter head that offered Material shall be strictly as per WAPDA/NGC/IEC Standards (amended to date)
3. p. Financial Statements as per Bid requirements q. Annual average Turnover over Data of last three years equal to or more PKR. 2,000,000/- for Battery Bank 110 V and PKR300,000/- for Battery Charger. r. Schedule of prices in respect of the equipment s. Affidavit as per PESCO Procurement and Contract Policy Manual 2021.
4. Other procurement specific documentation Requirements are: 1. Valid Type Test/ Prototype Reports where applicable as per NGC/WAPDA/PPMC/PESCO Specification (Amended to date) 2. Manufacturing/ Operational Experience

BDS Clause Number 6

ITB Number 11.1

Items/Lots and therrre related documents:

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: **90 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: **Call at Deposit, Bank Guarantee**

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;

Office of Chief Engineer development PMU PESCO Head Quarter WAPDA House Shami Road Peshawar before bid submission deadline.

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

The deadline for Bids submission is: **Friday, September 18, 2026 10:00 AM**

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 : **Friday**

Date: **Friday, September 18, 2026**

Time : **10:30 AM**

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	FBR (NTN)
Sole Proprietorship	FBR (GSTN)
Partnership Firm	
Company (Private Limited)	
Company (Public Limited)	
Company (Holding Company)	
Company (Limited by Guarantee)	
State Owned Enterprise (Private Limited)	
State Owned Enterprise (Public Limited)	

Eligibility Criteria	Document
The qualification criteria required from Bidders in ITB 13.3(b) is modified as follows: a) To be qualified for award, the Bidder shall meet the experience, capability and adequacy of resources as per criteria delineated herein below:	Yes

experience of 100% of the tendered quantity of similar material, having similar or higher rating, supplied to DISCOs/NGC/PPMC/WAPDA/ GENCOs during the last five (05) years, under either a single contract or multiple contracts. Details in this regard should be submitted in the prescribed format given in standard forms of Bidding documents.	Yes
The Bidder shall submit with the bid evidence duly stamped in this regard including inter alia copies (with English translation) of the contract agreement(s) and completion certificate(s)/delivery document(s) (bills of lading, inspection certificates etc.) for the contract(s). In case of JV, at least any one partner should fulfill the above mentioned experience pertaining to the individual's obligation (s) in respect of manufacturing or supplying as per JV agreement between the parties.	Yes
2. Manufacturing Experience Criteria The manufacturer must have at least 5 years' manufacturing experience of tendered material having similar or higher rating. Details in this regard should be submitted in the prescribed format given in standard forms of Bidding documents.	Yes
The Bidder/manufacturer shall submit with the bid, copies (with English translation) of the contract agreement(s) and completion certificate(s)/delivery document(s) (bill(s) of lading, inspection certificate(s) etc.), duly notarized, for the contract(s). The Bidder is required to include with its Bid, documentation from the manufacturer of the goods, that it has been duly authorized to deliver, in Pakistan, the goods indicated in its Bid (In case the Bidder is not a Manufacturer).	Yes
i. The offered material by the Bidder/Manufacturer/JV should have been in satisfactory operation for a continuous period of at least three years in any DISCO/NGC/WAPDA/GENCO prior to deadline for submission of Bids.	Yes
ii. In above context, at least two (02) satisfactory operational certificates shall be submitted with the bid from the end user(s) i.e. DISCOs/NGC/WAPDA/GENCOs. of offered equipment/goods. The submitted operational certificate must indicate the name of the end user/client along with its contact address, phone numbers, fax numbers, web-site and e-mail addresses	Yes

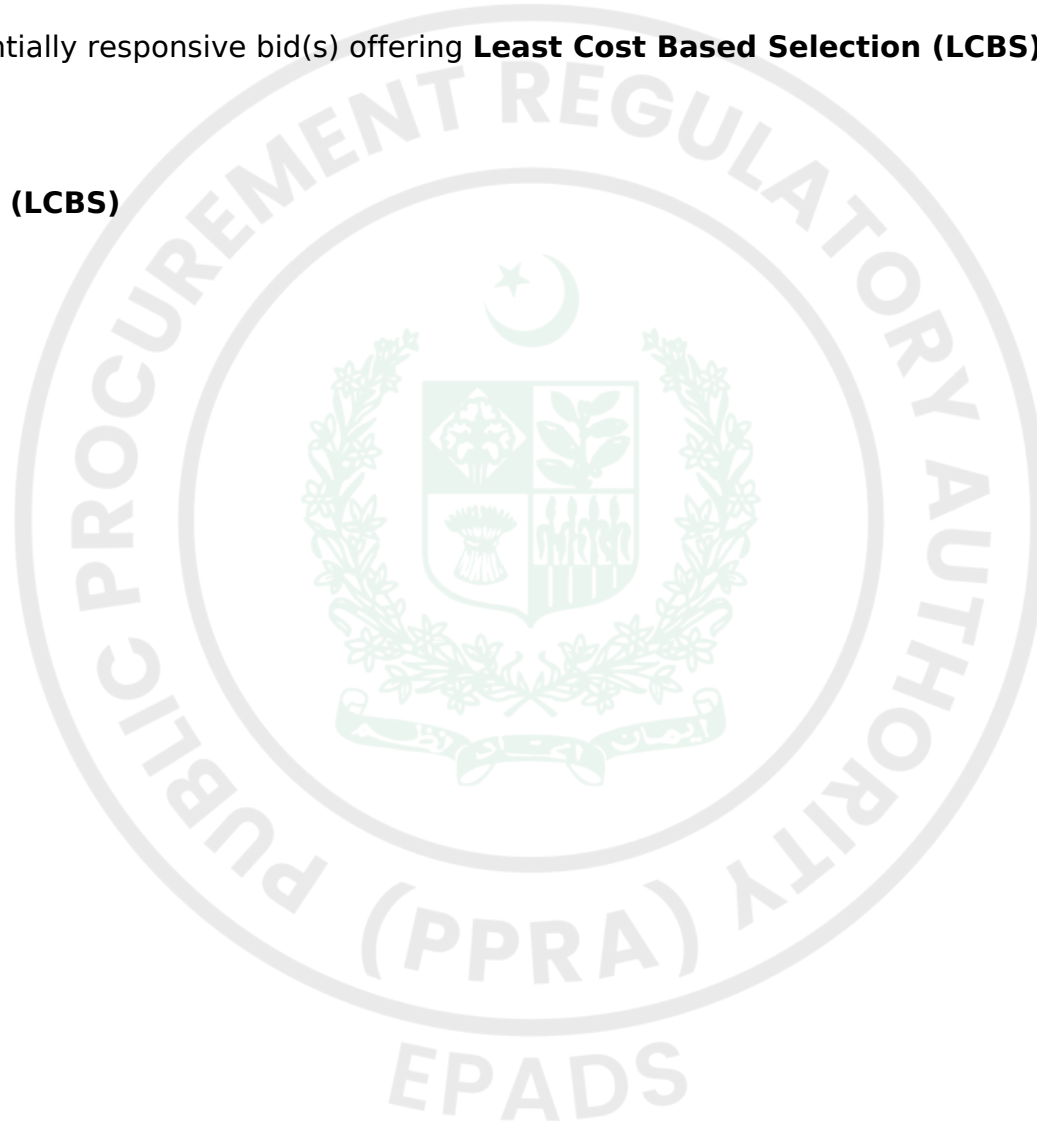
The bidder must also submit with the bid the copies of contract agreements along with performance certificates (along with translation in English if original is in different language) for these supplies. Further, the summary of operational experience be provided as per standard forms of Bidding documents.	Yes
4. Supply Capacity The manufacturer shall provide the following information with the Bid to establish its capacity/capability to execute the order. i. Manufacturing Capacity ii. Orders in hand iii. Expected orders in pipe line iv. Implementation schedule of the orders in hand The manufacturing capacity of the Bidder should be at least equal to the sum of orders in hand, expected orders in pipeline and this order (if placed on it).	Yes
5. Financial Criteria of the Bidder The Purchaser will take into account the following criteria to verify the financial qualification of the Bidder. i. The Bidder has an average annual, turnover in the last three years equal to or more than PKR. 2,000,000/- for Battery Bank 110 V and PKR300,000/- for Battery Charger.	Yes
The bidder's net worth calculated as a difference between total assets and total liabilities must be positive for last three years and must be submitted with the bid. (Information to be submitted in standard forms of Bidding documents.	Yes
ii. In case of JV the (leading partner minimum 50% of AATO & remaining of other partner) has to have an average Annual Turnover in the last 3 years equal to or more than PKR. 2,000,000/- for Battery Bank 110 V and PKR300,000/- for Battery Charger	Yes
6.Blacklisting and Debarment Certificate Bidder/tenderer will submit a certificate that the firm is Not blacklisted/ debarred by WAPDA/ DISCOs/ GENCOs/ NGC as per PPRA rules at present.	Yes
The Qualification of the Bidders will be based on meeting the minimum pass/fail criteria as demonstrated by the Bidders' responses in the respective Appendices. The above stated requirements are a minimum and the Purchaser reserves the right to request for any additional information.	Yes

The Purchaser also reserves the right to reject the proposal of any Bidder, if in the opinion of the Purchaser the qualification details are incomplete, ambiguous or the Bidder is found not qualified to satisfactorily perform the Contract. The above stated Appendices should be completed as per prescribed format and submitted along with required attachments.	Yes
The missing or incomplete information/documents render the bid substantially non-responsive. In this regard, the Purchaser does not have an obligation to request any document/certificates. The bidder is required to include with its Bid, documentation from the manufacturer of the goods that it has been duly authorized to deliver, in Pakistan, the goods indicated in its Bid in case of the Bidder is not Manufacturer.	Yes
7. TYPE TESTS/ PROTOTYPE I. The supplier shall supply valid type test reports from an independent testing laboratory accredited by STL or Any other reputed / recognized laboratory acceptable to NGC/WAPDA/ PESCO/PPMC with the bid for equipment offered as per NGC Type Testing Policy (Amended to date) and the non-provision of valid type test, the Bidder will be declared as Non-responsive.	Yes

Evaluation Criteria

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

Least Cost Based Selection (LCBS)



Items/Lots

Items Without Lots :

Item	UNSPSC	Delivery Schedule	Quantity	Bid Security	Manufacturer / Dealer Authorization	Warranty
Battery Bank (110V)	Product specific battery packs	Address: PESCO GSC Warehouse Jamrud Road, Hayatabad Peshawar Schedule: 90 Days Quantity: 1/set	1/set	40000 PKR	Manufacturer Authorization form	2 Years
Battery Charger	Battery chargers	Address: PESCO GSC Warehouse Jamrud Road, Hayatabad Peshawar Schedule: 90 Days Quantity: 1/Qty	1/Qty	6000 PKR	Manufacturer Authorization form	2 Years

Related Services of Goods:

No



Items/Lot Specification

Items Without Lots :

Item: Battery Bank (110V)

UNSPSC: Product specific battery packs

Specifications / Requirementss:

WAPDA/NGC specifications (Amended to date)

Item: Battery Charger

UNSPSC: Battery chargers

Specifications / Requirementss:

WAPDA/NGC relevant specification (Amended to date)

Price Schedule

For Individual Items

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

For Lots

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





General Conditions of Contract

A. General

1. Definitions

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

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

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

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

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

2. Application and Interpretation

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

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

3. Applicable Law

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

4. Governing Language

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

5. Notices

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

6. Delivery/Location

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

7. Authorized Representatives / Authority of Member in charge

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

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

8. Effectiveness of Contract

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

9. Commencement of Services

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

10. Program

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

11. Starting Date/Expiration Date

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

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

12. Entire Agreement

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

13. Modification

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

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

14. Force Majeure

14.1 Definition

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

14.2 No Breach of Contract

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

14.3 Extension of Time

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

of Force Majeure.

14.4 Payments

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

15. Termination

15.1 By the Procuring Agency

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

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

15.2 By the Bidder

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

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

C. Obligations of the Bidder

16. General

16.1 Standard of Performance

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

16.2 Law Applicable to Goods

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

17. Conflict of Interests

17.1 Bidder Not to Benefit from Commissions and Discounts.

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

17.2 Bidder and Affiliates Not to be Otherwise Interested in Project

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

17.3 Prohibition of Conflicting Activities

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

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

18. Confidentiality

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

19. Insurance to be Taken Out by the Bidder

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

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

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

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

21. Reporting Obligations

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

22. Liquidated Damages

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

22.2 Correction for Over-payment

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

22.3 Lack of performance penalty

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

23. Performance Guarantee

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

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

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

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

24. Fraud and Corruption

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

25. Sustainable Procurement

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

D. Bidder's Personnel

26. Description of Personnel

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

27. Removal and/or Replacement of Personnel

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

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

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

E. Obligations of the Procuring Agency

28. Assistance and Exemptions

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

29. Change in the Applicable Law

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

30. Services and Facilities

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

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

F. Payments to the Bidder

31. Contract Price

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

32. Terms and Conditions of Payment

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

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

33. Currency of Payment

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

G. Quality Control

34. Identifying Defects

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

35. Correction of Defects, and

Lack of Performance Penalty

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

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

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

36. Taxes and Duties

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

H. Settlement of Disputes

37. Alternate Dispute Resolution

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

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

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



Special Conditions of Contract

SECTION VIII. SPECIAL CONDITIONS OF CONTRACT

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

Number of GC Clause

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

Number of GC Clause 1

Definitions

The Procuring Agency is: Chief Engineer (Dev) PMU (Manager (Proc) PMU), Chief Engineer (Dev) PMU Office of Chief Engineer development PMU PESCO Head Quarter WAPDA House Shami Road Peshawar

The Supplier is:

The title of the subject procurement is: PMU-18 / 2026-27 (Battery Bank and Battery Charger

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:

Chief Engineer (Dev) PMU (Manager (Proc) PMU), Chief Engineer (Dev) PMU
Office of Chief Engineer development PMU PESCO Head Quarter WAPDA House Shami Road Peshawar
+92-370-134-0196
pmupesco@gmail.com

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:

Chief Engineer (Dev) PMU (Manager (Proc) PMU), Chief Engineer (Dev) PMU
Office of Chief Engineer development PMU PESCO Head Quarter WAPDA House Shami Road Peshawar
+92-370-134-0196
pmupesco@gmail.com

For the Bidder:

Name:

Designation:

Address:

Number of GC Clause 8

Effectiveness of the contract

Number of GC Clause 9

Commencement of Contract:

Number of GC Clause 11.2

Expiration of Contract:

Number of GC Clause 15

Termination

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

Number of GC Clause 17

Conflict of Interest:

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

Number of GC Clause 22

Liquidated Damages

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

Authority.

Number of GC Clause 23

Performance Guarantee:

The amount of performance guarantee shall be **10.00%** of the contract price in acceptable form of **Call at Deposit, Bank Guarantee**

Number of GC Clause 32

Payment terms:

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

Number of GC Clause 33

Currency of Payment:

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

Number of GC Clause 34

Identifying Defects:

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

Inspections & Tests Requirements

For being Brand New, bearing relevant reference numbers of the equipment (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

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

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

Rules of procedure for arbitration proceedings:

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

Place of Arbitration and Award:

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





Bid Securing Declaration

Form 9: Bid Securing Declaration

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

Bid No.: **P99553**

To: **Chief Engineer (Dev) PMU (Manager (Proc) PMU), Chief Engineer (Dev) PMU Office of Chief Engineer development PMU PESCO Head Quarter WAPDA House Shami Road Peshawar**

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 **Chief Engineer (Dev) PMU (Manager (Proc) PMU), Chief Engineer (Dev) PMU Office of Chief Engineer development PMU PESCO Head Quarter WAPDA House Shami Road Peshawar**

(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., **PMU-18 / 2026-27 (Battery Bank and Battery Charger (P99553))** 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.

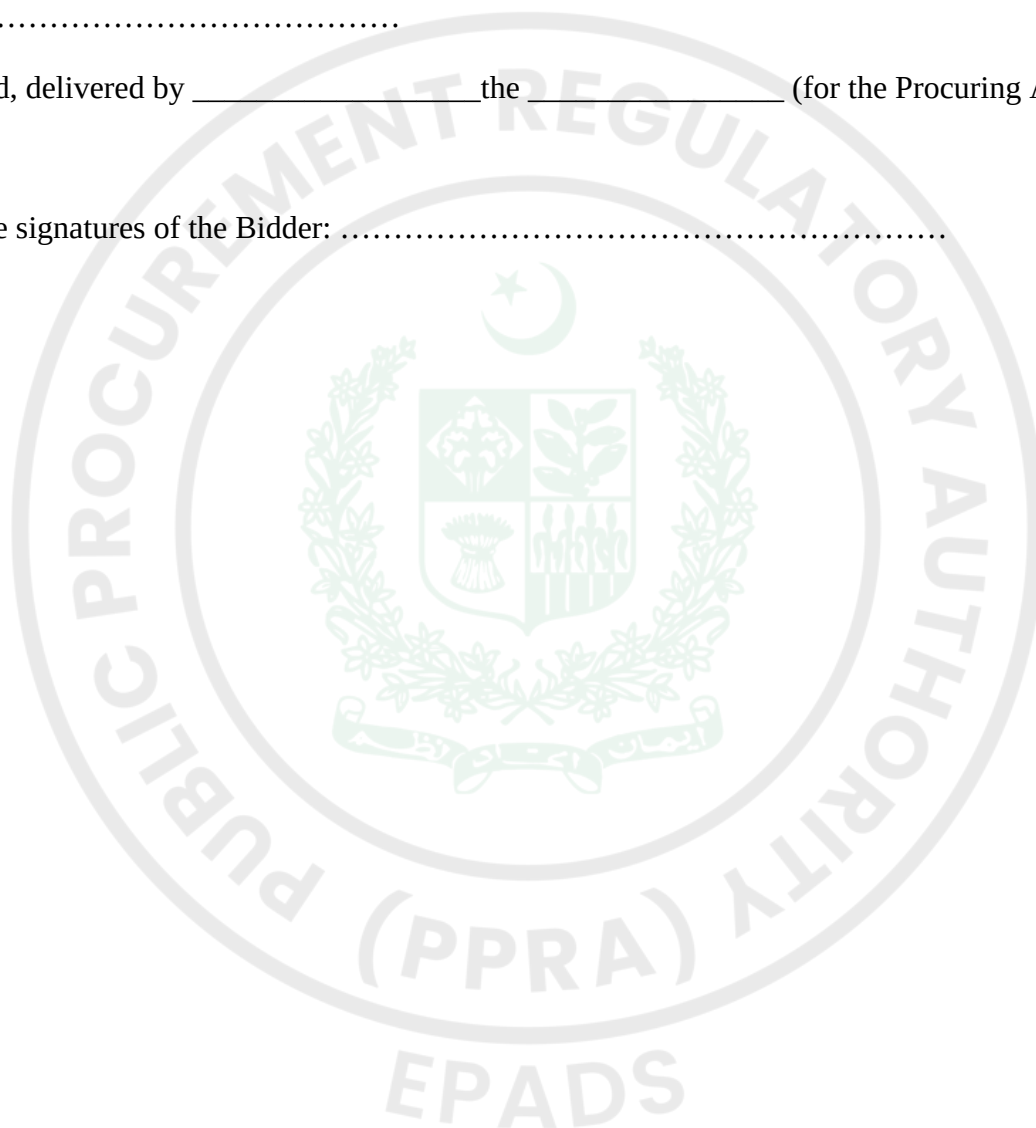
Signed, sealed, delivered by _____ the _____ (for the Procuring Agency)

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: **Chief Engineer (Dev) PMU (Manager (Proc) PMU), Chief Engineer (Dev) PMU Office of Chief Engineer development PMU PESCO Head Quarter WAPDA House Shami Road Peshawar**

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

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

AND WHEREAS we have agreed to give the Bidders guarantee:

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

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

Signature and seal of the Guarantors

[name of bank or financial institution]

[address]

[date]





Annexure

Eligibility Criteria

Information (Read-Only)

See Form Under Additional Forms and Documents: **Eligibility Criteria** (page number: 71)

Bid Data Sheet

Information (Read-Only)

See Form Under Additional Forms and Documents: **Bid Data Sheet** (page number: 74)

Bid Forms

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Bid Forms** (page number: 89)

Technical Data

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Technical Data** (page number: 110)

Special conditions

Information (Read-Only)

See Form Under Additional Forms and Documents: **Special conditions** (page number: 116)

Battery Charger WAPDA/NGC specifications

Information (Read-Only)

See Form Under Additional Forms and Documents: **Battery Charger WAPDA/NGC specifications** (page number: 125)





Procurement Forms

Past Experience and Completed Contracts

See Form Under Additional Forms and Documents: **Past Experience and Completed Contracts** (page number: 150)

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: 151)

Current Contracts and Their Progress

See Form Under Additional Forms and Documents: **Current Contracts and Their Progress** (page number: 153)

Financial Capacity and Net Worth Evaluation Form

See Form Under Additional Forms and Documents: **Financial Capacity and Net Worth Evaluation Form** (page number: 154)

Average Annual Turnover

See Form Under Additional Forms and Documents: **Average Annual Turnover** (page number: 156)





Additional Forms and Documents

10.	13.3 (b)	The qualification criteria required from Bidders in ITB 13.3(b) is modified as follows: a) To be qualified for award, the Bidder shall meet the experience, capability and adequacy of resources as per criteria delineated herein below: 1. <u>Contractual Experience Criteria</u> experience of 100% of the tendered quantity of similar material, having similar or higher rating, supplied to DISCOs/NGC/PPMC/WAPDA/ GENCOs during the last five (05) years, under either a single contract or multiple contracts. Details in this regard should be submitted in the prescribed format given in standard forms of Bidding documents. The Bidder shall submit with the bid evidence duly stamped in this regard including inter alia copies (with English translation) of the contract agreement(s) and completion certificate(s)/delivery document(s) (bills of lading, inspection certificates etc.) for the contract(s). In case of JV, at least any one partner should fulfill the above mentioned experience pertaining to the individual's obligation (s) in respect of manufacturing or supplying as per JV agreement between the parties. 2. <u>Manufacturing Experience Criteria</u> The manufacturer must have at least 5 years' manufacturing experience of tendered material having similar or higher rating. Details in this regard should be submitted in the prescribed format given in standard forms of Bidding documents. The Bidder/manufacturer shall submit with the bid, copies (with English translation) of the contract agreement(s) and completion certificate(s)/delivery document(s) (bill(s) of lading, inspection certificate(s) etc.), duly notarized, for the contract(s). The Bidder is required to include with its Bid, documentation from the manufacturer of the goods, that it has been duly authorized to deliver, in Pakistan, the goods indicated in its Bid (In case the Bidder is not a Manufacturer). 3. <u>Performance Criteria</u> i. The offered material by the Bidder/Manufacturer/JV should have been in satisfactory operation for a continuous period of at least three years in any DISCO/NGC/WAPDA/GENCO prior to deadline for submission of Bids. ii. In above context, at least two (02) satisfactory operational certificates shall be submitted with the bid from the end user(s) i.e. DISCOs/NGC/WAPDA/GENCOs. of offered equipment/goods. The submitted operational certificate must indicate the name of the end user/client along with its contact address, phone numbers, fax numbers, web-site and e-mail addresses. The bidder must also submit with the bid the copies of contract agreements along with performance certificates (along with translation in English if original is in different language) for these
-----	----------	--

		supplies. Further, the summary of operational experience be provided as per standard forms of Bidding documents. 4. <u>Supply Capacity</u> The manufacturer shall provide the following information with the Bid to establish its capacity/capability to execute the order. - Manufacturing Capacity - Orders in hand - Expected orders in pipe line - Implementation schedule of the orders in hand The manufacturing capacity of the Bidder should be at least equal to the sum of orders in hand, expected orders in pipeline and this order (if placed on it). 5. <u>Financial Criteria of the Bidder</u> The Purchaser will take into account the following criteria to verify the financial qualification of the Bidder. - The Bidder has an average annual, turnover in the last three years equal to or more than Rs. 1.00 Million. The bidder's net worth calculated as a difference between total assets and total liabilities must be positive for last three years and must be submitted with the bid. (Information to be submitted in standard forms of Bidding documents. - In case of JV the (leading partner minimum 50% of AATO & remaining of other partner) has to have an average Annual Turnover in the last 3 years equal to or more than Rs. 1.00 Million.
--	--	---

		6. <u>Blacklisting and Debarment Certificate</u> Bidder/tenderer will submit a certificate that the firm is Not blacklisted/ debarred by WAPDA/ DISCOs/ GENCOs/ NGC as per PPRA rules at present. The Qualification of the Bidders will be based on meeting the minimum pass/fail criteria as demonstrated by the Bidders' responses in the respective Appendices. The above stated requirements are a minimum and the Purchaser reserves the right to request for any additional information. The Purchaser also reserves the right to reject the proposal of any Bidder, if in the opinion of the Purchaser the qualification details are incomplete, ambiguous or the Bidder is found not qualified to satisfactorily perform the Contract. The above stated Appendices should be completed as per prescribed format and submitted along with required attachments. The missing or incomplete information/documents render the bid substantially non-responsive. In this regard, the Purchaser does not have an obligation to request any document/certificates. The bidder is required to include with its Bid, documentation from the manufacturer of the goods that it has been duly authorized to deliver, in Pakistan, the goods indicated in its Bid in case of the Bidder is not Manufacturer.
--	--	---

SECTION III: BID DATA SHEET



Bid Data Sheet (BDS)

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

BDS Clause Number	ITB Number	Amendments of, and Supplements to, Clauses in the Instruction to Bidders
A. Introduction		
1.	1.1	Name of Procuring Agency: PESHAWAR ELECTRIC SUPPLY COMPANY LIMITED (PESCO) The subject of procurement is: As provided on EPADS Period for delivery of goods: 90 days from the issuance of PO
2	2.1 & 2.2	Financial year for the operations of the Procuring Agency: 2026-27 Name of Project: as specified on EPADS Name of financing institution: PESCO Name and identification number of the Contract: As provided on EPADS
3.	3.1	Maximum number of members in the joint venture, consortium or association shall be: 02 (Two) Numbers
4.	4.1	Ineligible country(s) are India and Israel/Notified by GOP
	4.5	Demonstration of authorization by manufacturer: Required

B. Bidding Documents

5.	7.2	The number of documents to be completed
6.	8.1	The address for clarification of Bidding Documents is Peshawar Electric Supply Company (PESCO) Office of Chief Engineer (Dev.) PMU PESCO Peshawar, PESCO H/Q, Shami Road Peshawar Tel No.091-9211757, Email. pmupesco@gmail.com
	8.5	No Pre-bid meetings will be conducted. However, clarifications can be sought from Chief Engineer (Dev.) PMU PESCO not later than 07 days before the bid opening date.

C. Preparation of Bids

7.	10.1	The Language of all correspondences and documents related to the Bid is: English
8.	11.1(b)	Detail of sample(s) to be submitted with the Bid are: N/A
	11.1 (h)	In addition to the documents stated in ITB 11 , the following documents must be included with the Bid a. Letter of Bid – Technical Proposal b. Bidder Information Form c. Bidder JV Members Information Form in case of JV d. Form of Bid Securing Declaration e. Delivery and Completion Schedule f. Schedule of Technical Data g. Schedule of Deviations from Technical provisions h. Integrity Pact i. Details of Pending Litigation on prescribed Form j. Manufacturer's Authorization k. Original Fixed Bid Security (Bid Bond) l. Bidder's/ Manufacturer's experience of supply record m. Bidder's/ Manufacturer's Performance record n. Bidder/JV has to attach "certificate of Quality and standards" on its letter head that offered Material shall be strictly as per WAPDA/NGC/IEC Standards (amended to date) o. The Bidder will have attached a declaration on Bidder Letter head that the Bidder (in case the Bidder is also Manufacturer) or Bidder and Manufacturer Both (In case the Bidder is not Manufacturer) have not defaulted/failed to supply Material against any contract agreement/Purchase Orders in WAPDA/DISCOs/NGC. p. Financial Statements as per Bid requirements q. Annual average Turnover over Data of last three years equal to or more than Rs. 1.00 Million r. Schedule of prices in respect of the equipment s. Affidavit as per PESCO Procurement and Contract Policy Manual 2021.

9.	12.3 (c)	Other procurement specific documentation Requirements are: 1. Valid Type Test/ Prototype Reports where applicable as per NGC/WAPDA/PPMC/PESCO Specification (Amended to date) 2. Manufacturing/ Operational Experience
	12.4	Spare parts required for Number of years of operation if specified in NGC Specification (Amended to date)



10.	13.3 (b)	The qualification criteria required from Bidders in ITB 13.3(b) is modified as follows: a) To be qualified for award, the Bidder shall meet the experience, capability and adequacy of resources as per criteria delineated herein below: 1. <u>Contractual Experience Criteria</u> experience of 100% of the tendered quantity of similar material, having similar or higher rating, supplied to DISCOs/NGC/PPMC/WAPDA/ GENCOs during the last five (05) years, under either a single contract or multiple contracts. Details in this regard should be submitted in the prescribed format given in standard forms of Bidding documents. The Bidder shall submit with the bid evidence duly stamped in this regard including inter alia copies (with English translation) of the contract agreement(s) and completion certificate(s)/delivery document(s) (bills of lading, inspection certificates etc.) for the contract(s). In case of JV, at least any one partner should fulfill the above mentioned experience pertaining to the individual's obligation (s) in respect of manufacturing or supplying as per JV agreement between the parties. 2. <u>Manufacturing Experience Criteria</u> The manufacturer must have at least 5 years' manufacturing experience of tendered material having similar or higher rating. Details in this regard should be submitted in the prescribed format given in standard forms of Bidding documents. The Bidder/manufacturer shall submit with the bid, copies (with English translation) of the contract agreement(s) and completion certificate(s)/delivery document(s) (bill(s) of lading, inspection certificate(s) etc.), duly notarized, for the contract(s). The Bidder is required to include with its Bid, documentation from the manufacturer of the goods, that it has been duly authorized to deliver, in Pakistan, the goods indicated in its Bid (In case the Bidder is not a Manufacturer). 3. <u>Performance Criteria</u> i. The offered material by the Bidder/Manufacturer/JV should have been in satisfactory operation for a continuous period of at least three years in any DISCO/NGC/WAPDA/GENCO prior to deadline for submission of Bids. ii. In above context, at least two (02) satisfactory operational certificates shall be submitted with the bid from the end user(s) i.e. DISCOs/NGC/WAPDA/GENCOs. of offered equipment/goods. The submitted operational certificate must indicate the name of the end user/client along with its contact address, phone numbers, fax numbers, web-site and e-mail addresses. The bidder must also submit with the bid the copies of contract agreements along with performance certificates (along with translation in English if original is in different language) for these supplies. Further, the summary of operational experience be provided as per standard forms of Bidding documents. 4. <u>Supply Capacity</u> The manufacturer shall provide the following
-----	----------	---

		information with the Bid to establish its capacity/capability to execute the order. i. Manufacturing Capacity ii. Orders in hand iii. Expected orders in pipe line iv. Implementation schedule of the orders in hand The manufacturing capacity of the Bidder should be at least equal to the sum of orders in hand, expected orders in pipeline and this order (if placed on it). 5. <u>Financial Criteria of the Bidder</u> The Purchaser will take into account the following criteria to verify the financial qualification of the Bidder. i. The Bidder has an average annual, turnover in the last three years equal to or more than Rs. 1.00 Million The bidder's net worth calculated as a difference between total assets and total liabilities must be positive for last three years and must be submitted with the bid. (Information to be submitted in standard forms of Bidding documents. ii. In case of JV the (leading partner minimum 50% of AATO & remaining of other partner) has to have an average Annual Turnover in the last 3 years equal to or more than Rs. 1.00 Million
--	--	---

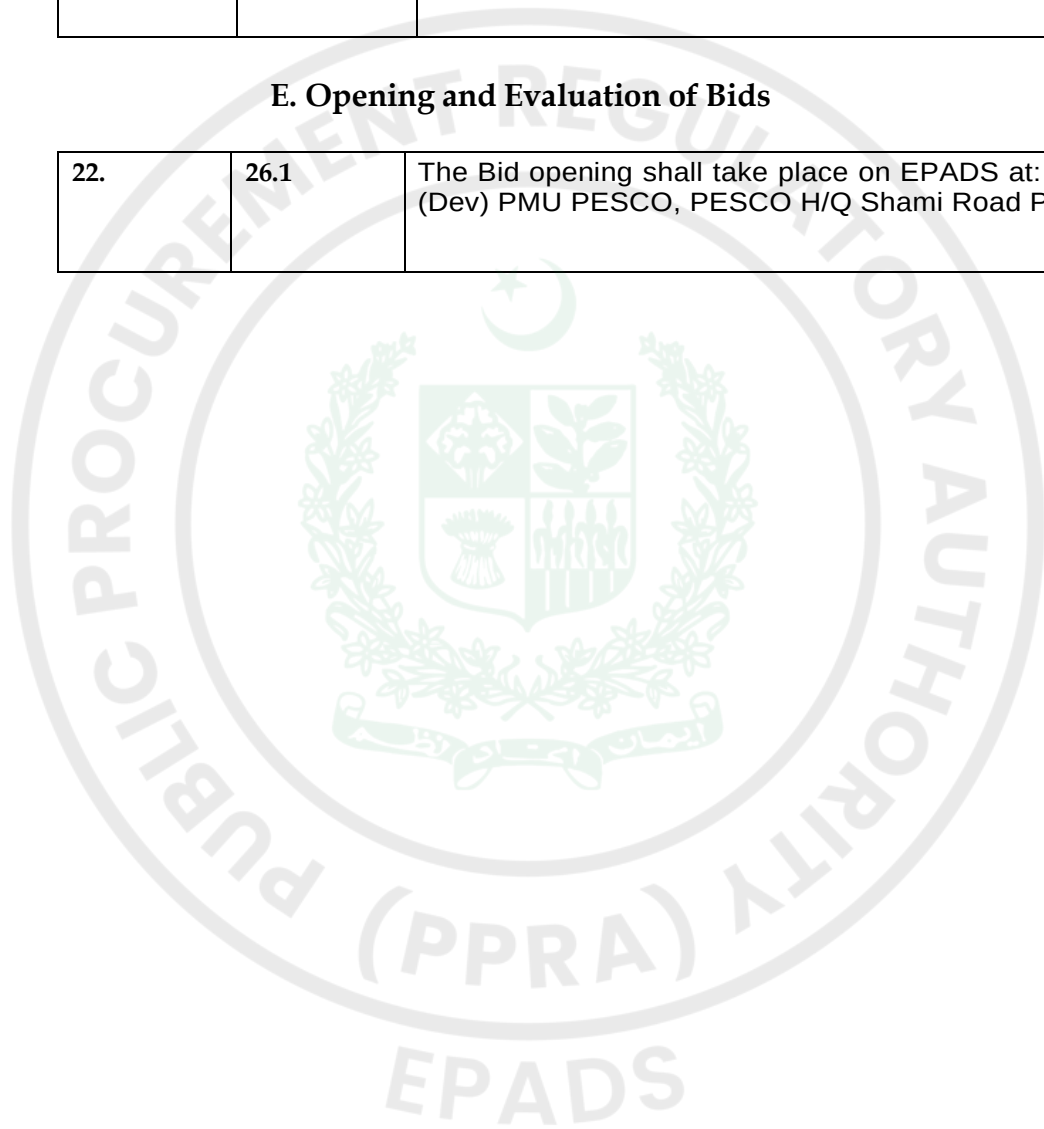
		6. <u>Blacklisting and Debarment Certificate</u> Bidder/tenderer will submit a certificate that the firm is Not blacklisted/ debarred by WAPDA/ DISCOs/ GENCOs/ NTDC as per PPRA rules at present. The Qualification of the Bidders will be based on meeting the minimum pass/fail criteria as demonstrated by the Bidders' responses in the respective Appendices. The above stated requirements are a minimum and the Purchaser reserves the right to request for any additional information. The Purchaser also reserves the right to reject the proposal of any Bidder, if in the opinion of the Purchaser the qualification details are incomplete, ambiguous or the Bidder is found not qualified to satisfactorily perform the Contract. The above stated Appendices should be completed as per prescribed format and submitted along with required attachments. The missing or incomplete information/documents render the bid substantially non-responsive. In this regard, the Purchaser does not have an obligation to request any document/certificates. The bidder is required to include with its Bid, documentation from the manufacturer of the goods that it has been duly authorized to deliver, in Pakistan, the goods indicated in its Bid in case of the Bidder is not Manufacturer.
11.	15.7 (a) (iii), (iv) (optional)	The Price Quoted shall be on FCS Basis.
	15.9	The price shall be fixed.
12.	16.1 (a)	a) The quoted price shall be in Pakistani Rupees.
	16.2	N/A.
13.	17.1	<u>The Bid Validity period shall be 90-days.</u> as specified on EPADS
14.	18.1	The Bid Security as specified The currency of the Bid Security shall be: Pakistani Rupees and the original will be submitted by the Bidder in Hard in the office of Chief Engineer (Dev) PMU PESCO Peshawar on the date of Bid opening before Bid Opening Time.
15.	18.3	The Bid Security shall be in the form as specified on EPADS
16.	18.3 (c)	Other forms of security are N/A
17.	19.1	Alternative Bids to the requirements of the Bidding Documents will not be permitted.
18.	21.1	The E-Bid shall be submitted on EPADS with all the attachments as required in bidding documents. No hard copy is required
	21.2	Written confirmation of authorization are:[list acceptable confirmation of authorizations]

D.Submission of Bids

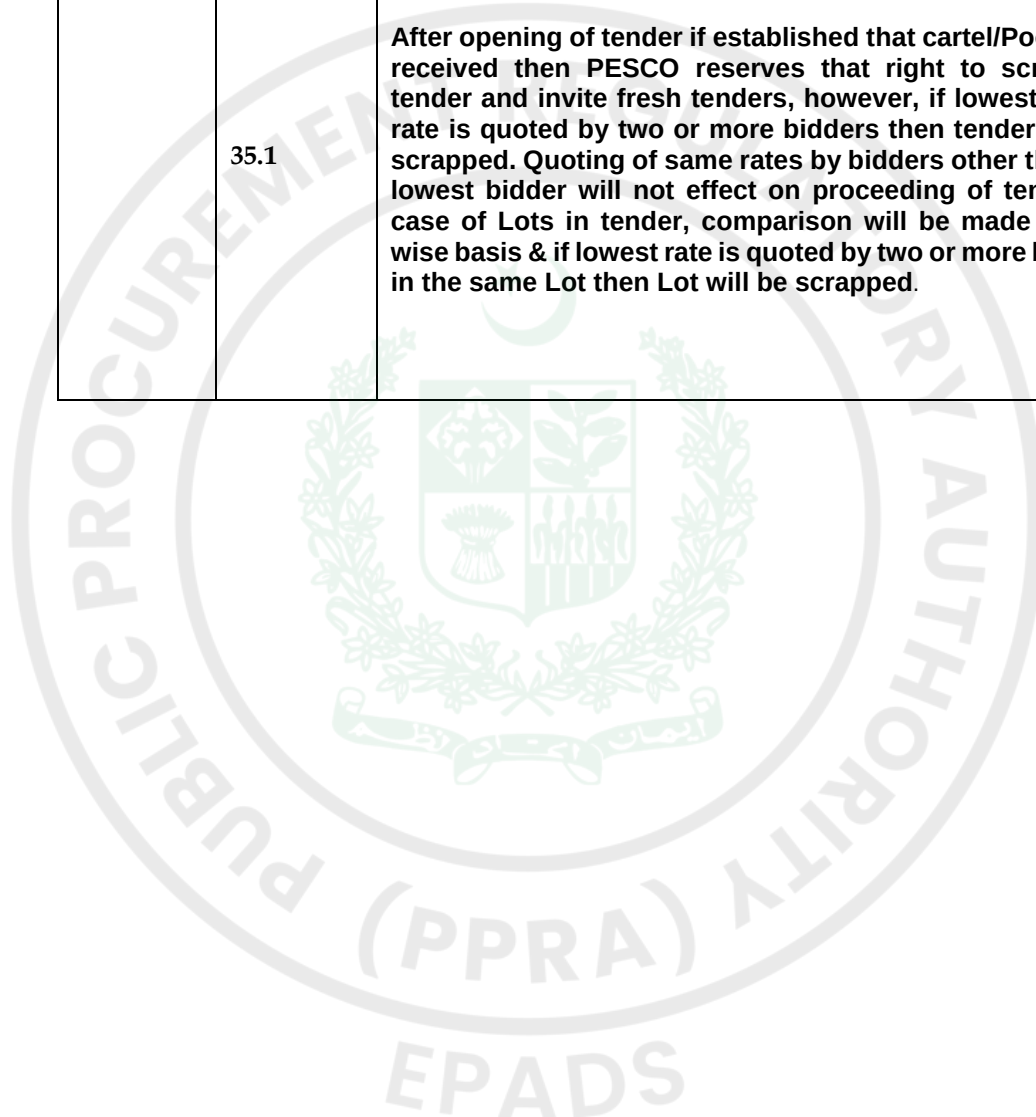
19.	22.2 (a)	Bids shall be submitted on EPADS Version-2 as per PPRA rules
20.	22.2 (b)	Title of the subject Procurement or Project name: As specified on EPADS
21.	23.1	The deadline for Bid submission is as specified on EPADS

E. Opening and Evaluation of Bids

22.	26.1	The Bid opening shall take place on EPADS at: Chief Engineer (Dev) PMU PESCO, PESCO H/Q Shami Road Peshawar
-----	------	---



23.	32.2	The currency that shall be used for Bid evaluation and comparison purposes to convert all Bid prices expressed in various currencies is: N/A The source of exchange rate shall be: N/A The date of exchange rate shall be: N/A
24.	35 35.1	Evaluation Techniques 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 highest ranked bid. After opening of tender if established that cartel/Pool rates received then PESCO reserves that right to scrap the tender and invite fresh tenders, however, if lowest tender rate is quoted by two or more bidders then tender will be scrapped. Quoting of same rates by bidders other than the lowest bidder will not effect on proceeding of tender. In case of Lots in tender, comparison will be made on Lot wise basis & if lowest rate is quoted by two or more bidders in the same Lot then Lot will be scrapped.



25.	33.4 (h)	Other specific criteria are N/A
26.	33.5 (a)	N/A.
27.	33.5 (b)	Delivery schedule. <u>90 days from issuance of Purchase order.</u>
	Option (i)	N/A.
	Option (ii)	N/A,
	Option (iii)	N/A
28.	33.5 (c)	Deviation in payment schedule N/A.
	(ii)	Annual interest rate. N/A
29.	33.5 (d)	Cost of spare parts. N/A
30.	33.5(e)	Spare parts and after sales service facilities in Pakistan. <i>As per NTDC Specifications</i>
31.	33.5 (f)	Operating and maintenance costs. Factors for calculation of the whole life cost: i) number of years for whole life cycle <i>as per NGC Specification</i> ii) operating costs <i>as per NGC Specifications/policy</i> iii) maintenance costs <i>as per NGC Specifications/policy</i> and iv) rate, as a percentage, to be used to discount all annual future costs calculated under (ii) and (iii) above to present value. or Reference to the methodology specified in the Technical Specifications or elsewhere in the Bidding Documents.
32.	33.5 (g)	Performance and productivity of equipment. <i>As Per NGC/WAPDA/PPMC/PESCO Specification/Policy</i>
33.	33.5 (h)	Specific additional criteria to be used in the evaluation and their evaluation method or reference to the Technical Specifications. As per NGC/PESCO/WAPDA Specification and Policy
34.	33.6	Bid must be for full tender quantity and in case of Lot, the bid must be for full Lot quantity, less quantity will not be accepted. Evaluation and comparison of bids will be for whole quantity of tender/lot (if material is offered in Lots). Bids not covering the entire equipment included in the tender/lot shall be

		considered non-responsive and not considered for further comparison.
35.	34.1	a) Domestic preference to apply. Preference to domestic or national Bidders, Suppliers, Manufacturers, Contractors shall be provided in accordance with policies of the Federal Government and/or in accordance with the regulations issued by the Authority (PPRA).
F. Award of Contract		
36.	40.1	The invitation to tender is without engagement and the purchaser before placing the purchase order/ contract agreement reserves the rights: (i) To scrap the tender. (ii) To increase/decrease the quantity as per requirement/availability of funds. (iii) To delete any item. The purchaser will have the right to enhance the quantity of material/equipment indicated in the contract/PO during the currency of the contract provided that the cost of additional material/equipment does not exceed by an amount of 15% of the total value of original contract as per PPRA Rule. The purchaser may issue repeat orders not exceeding 15% of the original procurement as per PPRA rule.

37.	43.1	The Performance Security (or guarantee) shall be 10% of the contract price including GST
38.	43.2	The Performance Security (or guarantee) shall be in the form of Bank Guarantee / CDR/ Bank Draft.
39.	44.1	The Advance Payment if essential shall be limited to N/A
40.	44.2	Maximum amount of Advance payment shall be N/A
41.	45.1	Arbitrator shall be appointed by mutual consent of the both parties.



F. Review of Procurement Decisions

42.	49.1	The address of the Procuring Agency: Peshawar Electric Supply Company (PESCO)
		As specified on EPADS The Address of PPRA to submit a copy of grievance: Appellate Committee, Public Procurement Regulatory Authority 1 st Floor, FBC Building, G-5/2, Islamabad, Pakistan.



Section IV. Eligible Countries

All the bidders are allowed to participate in the subject procurement without regard to nationality, except bidders of some nationality, prohibited in accordance with policy of the Federal Government.

Following countries are ineligible to participate in the procurement process:

1. India
2. Israel





SECTION VI- STANDARD FORMS



STANDARD FORMS FOR (Single Stage One Envelope Procedure)

Table of Forms

Following documents must be included with the Bid

- a. Letter of Bid
- b. Bidder Information Form
- c. Bidder JV Members Information Form
- d. Form of Bid Securing Declaration
- e. Delivery and Completion Schedule
- f. Schedule of Deviations from Technical Provisions
- g. Integrity Pact
- h. From of Pending Litigation
- i. Manufacturer's Authorization
- j. Form of Bid Security (Bid Bond)
- k. Bidder's / Manufacturer's Experience of Supply Record
- l. Bidder's / Manufacturer's Performance Record
- m. Affidavit
- n. Price Schedule form
- o. Financial Data
- p. Annual Turnover Data

Letter of Bid

Date:

To: Gentlemen and/or Ladies:

Having examined the Bidding Documents including Addenda Nos: *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to deliver *[description of goods and services]* in conformity with the said Bidding Documents for the sum of *[total Bid Amount in words and figures]* or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We declare that our Bidding price did not involve agreements with other Bidders for the purpose of Bid suppression.

We are hereby confirming *[insert the name of the Appointing Authority]*, to be the Appointing Authority, to appoint the adjudicator in case of any arisen disputes in accordance with **ITB Clause 45.1**

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our Bid is accepted, we undertake to provide a Performance Security (or Guarantee) in the form, in the amounts, and within the times specified in the Bidding Documents.

We declare that, as Bidder(s) we do not have conflict of interest with reference to **ITB Clause 3.7**.

We agree to abide by this Bid for the Bid Validity Period specified in **BDS 13**, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

We are not participating, as Bidders, in more than one Bid in this Bidding process, other than alternative offers in accordance with the Bidding Documents.

Our firm, its affiliates or subsidiaries – including any subcontractors or suppliers for any part of the contract – has not been declared ineligible by the Government of Pakistan under Pakistan's laws or official regulations.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any Bid you may receive.

We certify / confirm that we comply with the eligibility requirements as per **ITB Clause 3** of the Bidding Documents

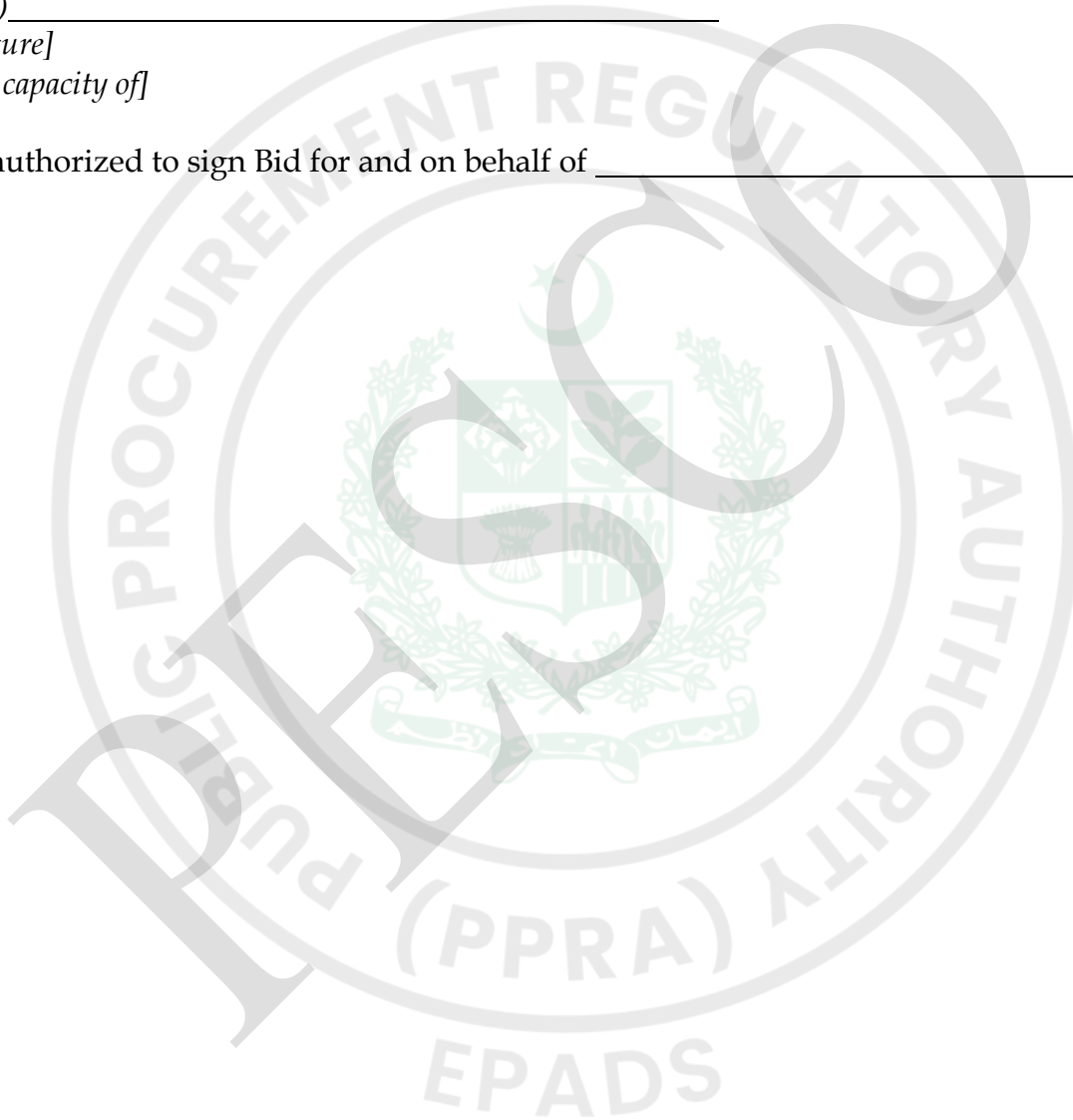
Dated this _____ day of _____ 20 _____.

(Name) _____

[signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____



Bidder Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

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

No.: *[insert number of Bidding process]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

Page _____ of _____ pages

1. Bidder's Name <i>[insert Bidder's legal name]</i>
2. In case of JV, legal name of each member : <i>[insert legal name of each member in JV]</i>
3. Bidder's actual or intended country of registration: <i>[insert actual or intended country of registration]</i>
4. Bidder's year of registration: <i>[insert Bidder's year of registration]</i>
5. Bidder's Address in country of registration: <i>[insert Bidder's legal address in country of registration]</i>
6. Bidder's Authorized Representative Information Name: <i>[insert Authorized Representative's name]</i> Address: <i>[insert Authorized Representative's Address]</i> Telephone/Fax numbers: <i>[insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> ☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above. ☐ In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 3.4. ☐ Establishing that the Bidder is not under the supervision of the Procuring Agency
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

Bidder's JV Members Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. The following table shall be filled in for the Bidder and for each member of a Joint Venture]].

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

RFB No.: *[insert number of RFB process]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

Page _____ of _____ pages

1. Bidder's Name: <i>[insert Bidder's legal name]</i>
2. Bidder's JV Member's name: <i>[insert JV's Member legal name]</i>
3. Bidder's JV Member's country of registration: <i>[insert JV's Member country of registration]</i>
4. Bidder's JV Member's year of registration: <i>[insert JV's Member year of registration]</i>
5. Bidder's JV Member's legal address in country of registration: <i>[insert JV's Member legal address in country of registration]</i>
6. Bidder's JV Member's authorized representative information Name: <i>[insert name of JV's Member authorized representative]</i> Address: <i>[insert address of JV's Member authorized representative]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers of JV's Member authorized representative]</i> Email Address: <i>[insert email address of JV's Member authorized representative]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> ☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITB 4.4.
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

Form of Bid-Securing Declaration

[The Bidder shall fill in this Form in accordance with the instructions indicated.]

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

No.: *[number of Bidding process]*

Alternative No.: *[insert identification No if
this is a Bid for an alternative]*

To: *[complete name of Procuring agency]*

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:

Name of the person duly authorized to sign the Bid on behalf of the Bidder**

Title of the person signing the Bid _____

Signature of the person named above _____

Date signed _____ day of _____, _____

*: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder

**: Person signing the Bid shall have the power of attorney given by the Bidder attached to the Bid

[Note: In case of a Joint Venture, the Bid-Securing Declaration must be in the name of all members to the Joint Venture that submits the Bid.]

Delivery & Completion Schedule

The delivery period shall start from the date of Purchase Order

Tender No.	Lot	Description of Goods	Unit	Total Quantity	Delivery Period required FCS PESCO Warehouse Jamrud Road Peshawar	Offered Delivery Period
	—				90 Days	
					90 Days	

Signature and seal of the Manufacturer/Bidder

Schedule of Deviations from Technical Provisions

Note:- Attach additional sheets, if necessary, Non-listing of deviations, if any, shall make the bid non-responsive.

Sr. No.	Clause No. of Technical Provisions	Deviations	Remarks (including justification)

Signature and Seal of the Manufacturer / Bidder:

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: _____

Dated: _____

Contract: _____

Value: _____

Contract Title: _____

[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.

[Buyer]

[Seller/Supplier]

FORM OF PENDING LITIGATION

Each Bidder or member of a JV must fill in this form.

Pending Litigation					
Year	Name of Other Party(ies)	Matter in Dispute	Litigation whether in Courts or Arbitration	Amount involved	
				Pending or Threatened	Resolved
Total					

Manufacturer's Authorization

*[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its Bid, if so indicated in the **BDS.**]*

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

No.: *[insert number of Bidding process]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Procuring Agency]*

WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Bidder]* to submit a Bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 28 of the General Conditions of Contract, with respect to the Goods offered by the above firm

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Form of Bid Security

(Bank Guarantee)

[The bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated.]

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[Purchaser to insert its name and address]*

No.: *[Purchaser to insert reference number for the Request for Bids]*

Alternative No.: *[Insert identification No if this is a Bid for an alternative]*

Date: *[Insert date of issue]*

BID GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that _____ *[insert name of the Bidder, which in the case of a joint venture shall be the name of the joint venture (whether legally constituted or prospective) or the names of all members thereof]* (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its Bid (hereinafter called "the Bid") for the execution of

_____ under Request for Bids No. _____ ("the RFB").

Furthermore, we understand that, according to the Beneficiary's conditions, Bids must be supported by a Bid guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____

(_____) upon receipt by us of the Beneficiary's complying demand, supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:

- (a) has withdrawn its Bid during the period of Bid validity set forth in the Applicant's Letter of Bid ("the Bid Validity Period"), or any extension thereto provided by the Applicant; or
- (b) having been notified of the acceptance of its Bid by the Beneficiary during the Bid Validity Period or any extension thereto provided by the Applicant, (i) has failed to sign the contract agreement, or (ii) has failed to furnish the performance security, in accordance with the Instructions to Bidders ("ITB") of the Beneficiary's bidding document.

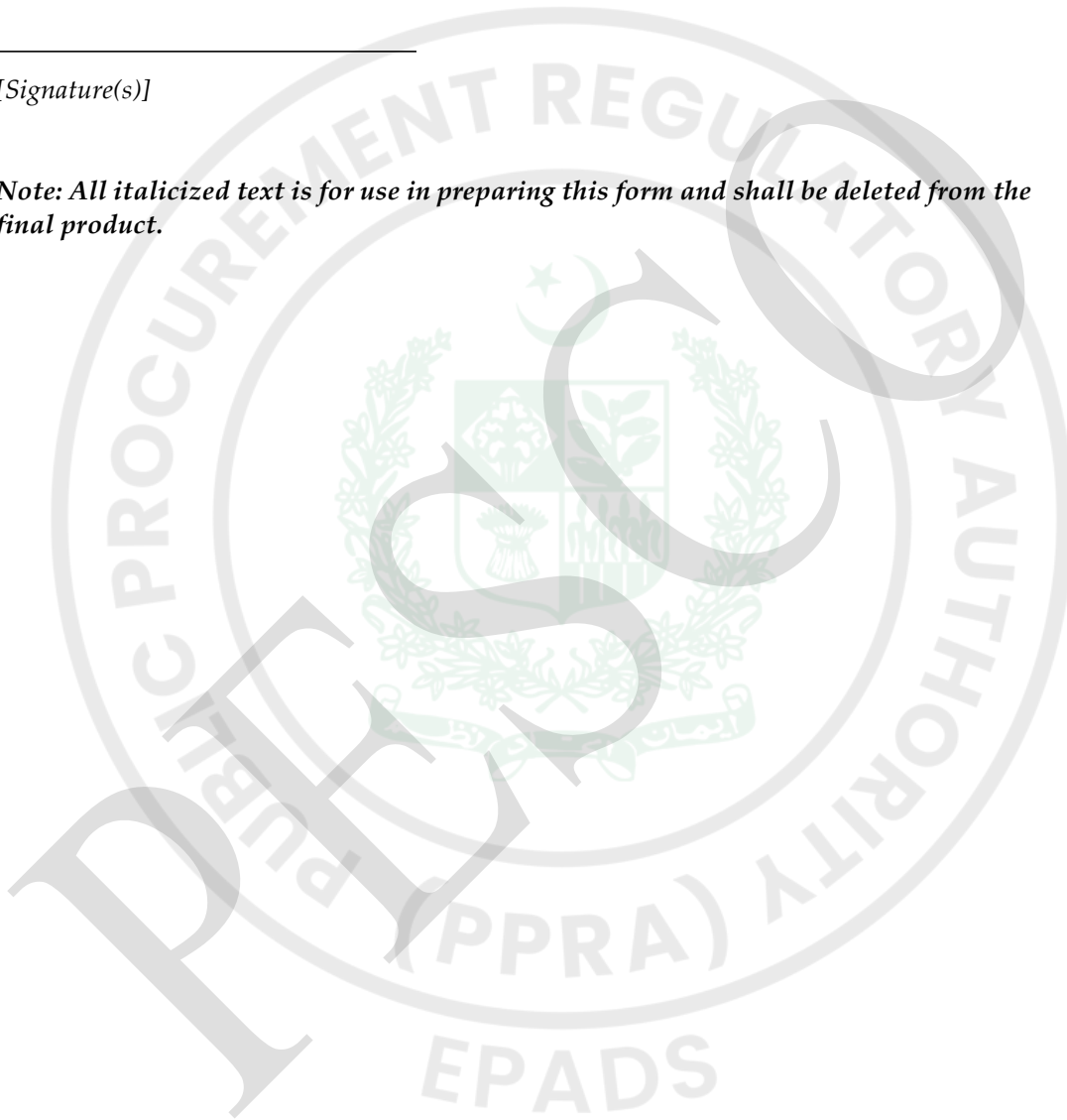
This guarantee will expire: (a) if the Applicant is the successful Bidder, upon our receipt of copies of the Contract agreement signed by the Applicant and the performance security issued to the Beneficiary in relation to such Contract agreement; or (b) if the Applicant is not the successful Bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Bidding process; or (ii) twenty-eight days

after the end of the Bid Validity Period.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

[Signature(s)]

Note: All italicized text is for use in preparing this form and shall be deleted from the final product.



BIDDER'S / MANUFACTURER'S EXPERIENCE OF SUPPLY RECORD

Name of the Equipment/Goods:

Sr. No.	Client Name, Address Phone, Number & E-mail	Item	Quantity	Amount (PKR)	Year	Copies of agreement / P.O.

Sign and Stamped

BIDDER'S / MANUFACTURER'S PERFORMANCE RECORD

(For a period of Last 05 Years) Name of the Equipment/Goods:

Sr. No.	Client Name, Address Phone, Number & E-mail	Item	Quantity	Year	End-user Certificate

Sign and Stamped

AFFIDAVIT

I, S/o (M/s _____) bearing CNIC No _____
R/o do hereby solemnly declare and affirm on oath that due compliance has been made
with the provisions of the Public Procurement Rules, 2004, Public Procurement Regulations
of PPRA and

P.E.S.C.O Procurement Policy and contracts Manual 2021 throughout the course of
the bidding process, and also declare and affirm on oath that:

- Neither, I nor any employee, associates, agents, shareholders, consultants, partners or their relatives or associates have any relationship that could be regarded as conflict of interest as set out in the bidding documents;
- Should we become aware of the potential for any such conflict, it will be reported immediately to PESCO.
- Neither we nor any one of our business have directly or indirectly entered into corrupt, fraudulent, coercive practices in respect of our bid proposal.
- During the procurement process and evaluation of the bids we have adhered to the ethical standards set out under law in particular PPRA Rules, 2004, Public Procurement Regulations and PESCO Procurement Policy and Contract manual 221.

Date: _____

Contractor / Lead Partner (In case of JV) / Procuring Agent

PRICE SCHEDULE OF GOODS

Name of Bidder_____

Bid Reference Number_____

Note:

- a) In Case of Discrepancy, between unit price and total, the unit price will prevail.
- b) Bid covering only part of a tender will be rejected.
- c) Bidders are required to carefully fill in the only price schedule of their offered material against specified tenders.

Description of Goods	Unit	Total Qty.	Unit FCS Price w/o GST (PKR)	Total FCS Price w/o GST (PKR)	Total FCS Price With 18%GST (PKR)

FINANCIAL DATA

The Bidder and each JV partner (in case of JV) shall complete the information in this Form. Name of the Bidder/JV Partner:

Financial Data for Last (03) Years			
Fiscal Year			
Information for Balance Sheet			
Total Assets			
Total Liabilities			
Net Worth			
Current Assets			
Current Liabilities			
Information from Income Statement			
Total Revenues			
Profits Before Taxes			
Profits After Taxes			
Attach copies of financial statements (balance sheets including all related notes, and income statements) for the last three years, as indicated above, complying with the following conditions: - All such documents must reflect the financial situation of the Bidder and not sister, affiliate or parent companies. - Historic financial statements must be audited by a chartered accountant whose certificate of incorporation with its concerned accreditation body for example Association of Chartered Accountants of X-Country shall be submitted with the Bid. - Historic Financial statements must be complete, including all notes to the financial statements. - Historic financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).			

Signature and Seal of the Bidder

ANNUAL TURNOVER DATA

Name of the Bidder/JV Partner:_____

Bidder and each Joint Venture Partner (in case of JV) are requested to complete the information in this form separately.

Annual turnover data for the last three fiscal years			
Year	Amount (Currency)	Exchange Rate*	Equivalent Amount (US\$/PKR)
2022-23			
2023-24			
2024-25			
Average Annual Turnover (for last three years)			

* The Exchange Rate (Selling) prevailing 28 days prior to Bid Opening

Signature and Seal of the Bidder:

SECTION V: SCHEDULE OF REQUIREMENTS, TECHNICAL SPECIFICATIONS



SPECIFICATIONS- TECHNICAL PROVISIONS

Sr. No.	Description of Material	Specification
1		As per NGC/WAPDA/PPMC relevant Specification (amended up-to date)

1. GENERAL

- 1.1 All design, equipment, materials and workmanship shall comply with and be tested in accordance with requirements of the specifications. Equipment or parts which are not covered by the specifications shall comply with rules, codes and regulations of the international electro-technical commission or approved National Standards bodies.
- 1.2 The general inlet of these specifications is to require the supply of equipment and materials equal or superior to those actually described herein. Unless otherwise stated, reference to the brand or manufacture, if made is only for the sake of comparison as to type, design, character or quality of the equipment and material desired and shall not be interpreted as eliminating other equipment and material of equal performance, quality and durability.

2. SPECIFICATIONS AND DRAWINGS.

- 2.1. The contract shall be executed in strict conformity with the specifications and / or drawings given or mentioned in this section and the supplier shall do no 'Work' without proper specifications, instructions and / or drawings.
- 2.2 Specifications and/or drawings are intended to complement each other so that if anything is shown on the drawings as required but not mentioned in the specifications or vice versa, it shall be of like effect as if shown or mentioned in both. If any errors, omissions or discrepancies are found in the figures, specifications and/or drawings or, if any feature shall appear to the supplier to be indefinite or unclear, the same shall be referred to the Engineer whose written explanation and/or clarification shall be obtained before proceeding with the work.
- 2.3 The supplier shall submit to the Engineer within 15 days of the issuance of the Letter of Acceptance, for approval of the Engineer, four (4) copies of all drawings, technical literature, data, operation and maintenance instruction books and/or manuals required under the specifications and such other documents as are required in the Technical Specifications or other provisions of the bidding documents or, if he deems necessary, require changes or modifications to be made therein, he shall return two copies to the Supplier marked "Approved", "Approved as Noted" or "Returned for Correction". Each drawing which is noted "Returned for Correction" shall be resubmitted to the Engineer after corrections.
- 2.4 The Supplier shall allow 15 days for the Engineer's approval of drawings in his schedule of work and in the time allowed for completion of the Contract. Extra time required for approval of drawings due to deficiencies in design or errors in submitted drawings shall be the responsibility of the Supplier and no extension in time will be allowed on this account. Delays in obtaining approval caused by the Engineer beyond 15days will entitle the Supplier to an extension of time.
- 2.5 Approval by the Engineer does not relieve the Supplier of his responsibility to do the work in accordance with the Contract.
- 2.6 The Supplier shall be responsible for any discrepancies, errors or omissions in any drawings or other particulars supplied by him whether such drawings or particulars have been approved by the Engineer or not.
- 2.7 All drawings and documents furnished by the Supplier in accordance with the Contract shall become the property of the Purchaser.
- 2.8 Wherever reference is made in the Technical Specifications to specific standards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest current

Signature and seal of the
Manufacturer/Bidder

edition or revision of the relevant standards or codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relates to a particular country or region, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.

3. LANGUAGE

- 3.1 All correspondence, literature, drawings, name plates, diagrams, applicable data, equipment details, instructions and maintenance books and manuals, spare parts books and descriptive data shall be in the English language.

Signature and seal of the
Manufacturer/Bidder



4. UNITS OF MEASUREMENT

- 4.1 All dimensions and units given by the Supplier in the Bid with its associated drawings and the Approval Drawings as submitted by the Supplier shall be in metric system and all reference to weights, measurements and quantities shall be in metric units.

5. TYPE TESTS/ PROTOTYPE

- 5.1 The supplier shall supply valid type test reports from an independent testing laboratory accredited by STL or Any other reputed / recognized laboratory acceptable to NGC/WAPDA/ PESCO/PPMC with the bid for equipment offered as per NGC Type Testing Policy (Amended to date) and the non-provision of valid type test, the Bidder will be declared as Non-responsive.
- 5.1.1 For procurement of proprietary items (Industrial gases, Mineral oil & its Products, Office Furniture, Genuine Spare Parts of specific brands, all parts of existing machinery of Grid Station & Sub-Station from original manufacturer, T&P, Testing Equipment, Fire Fighting Equipment, etc.) type test report will not be required and material will be accepted on provision of (i) literature / brochure (ii) Factory Acceptance Test (iii) Visual Inspection with the following warranty and test certificate.
- 5.1.2 In case of Material/equipment and other applicable Items where prototype is required as per NGC/WAPDA/PPMC policy (Amended to date), only the approval of prototype is required and shall be submitted with the Bidding documents.

6. Warranty

- 6.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- 6.2 The Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.
- 6.3 Unless otherwise specified in the PCC, A warranty to the effect that the goods offered conform exactly to the specifications laid down in this Contract and that the goods in question have also been tested and checked prior to delivery & that the goods in question are new and free from all defects, and that in the event of goods being found old or defective or not conforming to the specifications or not in conformity with the test certificate, you will be held responsible for all losses and that you agree to substitute the unacceptable goods with the acceptable goods at your risk and cost provided the above mentioned defects/deficiencies are noticed within 18 months from the date of installation/ commissioning or 24 months from the date of delivery of last consignment whichever is earlier.
- 6.4 The Purchaser shall give Notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.
- 6.5 Upon receipt of such Notice, the Supplier shall, within the period specified in the PCC, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
- 6.6 If having been notified, the Supplier fails to remedy the defect within the period specified in the PCC, the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract

7. Test Certificate

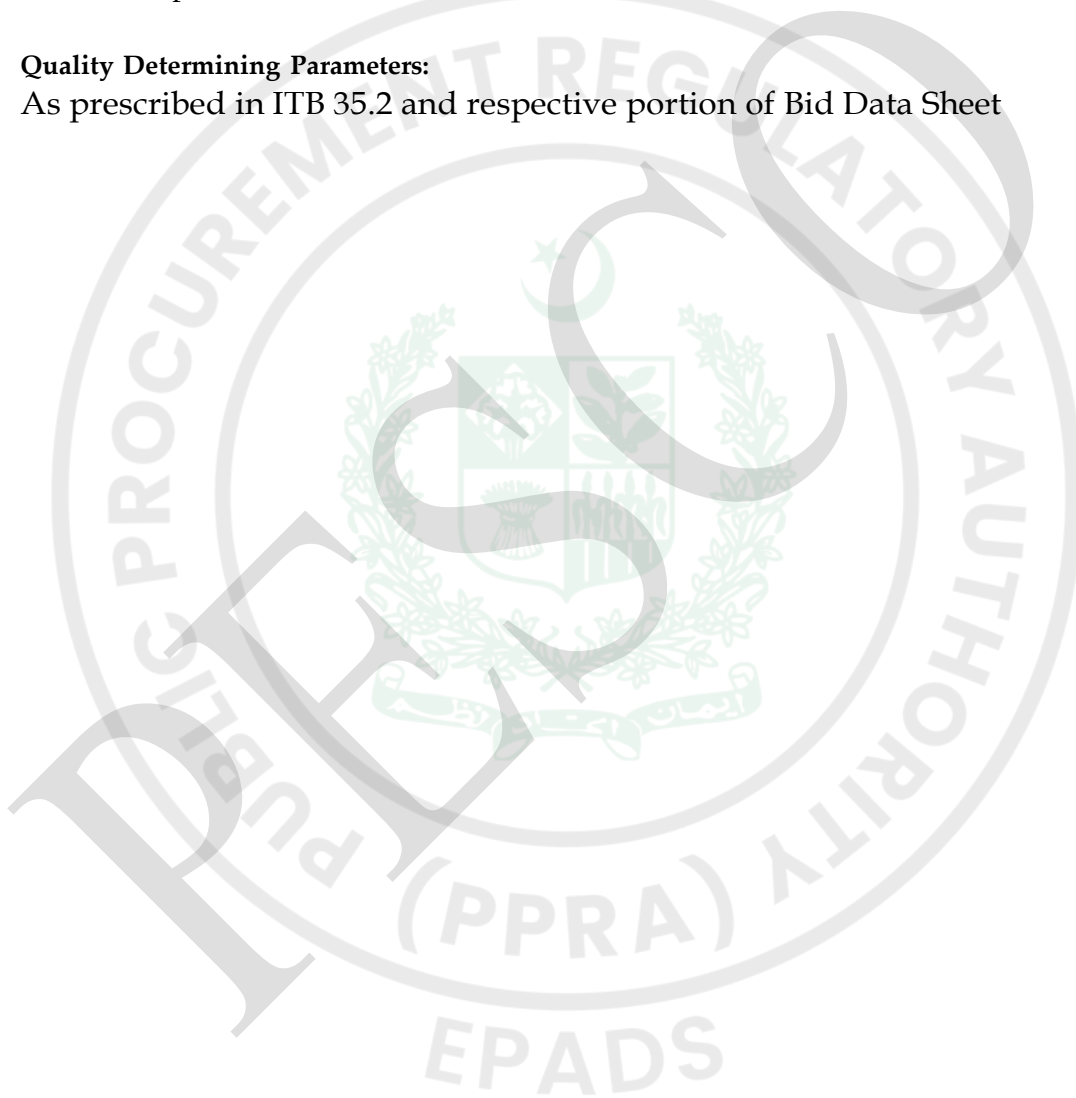
The firm will enclose with each consignment, manufacturer's test certificate in triplicate conforming that the goods offered conform to requirements of the tender and specification/literature / broucher provided with the equipment.

8. TECHNICAL SPECIFICATIONS.

The technical specification of equipment/material will be as per WAPDA/NGC specification amended to date.

Quality Determining Parameters:

As prescribed in ITB 35.2 and respective portion of Bid Data Sheet





SECTION VIII: SPECIAL CONDITIONS OF THE CONTRACT (SCC)



Special Conditions of Contract (SCC)

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

SCC Clause Number	GCC Clause Number	Amendments of, and Supplements to, Clauses in the GCC
		Definitions (GCC 1)
1.	1.1	The Procuring Agency is: Peshawar Electric Supply Company (PESCO)
2.	1.1(j)	The Supplier is: <i>[Name and address]</i>
3.	1.1(q)	The title of the subject procurement or The Project is: As specified on EPADS
4.	2.3	In case of any discrepancy, applicable preferences of clauses will be as under: 1. Clauses of Contract/Purchase Order 2. Clause of Letter of Intent/Notification of award 3. Clauses of Special Conditions of the bidding document 4. Clauses of Bidding Data mentioned in bidding document 5. Clauses of General Conditions of the bidding document.
		Governing Language (GCC 4)
5.	4.1	The Governing Language shall be: English
		Applicable Law (GCC 5)
6.	5.1	The Applicable Law shall be: Laws of the Pakistan
		Country of Origin (GCC 6)
7.	6.1	Country of Origin is
		Performance Security (or guarantee) (GCC 10)
8.	10.1	The amount of performance security (or guarantee), as a percentage of the Contract Price including, shall be: Ten (10) percent of the Contract Price
9.	10.4	After delivery and acceptance of the Goods, 10 percent of the Performance Security (or guarantee) shall be withheld to cover the Supplier's warranty obligations in accordance with GCC Clause 18.2.
		Inspections and Tests (GCC 11)

10.	11	To ensure the manufacture of Goods to be in conformity with Contract requirements, the Supplier shall institute and follow regular procedures for quality assurance during manufacturing process. The Supplier shall maintain an independent quality control department which shall be responsible for enforcing the quality assurance program. Upon Award of the Contract, the Supplier and the “Engineer” (in this case PESCO/ “Engineer”) shall establish mutually acceptable quality control and inspection procedure. The Engineer may require witnessing any or all the tests during manufacturing. For such purpose the Supplier shall provide free access at all times during manufacturing, assembly and testing to the premises in which the work is being carried out. The finished goods shall be subjected to the sample and routine tests as described in the Specifications. Inspection of material will be carried out at bidder’s / manufacturer’s works by the authorized representatives of the PESCO. A notice of at least 15- days for locally manufactured material and two months’ notice for material being procured / manufactured out of Pakistan, in writing shall have to be given to the Engineer by you when the stores against the order are ready for inspection
		All reasonable facilities as provided in the specifications or followed by the Industry or Trade in general shall have to be afforded to the inspecting officers, by you at your expense for carrying out inspection. The cost of performing as well as witnessing any tests by the inspectors during type test / pre-shipment foreign inspection shall be borne by the supplier if such tests are clearly intended by or provided for in the specifications as agreed between purchaser and the supplier. Witnessing of the tests will cover the expenses of two (02) Inspectors including 1st class travelling (return air tickets from Peshawar-Pakistan) to the place or places of inspections, boarding & lodging in any A class accommodation, local transportation and daily allowance as admissible by the Govt. of Pakistan to meet other expenses which will be paid prior to issuance of inspection certificate. In case the goods fail to withstand any test, the cost of repeating such test and the cost of witnessing such test by the inspectors shall be borne by the Supplier and the equipment released or modified to the satisfaction of the Purchaser without any additional cost to the Purchaser. Any inspection and/or witnessing of tests or the waiving of such tests and/or surveillance by the engineer/inspector shall not relieve the Supplier of its obligations and responsibilities under the Contract regardless of any approval or consent given by the engineer and or inspector. Two copies of all the inspection and Tests Reports and certificates including those for quality control shall be supplied to the Engineer. The reports and certificates of such tests as have been witnessed shall be countersigned by the Engineer and/or inspector.
	Packing (GCC Clause 12)	
11.	12.2	The following SCC shall supplement GCC Clause 12.2: The Goods shall be packed properly in accordance with standard export packing specified by the Procuring Agency in the Technical Specification
	Delivery and Documents (GCC Clause 13)	

12.	13.1	For Goods supplied from abroad: Upon shipment, the Supplier shall notify the Procuring Agency and the Insurance Company by cable the full details of the shipment, including Contract number, description of Goods, quantity, the vessel, the bill of lading number and date, port of loading, date of shipment, port of discharge, etc. The Supplier shall mail the following documents to the Procuring Agency, with a copy to the Insurance Company: (i.) One original plus four copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount; (ii.) original and four copies of the negotiable, clean, on- board bill of lading marked "freight prepaid" and four copies of nonnegotiable bill of lading; (iii.) One original plus four copies of the packing list identifying contents of each package; (iv.) Insurance Certificate; (v.) Manufacturer's or Supplier's warranty certificate;
		(vi.) inspection certificate, issued by the nominated inspection agency, and the Supplier's factory inspection report; and (vii.) Certificate of country of origin issued by the chamber of commerce and industry or equivalent authority in the country of origin in duplicate. The above documents shall be received by the Procuring Agency at least one week before arrival of the Goods at the port or place of arrival and, if not received, the Supplier will be responsible for any consequent expenses.

12.	13.3	For Goods from within Pakistan: Upon delivery of the Goods to the transporter, the Supplier shall notify the Procuring Agency and mail the following documents to the Procuring Agency: (i.) one original plus four copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount; (ii.) delivery note, railway receipt, or truck receipt; (iii.) - Manufacturer's or Supplier's warranty certificate; (iv.) - inspection certificate issued by the nominated inspection agency, and the Supplier's factory inspection report; and (v.) certificate of country of origin issued by Pakistan Chamber of Commerce and Industry or equivalent authority in the country of origin in duplicate. The above documents shall be received by the Procuring Agency before arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.
Insurance (GCC Clause 14)		
13.	14.1	The Insurance shall be in an amount equal to 110 percent of the applicable INCOTERM value of the Goods from "warehouse" to "warehouse" on "All Risks" basis, including War Risks and Strikes.
Related Services (GCC Clause 16)		
14.	16.1	Related services to be provided are: <i>[Selected services covered under GCC Clause 16 and/or other should be specified with the desired features. The price quoted in the Bid price or agreed with the selected Supplier shall be included in the Contract Price.]</i>
Spare Parts (GCC Clause 17)		

15.	17.1	Additional spare parts requirements are: Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods. Other spare parts and components shall be supplied as promptly as possible, but in any case within six (6) months of placing the order and opening the letter of credit.
	Warranty (GCC Clause 18)	
16.	18.2	GCC Clause 18. —In partial modification of the provisions, the warranty period shall be 24-Months from date of acceptance of the Goods or 18-months from the date of installation/commissioning whichever is earlier. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the Contract. If, for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall, at its discretion, either: (a) make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with SCC 4, Or (b) pay liquidated damages to the Procuring Agency with respect to the failure to meet the contractual guarantees. The rate of these liquidated damages shall be 0.20 percent per day of undelivered materials/goods value up to the sum equivalent to the amount of ten percent of the contract value.
17.	18.4 & 18.5	The period for correction of defects in the warranty period is 15-days.
	Payment (GCC Clause 19)	

18.	19.1	The payment shall be made through direct payment procedure or an irrevocable confirmed Letter of Credit to be established by Finance Director PESCO, Peshawar through any scheduled bank of Pakistan in favor of supplier in bank in his country in the following manner. Charges for opening of Letter of Credit shall be borne by the supplier <u>For Goods and Related Services supplied from within the Purchaser's Country:</u> a) On delivery 90% of contract price of goods shipped will be paid by PESCO from its own resources by direct payment procedure or irrevocable letter of credit issued by a scheduled bank of Pakistan, on presenting of documents mentioned below: - On Acceptance: Ten (10) percent of the Contract Price of Goods received shall be paid by PESCO from its own resources on receipt of the Goods upon submission of a claim supported by the acceptance certificate issued by the Purchaser <u>For Goods from within the Purchaser's country as per Inco-terms FCS: -</u> The Supplier shall submit the following documents to the Purchaser: i) Original and four (04) copies of the Supplier's invoice showing the description of the Goods, quantity, unit price, and total amount. ii) Original and four (04) copies of clean on board Bill of Entry for imported raw material as per Clause 1B.13: Currencies of Bid and Payment of Section-II: Bidding Data and Appendices & Clause 16.4 of Section-IV: Part-II: Particular Conditions of Contract. iii) Original and four (04) copies of the Delivery Note. iv) Original and four (04) copies of the Manufacturer's or Supplier's warranty certificate. v) Original and four (04) copies of the Insurance certificate. vi) Original and four (04) copies of the Inspection certificate issued by the Purchaser or its designated representative or letter of waiver, and the manufacturer's factory inspection report; and vii) Original and four (04) copies of the Certificate of origin In case of direct payment, the payment shall be made 100% by Manager (Project Financing) PMU PESCO, Office of CE (Dev) PMU PESCO, Peshawar through direct cheque in favor of the Firm on production of the following documents <u>Documents required for Direct Cheque</u> a) Bill in triplicate for 100% claim along with Sales Tax Invoice. b) Delivery Challan and GRN duly stamped and signed by the consignee. c) Warranty certificate & no-payment certificate. d) Inspection Certificate issued by the inspecting agency. e) Integrity – pact on prescribed Performa duly signed and stamped. f) The reimbursement of Sales Tax @ 18% shall be made by the Manager (Project Financing) PMU PESCO on presentation of copy of paid Challan. <u>Documents required for Sales Tax</u> a) Bill in triplicate of 100% claim for Sales Tax. b) Sales Tax returns cum payment Challan for the month of delivery of material. c) Copy of Delivery Challan and GRN duly stamped and signed by the consignee. d) Certificate to the effect that the billed amount has not been claimed or received earlier. e) Copy of Inspection Certificate issued by the inspecting agency. f) In case the manufactures who pay lump sum Sales Tax, they shall also submit an affidavit on non-judicial paper that "Challan includes the amount of Sales Tax for supply of material to PESCO against said procurement. These document shall be however, be got verified / Pre audited by Finance Director PESCO before payment by the bank
19.	19.3	Rate to be used for paying the Supplier's interest on the late payment made by Procuring Agency shall be <i>[insert: rate]</i>.

	Prices (GCC 20)	
20.	20.1	Prices shall not be adjusted as the contract is fixed price contract
	Liquidated Damages (GCC Clause 26)	
21.	26.1	Applicable rate: Maximum deduction: is equal to the performance guarantee <i>Note: 0.5 per cent per week of undelivered materials/good's value.</i>
	Procedure for Dispute Resolution (GCC Clause 32)	
22.	32.3	Dispute Resolution <u>(a) For Contracts to be entered with foreign Contractor/ Service Provider:</u> All disputes arising in connection with the present Contract shall be finally settled under the Rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with said Rules. <u>(b) For Contracts to be entered with nationals of Pakistan:</u> 1. If any dispute of any kind whatsoever shall arise between the Procuring Agency and the Supplier 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 7 (seven) 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 seat of arbitration proceedings shall be at PESHAWAR, Pakistan and parties are hereby agreeing to be bound by any final decision or award of such arbitration” Any arbitration award made in agreement shall be governed by PPRA Rule 2004”

		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 6. commenced prior to, during or after delivery of goods. 7. 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 Procuring Agency shall pay the Supplier any monies due to the Supplier. 8. The Parties agree that this agreement and any subsequent agreement(s) shall be governed by, applied to, interpreted and construed in accordance with the laws of the Islamic Republic of Pakistan” 9. In relation to any legal action or proceedings arising out of or in connection with this agreement, the parties irrevocably submit to the exclusive jurisdiction of the competent courts of law at Peshawar Pakistan”
Notices (GCC Clause 35)		
23.	35.1	— Procuring Agency's address for notice purposes: Chief Engineer (Development) PMU PESCO, PESCO H/Q Shami Road Peshawar —Supplier's address for notice purposes:

SPECIFICATION P-133:95



CHARGER FOR STATION BATTERIES

DESIGN DEPARTMENT (NTDC)

C O N T E N T S

0. FOREWORD
1. SCOPE
2. DEFINITIONS
3. SERVICE CONDITIONS
4. TECHNICAL CHARACTERISTICS
5. DESIGN AND CONSTRUCTION
6. RATING PLATE
7. LOSSES
8. TESTS
9. PACKING
10. SPARE PARTS
11. TECHNICAL DATA AND DRAWINGS

PRINTING HISTORY

First edition – 14th February, 1980

Amendment NO. 1 Dated February, 1981

Second edition- December, 1995

DRAFT SPECIFICATION P-133:95

CHARGER FOR STATION BATTERIES

0.0 FOREWORD

0.1 This specification has been prepared by the Design T&G Department of WAPDA.

0.2 This specification is intended only for the procurement of material and does not include provisions of a contract.

0.3 This specification is mainly based on IEC Publication 146. However, if any requirements indicated herein differ from those of IEC Publication 146, the requirements indicated herein shall prevail.

0.4 This specification is subject to revision as and when require.

1.1 SCOPE

0.2 This specification describes a fully automatic, constant voltage type, semi-conductor rectifier equipment, intended to be permanently connected across the nominal 110V or 220V battery (lead-acid or nickel – cadmium type) and DC load of a substation in the floating battery system.

2.0 DEFINITIONS

2.1 Nominal Voltage

It is the voltage by which the DC power system of a sub-station, and hence, the charger is designated.

2.2 Rated Direct Voltage

It is mean value of the direct voltage (indicated by a moving coil voltmeter) between DC terminals of a charger under the given AC voltage

and specified service conditions, and can assume any selected value in an intended range of operating voltages.

2.3 **Rated Direct Current**

It is the mean value of the maximum direct current (indicated by a moving coil ammeter) which the charger is capable of carrying continuously at rated direct voltage under the specified service conditions.

2.4 **Float (and Float Voltage)**

It is the operation of a charger in parallel with a battery and a load. The charger operates at such a constant voltage (called the float voltage) that the battery draws the current from the charger which is just sufficient to maintain the battery in a fully charged condition.

2.5 **Boost (and Boost Voltage)**

It is that state of operation of the charger during which the battery is given initial charge, periodic equalizing charge or quick recharges subsequent to a discharge during AC supply failure, at an increased constant voltage (called the boost voltage).

3.0 **SERVICE CONDITIONS**

The chargers shall be suitable for indoor installation and be capable of delivering continuously the rated output under the following service conditions:

3.1 **Ambient Temperature**

Maximum	50°C
Maximum mean over 24 hours.	45 °C
Mean in any year	
Minimum	-10°C

3.2 **Humidity**

Relative humidity may range from 0 to 100 percent. The maximum value of temperature and humidity, however, do not occur simultaneously. In monsoon high humidity may persist over long periods with temperature ranging from 30°C to 40°C.

3.3 **Altitude**

Upto 1000 meters above sea level.

3.4 **AC Supply Fluctuations**

Voltage	+ / - 10%
Frequency	+/- 5%

4.0 **TECHNICAL CHARACTERISTICS**

4.1 **Ratings**

The chargers shall be designated as types A & B by their voltage and current ratings which shall be as follows:

	<u>TYPE A</u>	<u>TYPE B</u>
i. Nominal direct voltage	110 Volts	220 Volts
ii. Rated direct voltage		
Float	110–132 Volts	220–264 Volts
Boost	121-143 Volts	242-286 Volts
iii. Rated direct current	25 Amps.	40 Amps.
iv. Rated AC Supply voltages	240 Volts	415 Volts
	Single phase	Three phase

v. Rated supply frequency	50 Hz	50 Hz
vi. Duty Clause 46.2 of IEC 146)	1	1

4.2 **Temperature Rise**

The maximum temperature rise of the windings of converter transformer and filter choke shall not exceed 65 °C. The temperature limitations shall apply under both float and boost operations of the charger.

4.3 **Insulation**

4.3.1 **Dielectric Strength**

All circuits connected to the AC mains or to DC terminals shall be able to withstand safely an AC test voltage of 2kV rms 50 Hz for one minute applied between all terminals and earth, and between terminals of electrically separate circuits.

4.3.2 **Insulation Resistance**

The insulation resistance between each winding of converter transformer, screen, core and frame, measured at 100V DC immediately after the application of AC test voltage mentioned in clause 4.3.1 shall be not less than 20 megaohms.

4.4 **Regulation**

4.4.1 **Steady State**

The output voltage shall be automatically and continuously held constant to within +/- 1 % (one percent) of the voltage setting regardless of output

current varying from no-load to 100 percent rated direct current with a simultaneously variation of $\pm 10\%$ in AC supply with a simultaneous variation of $\pm 10\%$ in AC supply voltage and $\pm 5\%$ in supply frequency. This regulation shall be maintained under both float and boost operations and at each tap setting on the transformer primary (clause 5.2.9.1). The temperature stability of the regulating unit shall not exceed variation of $\pm 0.05\%$.

4.4.2 **Dynamic**

Following sudden acceptance or rejection of 80% of rated load with simultaneous variation of $\pm 10\%$ in input AC voltage and $\pm 5\%$ in frequency, the overshoot/undershoot of output voltage must not exceed 10% of rated output voltage and it must return to steady state limit within 5 cycles. This feature shall be verifiable with the help of a storage oscilloscope.

5.0 **DESIGN AND CONSTRUCTION**

5.1 **General**

5.1.1 The charger shall be designed to give fully automatic voltage stabilization and current limitation to provide proper charging characteristics to the battery.

5.1.2 They shall be completely solid-state and employ no mechanical relays except for boost charging system and the alarms. All semi-conductor devices shall be made of silicon and have non-ageing characteristics.

0.2.1 The charger circuitry shall be of modular design and the printed circuit cards shall have plug-in or slide in type construction. The internal layout of the charger shall be so designed that no healthy component is needed to be detached for extracting any faulty component i.e every component/module shall be directly accessible to the maintenance personnel. To meet

this requirement multi-layer design shall be avoided. The silicon rectifier diodes and thyristors may be assembled to one sub-assembly which can be easily replaced.

0.2.1 All the major components, whether inside or outside the cabinet, shall be adequately labeled and the test points to be used in the event of trouble shooting shall be suitably identified. These test points shall be readily accessible for the maintenance and troubleshooting even during operation of the charger. Wave – forms and /or quantitative analog levels of signals at each test point shall be given on the drawings as well as in the trouble shooting manual. A functionally laid out directional point to point testing sequence shall be given in the instructions manual.

0.2.1 All components especially the converter transformer and the thyristor stack shall be adequately rated for continuous operation at the maximum output under the specified service conditions and shall not normally require replacement during the life of the charger. Minimum safety margin for power semi-conductors shall not be less than 2.5 times of their characteristics values i.e. peak inverse voltage, peak forward voltage and max. forward current.

0.2.1 In choosing material and their finishes due regard shall be given to the service conditions specified. Tropical grade materials which are heat and moisture resistant shall be used and iron or steel shall be painted or galvanized. Small iron and steel parts of the instruments and electrical equipment, the core of electromagnets and electrical equipment, the core of electromagnets and the metal parts of relays shall be effectively treated to prevent rusting.

5.1.7 There shall be no fan or moving parts in the charger.

0.2.1 A 240 volts A.C. lamp fixture shall be provided inside the cabinet with a door-operated control switch such that the lamp will be lighted on opening the door. In addition, a 240 volt A.C 3-pin socket outlet shall be provided

inside the cabinet at a suitable place to provided inside the cabinet at a suitable place to make available A.C. supply for the testing equipment.

5.1.9 Auxiliary apparatus s instruments, fuses, circuit breakers etc., fitted in the charger shall comply with the appropriate IEC recommendations for the apparatus.

5.1.10 Light emitting diode (LED) type of signal lights of suitable rating (at least 8 mm dia) will be provided on the front panel.

5.2 **Design**

5.1.9 The chargers shall consist of a double wound converter transformer designed to suit the intended duty, a single or three phase (as the case may be) non-uniform thyristors stack using hermetically sealed silicon rectifier diodes and silicon controlled rectifiers (thyristors) in double way connection and mounted on suitable heat sinks, trigger equipment for thyristors, and the required protective, control and indicating devices.

5.2.2 The control equipment for firing of thyristors shall be so designated that instantaneous firing pulses are applied to thyrisotr gates at the same angle and amplitude as required ensuring adequate gate trigger voltage and current for reliable thyristor operation . Rectifier design shall include soft start feature in order to limit AC inrush current.

5.2.3 The forward and reverse characteristics including turn-on and turn-off time properties of the thyristors shall be perfectly matched so as to avoid unequal current distribution or unequal current distribution or unequal voltage division in the arms of thyristor stack.

5.2.4 In selecting silicon rectifier diodes and thyristors ample allowance shall be provided in the characteristics values for repetitive maximum inverse voltages and the factor of safety shall be such as to ensure that there will

never be a failure on these accounts. Similarly the circuits having semiconductor and other devices which normally fail under thermal mode shall be designed with ample protection against such failure.

5.2.5 The electronic components used shall be of high grade commercial quality as designated in relevant IEC standards. These shall have minimum safety margin of 30% in voltage and current ratings and 100% in power rating.

5.2.6 The rated direct voltage of the chargers shall be adjustable manually over the specified range of float and boost operations. Once the desired float and boost voltages have been selected, the regulating unit shall be capable of maintaining the output voltage at the p reset level on float and boost settings within specified regulation (clause 4.4.) automatically frequency, output current and the ambient temperature change separately or simultaneously.

5.2.7 **Float and Boost Charging System**

5.2.7.1 The chargers shall be provided with a system which allows initial charging as well as recharging of the battery in service under boost mode. Provisions shall be made for the initiation and cut-off of the boost charging mode manually as well as automatically, and a select or switch shall be provided to select the desired feature (clause 5.3.5).

5.2.7.2 Automatic boost facility shall be such that, when selected, the charger is switched on to boost mode automatically upon restoration of the AC supply after an AC mains failure, provided, the charging current drawn by the battery exceeds a preset limit (adjustable between 2 to 10 amperes). The charger shall automatically return to normal (float) mode after charging the battery in boost mode when the charging current drawn by the battery drops below a preset limit (adjustable between 0 to 5 amperes). Provision shall be made so that return to the mode can also be carried out manually.

5.2.8 **Current Limiter**

5.2.8.1 The charger shall be provided with an adjustable current limiter in order to restrict the output current of the charger to the preset value indicated in clause 5.2.9.4. This electronic control shall inherently protect the charger against direct short circuit and continuous overload without tripping, whether the charger is operating in float or boost mode.

5.2.8.2 The properties of the current limiter shall be such that, it shall automatically operate to rapidly reduce the output voltage of the charger and the current shall be limited to maximum 110% of the preset value irrespective of the boost or float voltage setting and input voltage variations within +/- 10%. The charger shall resume normal functioning and automatically supply the correct output voltage when the overload conditions are removed.

5.2.9 **Adjustments**

5.2.9.1 **Coarse Adjustment**

The provisions shall be made for the coarse adjustment of the rated direct voltage in the form of the taps on the converter transformer primary to compensate for any voltage difference from rated C supply voltage. The taps shall be provided and marked on for the following input voltages:

Single Phase Supplies

250 V
240 V (Principal Tap)
230 V
220 V

3-Phase Supplies

430 V
415 (Principal Tap)
400 V
280 V

The output voltage regulation at each tap setting shall be in accordance with clause 4.4.

5.2.9.2 **Float Voltage Adjustment**

It shall be possible to adjust the output voltage on float operation (auto/manual) within 100 – 120% of the nominal voltage. Potentiometer (s) shall be provided for setting these values by a continuous adjustment.

5.2.9.3 **Boost Voltage Adjustment**

It shall be possible to adjust the output voltage on boost operation (auto/manual) within 110-130% of the nominal voltage. Potentiometer (s) shall be provided for setting these values by a continuous adjustment.

5.2.9.4 **Current Limiter Adjustment**

The automatic current limiter shall be adjustable to limit the output current of the charger between 50 to 110% of the rated direct current.

0.2.1.1 Means for settings shall be very simple and readily accessible. All adjustment controls shall however become inaccessible when the door of the cabinet is closed. The controls shall be easily identified and so located that there is no possibility of any accidental alteration of the setting. Panel mounted controls shall be accepted only if the provision has been made to lock them after the desired settings have been obtained.

5.2.10 **Ripple Control**

The output of the charger shall be smoothed by means of a filter network comprising of at least one inductor and a capacitor of suitable values. The output shall be filtered to less than 3% (rms) of the direct voltage when delivering rated current to the resistive load. The capacitor shall be fused.

Fuse shall be installed at an accessible place inside the cabinet. A lamp shall be provided

5.2.11 **Protection and Isolation**

Circuit breakers of appropriate rating shall be provided to protect and isolate the chargers both on AC and DC sides against over current in the event of internal and external short circuits and wrong battery connections. Circuit breakers shall be mounted on front panel of the charger cabinet. The rating of circuit breakers shall be clearly marked on them.

Independent circuit breakers shall be provided on battery and load circuits. Fuses shall be provided on input and output sides of semiconductor bridge to protect it from overloading. A.C. main supply to the charger shall be controlled by electromagnetic contractor of adequate rating. It shall pick up when switched onto A.C. supply and drop out in case of over voltage at charger output.

5.2.12 **Surge Protection**

The chargers (particularly the thyristor stacks) shall be protected against transient surge voltages of internal and external origins both on AC and DC sides by a built-in surge suppression circuitry.

5.2.13 **Parallel Operation**

5.2.13.1 The charger shall be suitable for parallel operation both under boost and float conditions. A blocking diode shall be provided on the DC side of the chargers to prevent any reverse flow of power.

5.2.13.2 It shall be ensured that under any fault conditions at the charger, DC load must not be disconnect from the battery bank in order to avoid the outage of protection.

5.2.14 **Load voltage Limitation**

A suitable device shall be used in the load line of the chargers (clause 5.3.4) to limit the voltage to the DC load to maximum 110% of the nominal voltage under all operating conditions including the failure of the said device.

5.2.15 **Measuring Instruemnts**

A DC voltmeter and 2 DC ammeters (1 for battery circuit and 1 for DC load circuit) of moving coil type shall be provided for the continuous indication of output quantities. The DC voltmeter shall be connected to the battery side of the DC breaker. In addition to this an AC voltmeter of moving iron type shall be provided to read off input supply voltage. The AC voltmeter shall be accompanied by a phase selector switch in case of below 2% and measuring range commensurate with the charger rating.

5.2.16 **Alarms and Annuciations**

The chargers shall be fitted with the following fault detection arrangements. Besides operating the alarms as mentioned below, each arrangement shall have a spare contact for remote indication. These arrangements shall be mounted inside the cabinet.

1. **Mains under voltage & single-phasing
(for 3-phase sets only)**

Chargers working on 3-phase supply shall be equipped with a phase supervision device for the three phase mains in order to indicate a reduced or loss of output voltage on any one or more phases on secondary side of converter transformer by operating audible alarm and visual indication.

2. Charger Failure

A detection unit shall be fitted for sensing the charge failure. It shall operate an audible alarm provided on the charger and give an independent signal light (in red), on the front panel upon failure of charging current whether it is due to AC mains failure, internal charger failure or any other reason which causes the output voltage of the charger to fall below the battery voltage or due to opening of charger – battery link, except in case of switchover from boost to float charging mode.

3. Over Voltage on the Battery Bus

Adequate arrangement shall be made for sensing abnormal rise in the output voltage of the charger and or the charger and or the battery voltage owing to charger control unit (regulator) failure or any other reason. It shall be such that the charger stops to supply the charging current by disconnecting the A.C. main supply when the voltage on battery bus exceeds & nominal direct voltage). Besides, it shall operate the audible alarm of the charger and give an independent signal light (red) on the front panel. The correct voltage returns.

4. Under Voltage on Battery Bus

Arrangement shall be made for sensing under voltage on battery bus due to failure of regulator unit or any other reason. A separate indication shall appear on the front panel of the charger when the voltage on battery bus falls below a preset value which shall be adjustable from 80% to 100% of nominal direct voltage.

5. Capacitor Fuse Failure

A detection unit shall be fitted for sensing the blow off of capacitor fuse. It shall operate an audible alarm and give an independent signal light (Red) on the front panel of the battery charger.

6. Over Voltage on Load Terminal

A detection unit shall be fitted for sensing the abnormal (from the pre-set value) rise the output voltage on the load terminal. It shall operate an audible alarm and give an independent signal light (red) on the front panel. It shall be such that the charger stop to supply the current. The battery shall operate the load under such conditions.

7. Lamp Check

A lamp test facility shall be provided for all the indication lamps

8. Acknowledgment

A switch shall be provided to acknowledge the fault which shall put the alarm off leaving the indication intact. Upon removal of fault alarm circuit shall automatically be ready for next operation.

5.2.17 Acoustic Noise Level

The overall audio noise level of a completely assembled rectifier shall not exceed 60 dBs at a distance of one meter from the equipment.

5.2.18 **D.C. Grounding**

It shall be ensured that normal working of the charger shall not be affected due to any single polarity DC grounding.

5.3 **Construction**

5.3.1 The charger equipment alongwith its accessories shall be accommodated in at least 2mm thick strong steel cabinet suitable for floor mounting.

5.3.2 The cabinet shall be adequately ventilated for self cooling by natural convection of the ambient air. It shall, however, be made completely vermin-proof.

5.3.3 All components shall be easily accessible from the front of the cabinet which may be constructed as a hinged door. The door shall have a handle with provision for locking. Entries of cables for connection to AC main and station DC panel shall be provided through suitable cable glands.

5.3.4 Besides AC terminals, the chargers shall have two positive terminals (i.e. one for battery and the other for DC load) and two negative terminals (one for battery and other for load) on the output side. The positive terminal shall be marked “+B” and “+L” for battery and load respectively and coloured black. AC terminals shall be marked “AC”. All the markings shall be durable.

5.3.5 Following components shall be mounted on the front panel of the chargers. Each component shall be labeled permanently.

i. (a) A two position main switch for charger input ON/OFF with signal light (green)

1. Float
2. Boost
3. Automatic (Float/Boost)

- ii. The above settings may alternatively be achieved by separate toggle switches as follows:
 - 1. ON/OFF
 - 2. Float/Boost
 - 3. Automatic/Manual
- iii. Signal lights, (yellow) to indicate boost, float, auto and manual operation.
- iv. A miniature circuit breaker for charger output.
- v. Two miniature circuit breakers for charger outputs (1 for battery and 1 for load output)
- vi. Two Nos. 96 x 96 mm flush fitted DC ammeters (1 for battery and 1 for load circuit. Ammeter on battery circuit shall have 40-0-40 amperes range for 110 Voltage battery charger and 60-0-60 amperes range for 220 volts battery charger).
- vii. A 96 x 96 mm flush fitted AC voltmeter.
- viii. A 96 x 96 mm flush fitted AC voltmeter. This shall accompany a phase selector switch in case of 3-phase set.
- ix. Signal lights as per clauses 5.2.16.
- x. Test switch for A.C and D.C indication lights.
- xi. Switch to acknowledge A.C and D.C faults.

5.3.6 All wiring terminations shall be shrouded to avoid accidental short circuit or earthing of the battery. Where wiring is taken through sheets, the holes shall be fitted with glands or similar protection. The wiring along metal surfaces shall be carried through insulated cable ducts/trays properly fixed to the metal surface. The connections to various components of power circuit such as relays, instruments, circuit breakers and input & output shall be carried out via terminal.

5.3.7 An instructions manual along with a circuit diagram for the complete charger equipment shall be placed at a suitable place inside the cabinet. In

addition wiring diagram shall be pasted permanently at a suitable place inside the cabinet.

5.3.8 All interior and exterior surfaces of the cabinet shall be thoroughly cleaned to prepare the metal surface for painting. Three coats of paint shall be applied to give enhanced corrosion protection. The first coat shall be primer of zinc chromate and iron oxide or nay other primer which has equivalent weather resistance and rust inhibiting properties. The second coat shall be based on a synthetic resin with suitable properties for resistance to weathering. The third finish coat shall also be based on a synthetic resin and shall have a hard durable surface and excellent weathering properties. The total paint thickness shall be at least 0.12 mm. Finish colour shall be light grey.

5.3.9 Provision shall be made for earthing of the cabinet and a connector shall be provided to accommodate 95 sq.mm earthing conductor. Cabinet assembled from bolted panels shall use suitable washers to ensure electrical continuity of the structure.

6.0 **RATING PLATE**

6.1 A rating plate shall be fixed on front side of the cabinet which shall contain the following minimum information marked legibly in English. The rating plate shall be of durable material with silver background and marking imprinted or etched or embossed in black. The markings shall be non-fading.

1. Manufacturer's name or trade mark with type designation.
2. Wapda contract No. and date
3. Serial No.
4. Name of equipment i.e "Adjustable Rectifier Equipment.
5. Rated direct current
6. Nominal voltage of the charger
7. Rated AC supply voltage and indication for number of supply phases.

8. Rated frequency
9. Range of adjustment for:
 - i. Float voltage
 - ii. Boost Voltage
 - iii. Current Limiter
10. Power factor at 110-220V/25-40A applicable
11. Efficiency at 110-220V/25-40A
12. Duty class i.e. "100% continuous".

6.2 The rating plates for the sub assemblies e.g. thyristor stack, converter transformer etc., shall bear the following indications:

- a. Identification reference/manufacturer's type designation.
- b. Serial No.
- c. Number of input phases
- d. Rated input voltage and frequency
- e. Rated input current
- f. Rated output voltage
- g. Rated output current
- h. Efficiency for the converter transformer
- i. PIV and PFV ratings for thyristor bridge.

7.0 **LOSSES**

7.1 The manufacturer shall design the battery charger for minimum losses and the overall efficiency shall not be less than 80% at full load.

7.2 In the evaluation of battery charger tenders, following rates shall be used for the capitalization of losses.

US \$ 1.75/-per watt of overall losses at 25% rated direct current.

The capitalized cost of losses shall be added to the CIF/Ex-works price of battery charger to obtain adjudication price. The losses to be taken shall be

the total guaranteed losses at 25% rated direct current at rated D.C and A.C voltages and reference ambient conditions.

- 7.3 A penalty at twice the rate of the capitalized cost shall be payable by the contractor for the losses in excess of the guaranteed figures.

8.0 TESTS

8.1 General

- 8.1.1 The performance tests shall comprise type and routine tests on separate components, sub assemblies and complete chargers and a proper test certificate will be issued for each charger. The tests are intended to prove that the equipment complies with this specification and shall be performed in accordance with the best modern approved methods and latest applicable standards.

8.1.2 Type Tests

The components and sub assemblies of one charger and a complete charger in the group of chargers having same type, characteristics and rating shall be subjected to type tests. The certified tests results of all the type tests carried out by the manufacturer (s) shall be supplied. If a component or assembly is equal or similar to one previously tested the manufacture may submit a certified report of any previous tests at least equal to the requirements laid down herein in lieu of actual tests.

8.1.3 Routine Tests

All semiconductor devices and stacks, converter transformers and other components to be used in the chargers shall be subjected to manufacturer's routine shop tests before assembly into the charger. All the chargers shall be routine tested before delivery. The certified test results of all the tests carried out by the manufacturer shall be supplied.

8.2 **Tests for Complete Charger**

8.2.1 Following type and routine tests shall be carried out in accordance with the relevant clauses of IEC 146 (1973) or described hereunder:

8.2.1.1 **Type Tests**

- i. Visual inspection
- ii. Insulation test
- iii. Checking properties of protective devices.
- iv. Checking properties of current limiter
- v. Checking properties of alarm and annunciations.
- vi. Checking properties of smoothing circuit
- vii. Noise level test.
- viii. Verification of characteristics as per clauses 4.4.2 with help of oscilloscope.

8.3 **Test Method**

8.3.1 **Insulation**

The insulation test shall be performed to verify that the equipment complies with the requirements laid down in clause 4.3 of htris specification. The test will be performed as under:

- a. Test voltage will be applied between the DC terminals connected with each other and the housing for one minute. The AC terminal will be connected for one minute. The AC terminal will be connected with each other and with the housing.
- b. Test voltage will be applied between housing and the AC terminals connected with each other for one minute. The DC terminal will be connected with the housing.

- c. The insulation resistance will be measured at 1000 volt D.C (1000 V.D.C megger) to check conformity to the specified requirements of clause 4.3.2.

8.3.2 **Power Loss**

The power loss measurement test shall be performed for the load conditions given in clause 11.1.2 (item xiv) of this specification and at nominal voltage. The efficiency shall be determined by measuring input and output power by wattmeters of accuracy not below class 1 connected at input and output (load terminal) sides of the charger. The output power will be measured when the charger is set at maximum float voltage.

8.3.3 **Voltage Regulation**

The test for checking the voltage regulation shall be made to verify that the requirements of regulation stipulated in clause 4.4 of this specification are fulfilled. The accuracy of voltmeters and ammeter used for measurements of voltage and current shall be not below 0.5%. To verify the requirement of clause 4.4.2 a storage oscilloscope shall be used.

8.3.4 **Visual Inspection**

The chargers shall be inspected visually for checking conformance with clause 5 & 6 of this specification and the approved drawings.

8.3.5 **Checking Properties of Smoothing Circuit**

The rms value of ripple voltage in the output at any setting shall be measured by an oscilloscope connected at the output (battery terminal) of the charger when it is supplying to a purely resistive load. The ratio of the AC rms to DC voltage called the ripple factor will be determined to verify the requirements of clause 5.2.10 of this specification.

8.3.6 **Checking Properties of Alarm Annunciations**

Tests shall be performed to verify that the requirements of clause 5.2.16 in regard to the properties of alarms and annunciations are fulfilled. The tests shall be performed under conditions equivalent to those stated in clause 5.2. 16 for various alarms and annunciations.

8.3.7 **Checking Properties of Current Limiter**

The properties of current limiter shall be checked on a variable resistive load connected at the battery terminal to verify that the requirements of clause 5.2.8 are met.

8.3.8 **Protective Devices**

Checking the co-ordination of protective devices shall be done so far as is possible without stressing the components of the equipment above their rated overload currents. Tests shall be performed to check the operations of protective devices (circuit breakers relays etc.)

8.3.9 **Temperature Rise**

The temperature rise test shall be performed to verify the requirements of clause 4.2 of this specification at 50°C ambient. The temperature rise of the windings of transformer and filter choke shall be determined by measuring the resistance of winding and using the formula:-

$$T_2 = R_2/R_1 (235 + T_1) - 235$$

Where

R1 = Resistance of winding in cold state



Past Experience / Contracts

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



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

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

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

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

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

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

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

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

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

Current Contract Commitments / Works in Progress

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

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

Financial Situation and Performance

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

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

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

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

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

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

1. Financial data

Type of Financial information in (currency)	Historic information for previous <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 statements¹ for the *[number]* years required above; and complying with the requirements.

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

Average Annual Turnover (Annual Sales Value)

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

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

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

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

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

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

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

* Refer ITA for date and source of exchange rate.

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