Standard Bidding Document

PMU-215/26-27 Procurement of Capacitor Cell & Rack (Goods)

National

Single Stage-One Envelope

September 02, 2026

PMU HESCO (Hyderabad Electric Supply Company (HESCO)),Assistant Manager Procurement
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REQUEST FOR BIDS

PROCUREMENT OF GOODS

1. The **PMU HESCO (Hyderabad Electric Supply Company (HESCO))** has reserved Funds for the procurement planned for FY **2026-27**. The **PMU HESCO (Hyderabad Electric Supply Company (HESCO))** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the "**PMU-215/26-27 Procurement of Capacitor Cell & Rack**" with the reference of **"P104986"**

2. The **PMU HESCO (Hyderabad Electric Supply Company (HESCO))** 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 **Pay Order, Banker's Cheque, Call at Deposit, Bank Guarantee, Demand Draft** 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/104986** 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 **Tuesday, September 22, 2026 01:00 PM**. E-bids will be opened using **EPADS v2.0** on the same day at **Tuesday, September 22, 2026 01:30 PM**. Manual

submission of Bids shall not be entertained. Those vendors who have not yet registered on the new version of **EPADS v2.0,** may register themselves on https://vendors.epads.gov.pk/. A tutorial to explain the registration process is available at https://www.youtube.com/watch?v=MNW6T38v7tc

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).

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Instructions to Bidders

A. Introduction

1.Scope of Bids

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

2. Source of Funds

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

3. Eligible Bidders

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

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

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

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

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

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

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

1. are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consulting services for the preparation of the design, specifications and other documents to be used for the procurement of the Goods to be purchased under this Invitation for Bids.

2. have controlling shareholders in common; or

3. receive or have received any direct or indirect subsidy from any of them; or

4. have the same legal representative for purposes of this Bid; or

5. have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bids of another Bidder, or influence the decisions of the Procuring Agency regarding this Bidding process; or

6. Submit more than one Bid in this Bidding process.

3.7 A Bidder may be ineligible if –

1. he is declared bankrupt or, in the case of company or firm, insolvent;

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

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

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

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

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

4. Eligible Goods and Related Services

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

5. One Bid per Bidder

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

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

6. Cost of Bidding

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

B. Bidding Documents

7. Contents of Bidding Document

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

Section I -Invitation to Bids

Section II Instructions to Bidders (ITB)

Section III Bid Data Sheet (BDS)

Section IV Evaluation Criteria, Specifications, Schedule of Requirements

Section V Bid Forms

Section VI General Conditions of Contract (GCC)

Section VII Special Conditions of Contract (SCC)

Section VIII Contract Forms

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

8. Clarification of Bidding documents

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

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

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

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

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

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

9. Amendment of Bidding documents

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

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

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

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

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

C. Preparation of Bids

10. Language of Bid

10.1 The Bid prepared by the bidder, as well as all correspondence and documents relating to the Bids exchanged by the Bidder and the Procuring Agency shall be written in the English language unless otherwise specified in the BDS**.** Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant pages in the English language unless otherwise specified in the **BDS**, in which case, for purposes of interpretation of the Bidder, the translation shall govern.

11. Documents and samples Constituting the Bid

11.1 The Bid prepared by the Bidder shall constitute thedocuments 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 itsBid, 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 **<u>shall generate minutes through EPADS v2.0 containing brief details of bid opening process.</u>** 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 <u>before</u> **<u>three days prior to the deadline for submission of bids.</u>** 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)

Atter 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

32.1Where 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: **PMU HESCO (Hyderabad Electric Supply Company (HESCO))**

The subject of procurement is: **PMU-215/26-27 Procurement of Capacitor Cell & Rack**

Expected commencement date: **Friday, October 30, 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: **P104986**

BDS Clause Number 3
ITB Clause Number 3.1

JV/Consortium or Association Allowed: **Yes**
Number of JV/Consortium Members: **3**
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: Thursday, September 10, 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. Previous supply record (along with GRN/ supply Certificates etc
2. Technical data, drawings Brochures, and devitions if any

BDS Clause Number 6
ITB Number 11.1
Items/Lots and threre 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: **120 Days**

BDS Clause Number 11
ITB Number 18.1

The amount of Bid Security shall be as defined in Bid Security Section for items and lots given in **BDS 6**
The Bid Security shall be in the form of: **Pay Order, Banker's Cheque, Call at Deposit, Bank Guarantee, Demand Draft**

D. Submission of Bids

BDS Clause Number 12
ITB Number 20.1

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

PMU Office, Banglow No. A-1, Power Wing Colony, Hussainabad., Hyderabad, Hyderabad (District), Hyderabad (Division), Sindh (Province). before bid submission deadline.

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

The deadline for Bids submission is: **Tuesday, September 22, 2026 01:00 PM**

E. Opening and Evaluation of Bids

BDS Clause Number 13
ITB Number 23.1

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

Day *: **Tuesday***

Date: ***Tuesday, September 22, 2026***

Time *: **01:30 PM***

BDS Clause Number 14
ITB Number 31.1

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

F. Review of Procurement Decisions

BDS Clause Number 15
ITB Number 41.1

Grievence 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
Sole Proprietorship	NADRA CITIZENSHIP (CNIC/NICOP)
Partnership Firm	FBR (NTN)
Company (Private Limited)	FBR (GSTN)
Company (Public Limited)	

Evaluation Criteria

Eligibile 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
Capacitor Cell 200KVAR	Capacitor banks	**Address:** PMU Office, Banglow No. A-1, Power Wing Colony, Hussainabad., Hyderabad, Hyderabad (District), Hyderabad (Division), Sindh (Province). **Schedule:** 180 Days **Quantity:** 405/Qty	405/Qty	1500000 PKR	Manufacturer Authorization form	2 Years
Capcitor Rack with Discharge Fitting & Coupling Bus Bars	Capacitor networks	**Address:** PMU Office, Banglow No. A-1, Power Wing Colony, Hussainabad., Hyderabad, Hyderabad (District), Hyderabad (Division), Sindh (Province). **Schedule:** 180 Days **Quantity:** 12/set	12/set	150000 PKR	Manufacturer Authorization form	2 Years

Item	UNSPSC	Delivery Schedule	Quantity	Bid Security	Manufacturer / Dealer Authorization	Warranty
Capacitor Fuse 50K	Capacitor networks	**Address:** PMU Office, Banglow No. A-1, Power Wing Colony, Hussainabad., Hyderabad, Hyderabad (District), Hyderabad (Division), Sindh (Province). **Schedule:** 180 Days **Quantity:** 360/Qty	360/Qty	30000 PKR	Manufacturer Authorization form	2 Years

Related Services of Goods:

No

Items/Lot Specification

Items Without Lots :

Item: Capacitor Cell 200KVAR

UNSPSC: Capacitor banks

Specifications / Requirementsss:

as per WAPDA/ NTDC SPECIFICATION P-78:2010 the documents attached

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Item: Capcitor Rack with Discharge Fitting & Coupling Bus Bars

UNSPSC: Capacitor networks

Specifications / Requirementsss:

as per WAPDA/ NTDC SPECIFICATION P-165:89 the documents attached

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Item: Capacitor Fuse 50K

UNSPSC: Capacitor networks

Specifications / Requirementsss:

as per WAPDA/ NTDC SPECIFICATION P-165:89 the documents attached

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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: PMU HESCO (Hyderabad Electric Supply Company (HESCO)), Assistant Manager Procurement PMU Office, Banglow No. A-1, Power Wing Colony, Hussainabad., Hyderabad, Hyderabad (District), Hyderabad (Division), Sindh (Province).

The Supplier is:

The title of the subject procurement is: PMU-215/26-27 Procurement of Capacitor Cell & Rack

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:

PMU HESCO (Hyderabad Electric Supply Company (HESCO)), Assistant Manager Procurement
PMU Office, Banglow No. A-1, Power Wing Colony, Hussainabad., Hyderabad, Hyderabad (District), Hyderabad (Division), Sindh (Province).
+92-337-219-2717
amprocpmu@hesco.gov.pk

Contractor/ Bidder:

[Name, address and telephone number].

The Contractor/ Bidder's Representative(s)

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

Number of GC Clause 7.1

The Authorized Representatives are:

For the Procuring Agency:

PMU HESCO (Hyderabad Electric Supply Company (HESCO)), Assistant Manager Procurement
PMU Office, Banglow No. A-1, Power Wing Colony, Hussainabad., Hyderabad, Hyderabad (District), Hyderabad (Division), Sindh (Province).
+92-337-219-2717
amprocpmu@hesco.gov.pk

For the Bidder:

Name: ………………………

Designation: ……………..

Address: ……………………………..

Number of GC Clause 8

Effectiveness of the contract

Number of GC Clause 9

Commencement of Contract:

Number of GC Clause 11.2

Expiration of Contract:

Number of GC Clause 15

Termination

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

Number of GC Clause 17

Conflict of Interest:

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

Number of GC Clause 22

Liquidated Damages

If the Bidder fails to provide services as required under the contract or in case of any data loss/data breach or any incident compromising the data security or other such failures related to any services, the Bidder shall pay to the Procuring Agency as Liquidated Damages at a rate of **0.06%** 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 **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 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)

Two authorized representatives of Director General (Procurement) will carry out pre delivery inspection at manufacturer works at supplier expenses including travelling (return air tickets for places of inspection located out of Hyderabad), local transportation, boarding & lodging in any A class accommodation and daily allowance (including travel time), as per Govt. of Pakistan Policy. The said payment will be made to the inspectors before issuance of Inspection Certificate.

Delivery & Documents

Supplier’s invoice in triplicate showing Goods’ description, quantity, unit price, and total amount

Delivery Challan duly acknowledged and signed by the consignee.

GRN issued by concerned Deputy Manager, Regional Store HESCO MCPL Workshop Jamshoro.

Warranty Certificate as per warranty clause.

Inspection Certificate as per inspection clause

Confirmation letter of acceptance of performance Bond/Security by the Manager (Procurement) PMU HESCO.

Certificate to the effect that the billed amount has not been claimed or received earlier (Non-payment certificate).

Professional Tax paid certificate by the firm (if applicable).

All Federal & Provincial Taxes will be applied as per prevailing laws.

Copy of General Sales Tax/Excise Duty Invoice.

the manufacturer/supplier in its invoices shall also give an undertaking, in case of omission of any deductible amount; HESCO's claim at any later stage (through pre-audit / post audit) shall be acceptable to them.

As per directions of FBR dated. 3.9.2015 conveyed vide C.E (Operation) PEPCO vide letter No. 1918-28 dated. 17.09.2015, the payment to the registered persons may be linked with the active taxpayer status of the suppliers as per FBR database.

Integrity pact (if applicable) on prescribed Performa duly signed and stamp.

Visual inspection certificate issued by inspector at the time of delivery in store.

Visual inspection certificate confirming the quantity, accessories (if any), packaging etc are consistent with relevant contract Clauses issued by Deputy Manager Regional Store at the time of delivery in store.

Sales Tax return cum payment Challan for the month of delivery of material.

Copy of GRN duly stamped and signed by the respective consignees.

Sales Tax Invoice as per GRN above.

Any increase/decrease in the existing tariff of custom duty/Sales tax or any other tax is imposed or charged by the Government of Pakistan/Provincial Government, the same will be adjusted by the Manager Project Financing PMU on production of documentary evidence.

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.:***P104986***

To: **PMU HESCO (Hyderabad Electric Supply Company (HESCO)), Assistant Manager Procurement PMU Office, Banglow No. A-1, Power Wing Colony, Hussainabad., Hyderabad, Hyderabad (District), Hyderabad (Division), Sindh (Province).**

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 **PMU HESCO (Hyderabad Electric Supply Company (HESCO)), Assistant Manager Procurement PMU Office, Banglow No. A-1, Power Wing Colony, Hussainabad., Hyderabad, Hyderabad (District), Hyderabad (Division), Sindh (Province).**

(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-215/26-27 Procurement of Capacitor Cell & Rack (*P104986*)** 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 BYTHE 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 time 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: **PMU HESCO (Hyderabad Electric Supply Company (HESCO)), Assistant Manager Procurement PMU Office, Banglow No. A-1, Power Wing Colony, Hussainabad., Hyderabad, Hyderabad (District), Hyderabad (Division), Sindh (Province).**

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

Technical Specifications/requirement

Bidder offer the material as per the specification/requirement attached.

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Technical Specifications/requirement** (page number: 69)

Technical Specifications/requirement

Bidder offer the material as per the specification/requirement attached.

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Technical Specifications/requirement** (page number: 81)

Price Schedule for Tender

The**Grand Total Price**must be same as the Bid Quoted Price

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Price Schedule for Tender** (page number: 100)

Past Experience and Completed Contracts

annexure forPast Experience and Completed Contracts

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Past Experience and Completed Contracts** (page number: 101)

Procurement Forms

Past Experience and Completed Contracts

For the qualification of the bidder regarding thepast experienceandcompleted contracts detailed document is attached in the Annexures attached at the end.

See Form Under Additional Forms and Documents: **Past Experience and Completed Contracts** (page number: 102)

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

Litigation History

Bidders are requested to submit details of all litigation, arbitration and other claims whether pending, threatened or resolved in the last five years. The above stated information should be completed as per prescribed format and submitted along with required attachments.

The missing or incomplete information / documents may render the bid substantially non-responsive. In this regard, the Purchaser does not have an obligation to request any document / certificates.

See Form Under Additional Forms and Documents: **Historical Contract Non-Performance, and Pending Litigation and Litigation History** (page number: 103)

Financial Capacity and Net Worth Evaluation Form

Financial Criteria

-The bidder should have sound financial health. In order to determine the same, the bidder shall provide its up to date audited financial statements/ other financial statements acceptable to employer i.e. balance sheet, income statement, and cash flow statements for the last 3 years (three years). The bidder's Net worth for each last 3 years should be positive. In this context the bidder is required to fill in the relevant forms of this bidding document and submit the same with the bid.

-A bidder/or all partners combined in case of JV has to have sufficient financing sources, liquid assets, unencumbered real assets, lines of credit, available to meet the total cash flow demands of the contract. The cash flow availability be at least 25% of the estimated amount.

See Form Under Additional Forms and Documents: **Financial Capacity and Net Worth Evaluation Form** (page number: 105)

Average Annual Turnover

The bidder shall have an *average annual turnover in the last 3 years equal to or more than that 1.5 times of the estimated price*. The annual turnover of partners in a JV shall be calculated by summing their individual turnovers. In case of JV, all JV partners shall combine meet the said requirement

See Form Under Additional Forms and Documents: **Average Annual Turnover** (page number: 107)

Additional Forms and Documents

C O N T E N T S

PRINTING HISTORY

First approved on October, 1982

First Amendment on December, 1982.

Revised and Amended Edition, 1989.

SPECIFICATION P-165:89

11,000 VOLT CAPACITOR BANKS AND CONTROL EQUIPMENT

0 FOREWORD

0.1 This specification has been prepared by the Standard and Research Directorate of Design Department, Power Wing, WAPDA.

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

0.3 The specification for 11,000 Volt Capacitor Banks and Contact Switchgear was first issued in 1982. Later in 12/82 its amendment No.1 was issued. The Specification of Switchgear was mainly based upon P-44:79 Specification for 11,000 Volt Metalclad Switchgear. P-44 has since been revised twice and at present its 1987 edition is in force. Thus the changes in P-44 are required to be incorporated in P-165. Recently Capacitor Switch conforming to Specification P-185:89 has been introduced to control each 2.4 MVAR Section of the Capacitor Bank. Necessary changes in bus bar sizes and confirguration have been made to accomodate the Capacitor Switch. The revised edition, incorporates besides other addition/alteration, the Amendment No.1 dated December, 1982.

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

1 SCOPE

1.1 This specification covers materials, ratings, characteristics, construction detaials and tests for capacitor banks and control switchgear to be installed in substations.

1.2 A Capacitor Bank shall comprise of the following:

- i) Capacitors of 100 or 200 kVAR rating
- ii) Racks for mounting of capacitors
- iii) Expulsion type fuses for protection of individual capacitors
- iv) Bus work, insulation and mounting arrangement
- v) Other accessories.

The size of standard rack shall be 2400 kVAR. Racks shall be capable of being assembled together to form larger single banks.

The specification for Power Capacitors are covered separately under WAPDA Specification P-78:82.

1.3 The Control and Switching Equipment shall comrise of 11kV indoor switchgear alongwith necessary relays and accessories for switching and protection of capacitor banks. Cables for connection with the out-door capacitor banks are not included.

2 SERVICE CONDITIONS

2.1 Climatic Conditions

2.1.1 Atmospheric Conditions

It may be assumed that the air is not normally heavily polluted by dust, smoke, corrosive or flammable gases, vapours or salt. However at certain times of the year, severe dust storms may be experiended. Fine dust particles are present in the air and these are desposited on exposed surfaces.

2.1.2 Ambient Temperature

Maximum	50°C
Maximum mean over any 24 hours	45°C
Mean in any year	30°C
Minimum	-10°C

2.1.3 Relative humiditymay range upto 100%.

The maximum value of the ambient temperature and humidity however do not occur simultaneously. During the monsoons high humidity may persist for many days at a time.

2.1.4 Altitude

Installation upto 1000m above sea level.

2.2 Supply System

2..2.1 The capacitor banks shall be suitable for installation in A.C. supply system of the following characteristics:

Nominal System Voltage	11kV
Nominal Voltage at Grid Stations	11.5kV
Rated Voltage	12kV
Frequehcy	50 Hz

3 GENERAL REQUIREMENTS

3.1 The capacitor banks shall be supplied as complete units in factory assembled form or in knock down condition which shall be assembled at site of erection. The unit block rating shall be 2400 kvAR and shall be supplied with properly sized bus bars, necessary insulators, unit earthing switch or separate earthing kit and other equipment as detailed in Clause 1.1.

3.2 The capacitor banks shall be erected outdoor in the switchyard. The capacitors shall be connected through metalclad switchgear panel to 11kV bus bar of the installed sub station for automatic switching of the capacitor banks. This switchgear panel shall be erected next to the incoming panel and busbars of both jointed together such that to each incoming transformer, one capacitor bank feeder is available.

General layout of the banks is given in drawing No. PDW/DF-383 Standard Switched Bank Capacitors are 2400, 3600, 4200, 6000 & 7200 kVAR.

3.3 Racks capacitor banks shall be switched on for improving 132/66kV side votlage so that the specified voltage level be maintained. The capacitor banks shall be switched off beyond certain voltage level. For this purpose voltage and time sensitive automatic switching controls shall be used. The equipment details are given in clause 4.3.4.

3.6 Capacitor banks shall be designed for the following insulation level:

i)	Rated lightning impulse withstand voltage	..	95kV
ii)	Rated one minute power frequency voltage (rms)	..	34kV

The minimum clearances shall be as under:-

Phase to phase	..	160mm
Phase to ground	..	125mm

3.7 The capacitor banks shall be supplied with built in earthing switch or a separate earthing kit to assure maintenance personnel safety while working on or around capacitor banks. The built in switch shall be mounted on capacitor mounting frame and operatable with a hook stick. The design of the séparate earthing kit or built in earthing switch shall be provided by the manufacturer withthe tender documents.

4 SWITCHGEAR PANEL

4.1 The switchgear shall be of the indoor type meant for automatic switching of the capacitor banks. It shall generally conform to Wapda Specification P-44:87 except as mentioned herein.

4.2 Panel Components

4.2.1 Each panel shall comprises the following equipment:

1. One Circuit Breaker
2. Three current transformers for over current protection and metering
3. Instruments
4. Relays
5. Hooter
6. Cable Termination Pad
7. Signalling Lamps ON/OFF Indications

4.3 Circuit Breaker

4.3.1 General

4.3.1.1 Circuit Breaker shall be of 25 KA breaking capacity. It shall be triple pole and all the three poles shall be coupled so as to operate simultaneously. The breaker shall be draw out type suitable for indoor installation. The breakers shall be vacuum or SF6 types.

4.3.1.2 The breaker shall be capable of interrupting the required range of capacitor currents without restriking and allow capacitor currents to persist without making serious attempts at interruption until sufficient contact separation is reached which is able to withstand the recovery voltage twice as high as system voltage at half cycle after the first current pause.

4.3.1.3 The breakers shall be suitable for Electrical and Mechanical Switching operations as under:

1. Electrical: Switching operations at rated load : 10,000.
2. Mechanical: Switching operations : 10,000.

4.3.1.4 The closing springs of breakers shallb e charged by an AC motor rated at 240V AC.

4.3.2 Characteristics and Ratings

The breaker shall have the following characteristics:

1. Current rating 630 Amps

2.	Rated Voltage	12 kV
3.	Frequency	50 Hz
4.	Capacitor Switching Current	500 A
5.	Breaking Current Symmetrical	25 kA
6.	Making Current	63 kA
7.	Rated one minute power frequency withstand voltage	36 kV
8.	Rated lightning impulse withstand voltage	95 kV
9.	Operation Duty	0-3mh-CO-3mn-CO
10.	Total maximum break time	6 Cycles

4.3.3 Busbars

4.3.3.1 The busbars shall conform in general to clause 13 of wapda Specification P-44:87. The size of busbars shall be 2x100x10 so that they can be jointed to the incoming busbars standardised vide Dwg: No.PDW/TS-1630 of P-44:87. The busbar connections and joints shall be as detailed in Dwg: No. PDW/DF-297 of P-44:87.

4.3.4 Voltage and Time Sensitive Control

4.3.4.1 The voltage and time sensitive automatic capacitor switching control shall be of single pole type, flush mounted and suitable for installation in the switch-gear instrument compartment on the front door. The scale and range of operations shall be suitable for switching a 7200 kVAR capacitor bank. The accuracy shall be 2% of the full scale. Selector switches shall be provided for manual or automatic operation through "Automatic-Manual" and open-Neutral-Close switches.

4.3.4.2 The voltage sensitive control shall measure 132 & 66kV line voltage and as function of that quantity control the relay which in turn shall operate the switchgear. The relay shall be electronically controlled with an adjustable time delay. The instrument shall also be provided with adjustable band width range for setting switching IN and OUT voltages so that little variation in voltage shall not cause hunting.

4.3.5 Protection

5.3.5.1 110 Volts AC and a current of 5 Amps shall be available fromthe secondary voltage of the PT & CT respectively.

4.3.5.2 All the panels shall have overcurrent and earth fault protection which shall be provided by means of inverse induction type relays with two overcurrent elements and one earth fault element. The relay shall have three instantaneous elements. The relays shall conform to clause 14 of Wapda Specification P-44:87.

4.3.5.3 The capacitor unbalance detection relays shall be suitable for operation from a 5 Amps secondary of the bank neutral current transformers. The relays shall be of 2 steps type, the first step to give alarm on the failure of one capacitor unit and the second step to trip the breaker on the failure of the second capacitor unit.

4.3.5.4 The neutral unbalance protection scheme for the capacitor bank shall consist of double star with neutral connected to the current transformer as shown in Fig.2 CT's shall be mounted at a suitable place on the structure and shall operate the relay described in Clause 4.3.5.3.

4.3.6 Current Transformers

4.3.6.1 The current transformers shall conform in general to clause 15 of P-44.

4.3.6.2 For overcurrent protection and metering the current transformers shall have 400/200/5-5 transformers ratios.

4.3.6.3 The outdoor capacitor bank neutral current transformers shall be totally epoxy-resin covered or porcelain insulator type and completely weather proof. The primary current rating shall be 50A whereas the secondary current shall be 5A. The accuracy class shall be 5P20. The characteristics of insulator shall be as follows:

Min creepage distance	= 300mm
Dry arcing distance	= 150mm
Dry one minute Power Frequency withstand voltage	= 36kV
Lighting impulse withstand voltage	= 95kV

4.3.7 Voltage Transformers

The voltage transformer shall not be supplied. The secondary voltage of 110 Volts AC fromt he existing voltage transformer in the substation shall be used to operate the instruments and relays on the switchgear panels of the capacitor banks.

4.3.8 Instruments

The switchgear panel shall be provided with the following instruments:

1. One voltmeter 0-15kV with selector switch
2. Three ammeters 0-250-500 Amps, one in each phase.

4.3.9 Control Wiring and Termination

The control cable and switchboard wiring cable shall conform to Wapda Specification P-100. The minimum size for voltage and current circuits shall be 2.5 sq. mm and 4 sq.mm respectively. The wire colour code and termination method shall be as per clause 18 of P-44:87.

4.3.10 Circuit Connection

Each panel shall have position for connelction to outdoor capacitor bank through two 240mm^2 cables per phase. Space shall be provided for above cable connection with dry termination.

4.3.11 Tests

The switchgear panels shall be subjected to type and routine tests as listed in clause 22 of P-44:87. Certified type test reports may be accepted in lieu of the actual test.

5 STRUCTURE FOR CAPACITOR BANKS

5.1 General

The mounting structure shall be of extendable unit construction, each unit being suitable for 2400 kVAR capacitor bank with provision for mounting of fuses, cable terminations, insulators and rigid buses. The layout of the capacitor bank shall generally be in accordance with Drawing No. PDW/DF-383. The manufacturer shall offer alternate suitable design subject to approval of Wapda.

5.2 Material

All parts of the bank structure shall be made of hot dip galvanised steel sections having the following characteristics:

Tensile strength	41-56 kg/mm^2
Min. Yield point	23 kg/mm^2
Min. elongation	20% on 200mm gauge length

5.3 Construction Requirements

5.3.1 The steel structures shall be of bolted type construction and designed with sufficient stiffening and cross bracing to adequately perform their functions under maximum conditions of loading and wind pressure of 150 150 kgs/sqm without any vibrations.

5.3.2 All steel parts including nuts and bolts shall be hot dip galvanised in accordance with Wapda Specification P-82:. The average and minimum weight of zinc coating shall be 610 and 550 gm/sq meter respectively.

5.3.3 The capacitor bank shall generally be constructed in accordance with drawing No. PdW/DF-383 and shall meet the following requirements:

i) Centre to centre distance of the capacitor unit	250mm
ii) Minimum mounting height of the capacitor unit (bushing top)	2500mm
iii) Minimum height of the busbar	3000mm

5.4 <u>Tests</u>

The steel structures shall be subjected to the following tests:

i) Visual Examination

ii) Verification of Dimensions as per approved manufacturer's drawings.

iii) Galvanising tests as per Wapda Specification P-82.

iv) Tensile Tests as per ISO/R-82.

6 BUS BARS

6.1 A set of three round or rectangular bus bars of 98% IACS electrical conductivity copper for connection to capacitors shall be provided. The size of bus bar shall be as per dwg. No. PDW/DF-383 (revised).

6.2 The manufacturer shall design the bus bars and joints so that temperature rise at joints and connections shall not be more than 40°C and shall submit all such design details with the bid.

6.3 The bus bars shall be of sufficient mechanical strengt and rigidly supported over insulators as to withstand mechanical forces resulted from the short circuits.

6.4 All bus bars shall be insulated to prevent flashovers due to lizards and small birds etc; preferably with heat shrinkable tubing of polyolefine. Snap on PVC or equivalent material covers shall be provided at all joints and connectors. The thickness of insulatio

	50 K	25 K
Dry one minute power frequency withstand voltage to ground	35kV	35kV
Wet one minute power frequency withstand voltage to ground	30kV	30kV
Temperature rise at rated current	40°C	40°C
Fuse link rating	50 K	25 K

7.4 Tests

7.4.1 All tests shall be carried out in accordance with IEC Publication IEC 549.

7.4.2 Certified type test reports may be accepted in lieu of the actual tests.

7.4.3 All fuses shall be subjected to routine tests by Wapda at the manufacturers works.

8 TECHNICAL DATA AND DRAWINGS

8.1 The manufacturer shall include in his offer complete engineering and test data with complete dimensional drawings, showing front, side and plan views of the complete capacitor bank and of individual parts. All leading dimensions and clearances in millimeters shall also be indicated.

Encls: Drawing No. PDW/DF-383(revised)

YK

shall be such as to withstand at least twice the rated voltage continuously. The manufacturer shall supply mechanical and electrical characteristics of the insulating materials.

.5 All bus bars joints and connectors shall be tin or silver plated.

.6 The bus bars shall be capable of being extended without difficulty on either side and provision shall be made for withstanding expansion and contraction of the bus bars and connections due to variations in temperature over a range of 80°C.

7 EXPULSION FUSE

7.1 The expulsion fuse for protection of the capacitors shall be outdoor type and shallbe manufactured and tested in accordance with IEC Publication 549 and 282 and the requirements listed herein.

7.2 Constructional Requirements

7.2.1 The fuse shall generally be constructed for installation on switched capacitor banks as shown in general arrangement Drawing No. PDW/DF-383 (revised).

7.2.2 The design of the fuse shall be such that blown fuse is indicated and shall be detectable from the ground. Also there shall be no possibility of tracking and flashovers during its life time. The fuse length shall be replacable type.

7.2.3 The contact design shall assure positive contact engagement and shall be tin or silver coated. The minimum thickness of silver coating shall be 20 microns.

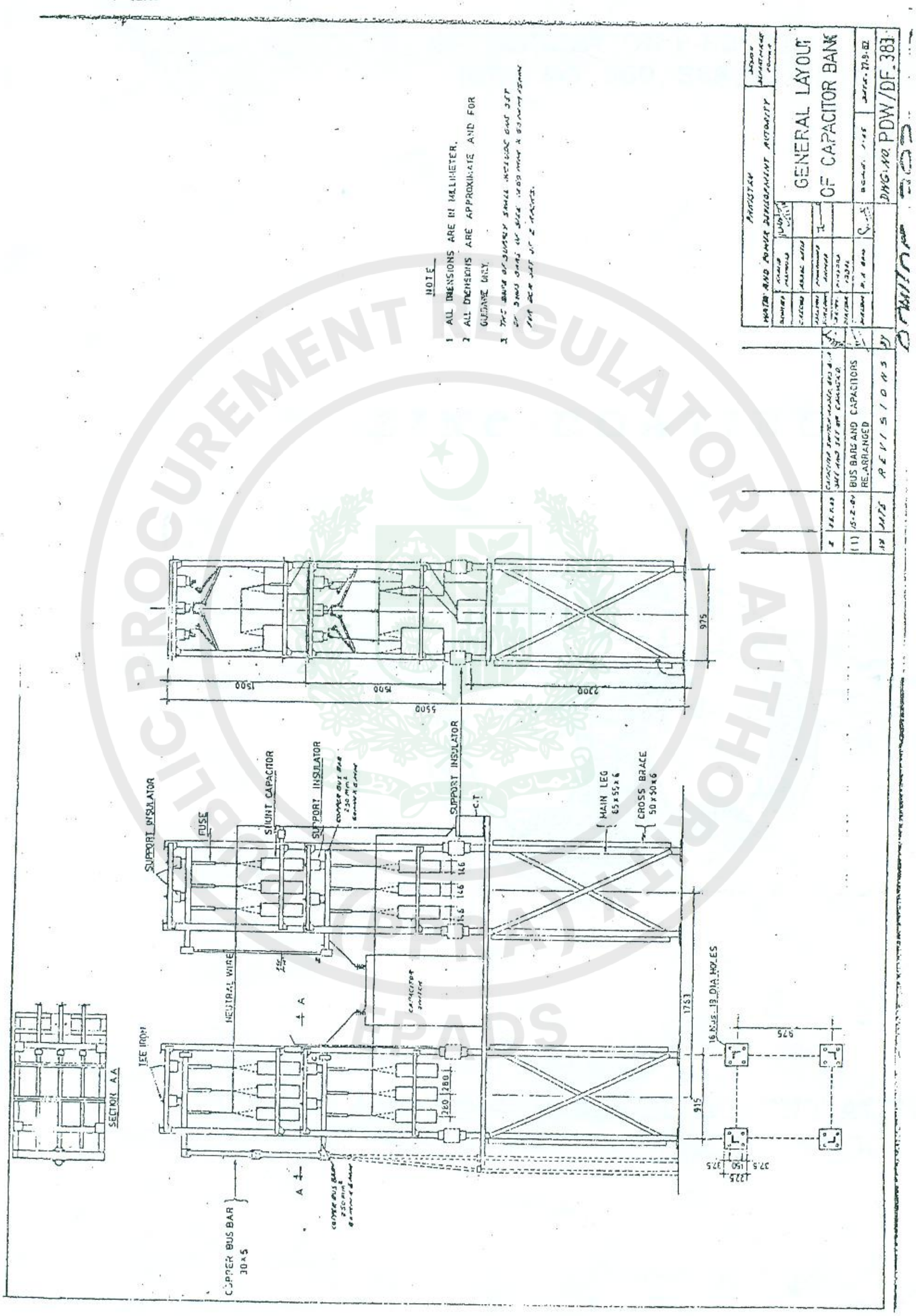
7.2.4 The terminals shallbe made of copper or brass materials and tin plated.

7.2.5 The standard fuse link for protection of 200 kVAR capacitor shall be 50K and for 100 kVAR capacitor shall be 25K. The time current characteristics of the fuse links shall be supplied.

7.3 Ratings

The fuse shall have the following ratings:

	50 K	25 K
Nominal voltage	11.5 kV	11.5 kV
Rated continuous current	50 Amps	25 Amps
Rated interruption current	5000 Amps	5000 Amps
Impulse withstand voltage to ground	95 kV	95 kV


NOTE
1 ALL DIMENSIONS ARE IN MILLIMETER.
2 ALL DIMENSIONS ARE APPROXIMATE AND FOR GUIDANCE ONLY.
WATER AND POWER DEVELOPMENT AUTHORITY
GENERAL LAYOUT OF CAPACITOR BANK
DWG.NO. PDW/DF.383
BUS BARS AND CAPACITORS RE-ARRANGED
REVISIONS
SUPPORT INSULATOR
FUSE
SHUNT CAPACITOR
SUPPORT INSULATOR
C.T
MAIN LEG 65x65x6
CROSS BRACE 50x50x6
NEUTRAL WIRE
TEE IRON
SECTION AA
COPPER BUS BAR 30x5
16 Nos. 19 DIA HOLES
1500
1500
2500
5500
975
1753
915
280
146

NATIONAL TRANSMISSION AND DESPATCH COMPANY

NTDC SPECIFICATION P-78:2010

SINGLE PHASE SHUNT CAPACITOR, 12/$\sqrt{3}$kV, 100 & 200KVAR

DESIGN DEPARTMENT NTDC

CONTENTS

PRINTING HISTORY

First Edition..................January, 1971
Second Edition..........September, 1982
Third Edition.................March, 1993
Fourth Edition...........November, 2010

NTDC SPECIFICATION P-78:2010

SINGLE PHASE SHUNT CAPACITOR, 12/√3kV, 100 & 200KVAR

0.0 FOREWORD

0.1 This specification has been prepared by Standards & Research Directorate of the Design Department NTDC. This fourth edition cancels and replaces the earlier editions published in 1971, 1982 & 1993 and its amendments.

0.2 This specification is intended for the procurement of material but does not include all the necessary provisions of the contract.

0.3 This specification is subject to revision as and when required by S&R directorate of Design NTDC only. No other department is authorized to make/issue amendment in the said specification.

1.0 SCOPE

1.1 This specifications is applicable for outdoor, non-enclosed, externally fused, 12/√3kV, single Phase shunt capacitors intended for use on 11.5kV bus of Grid Station to be mounted on capacitor racks to form capacitor banks for power factor correction and improvement of voltage. The specification of rack for mounting of capacitors to form a 2400KVAR capacitor bank with control equipment is covered under NTDC specification P-165 amended to date.

2.0 REFERENCE STANDARDS

2.1 The capacitors shall generally be designed, constructed and tested in accordance with the International Electro-technical commission publication 60871-1 & 60871-2 amended to-date.

2.2 In case the requirements laid down herein differ from those given in the IEC 60871 in any particular aspect, the requirements listed herein shall prevail.

3.0 DEFINITIONS

The definitions of IEC 60871 shall apply. Some of them are reproduced here for ease of reference.

3.1 Capacitor Element

A device consisting essentially of two electrodes separated by a dielectric.

3.2 **Capacitor Unit**

An assembly of one or more capacitor elements in the same container with terminals brought out.

3.3 **Discharge device of a Capacitor**

A device which may be incorporated in a capacitor, capable of reducing the voltage between the terminals practically to zero, within a given time, after the capacitor has been disconnected from a network/supply system.

3.4 **Rated Capacitance of a Capacitor (Cn)**

The capacitance value derived from the values of rated output, voltage and frequency of the capacitor.

3.5 **Rated Output of a Capacitor (Qn)**

The reactive power for which capacitor has been designed.

3.6 **Rated Voltage of a Capacitor (Un)**

The r.m.s value of alternating voltage for which the capacitor has been designed.

3.7 **Rated Current of a Capacitor (In)**

The r.m.s value of the alternating current for which capacitor has been designed.

3.8 **Capacitor Loss**

The active power dissipated in the capacitor, i.e, losses produced from all components for example: dielectric, internal discharge resistor, connections, internal fuse if available, etc.

3.9 **Tangent of Loss Angle (tan δ)**

The ratio between the equivalent series resistance and capacitive reactance of the capacitor at specified sinusoidal alternating voltage and frequency.

3.10 **Steady State Condition**

Thermal equilibrium attained by the capacitor at a constant output and at constant ambient temperature.

3.11 Residual Voltage

The voltage remaining on the terminals of capacitor at a certain time following disconnection.

4.0 SERVICE CONDITIONS

The shunt capacitors shall be suitable for satisfactory operation under the following service conditions:-

4.1 Climatic Conditions

4.1.1 Ambient Temperature

Maximum	50°C.
Maximum mean over any 24 hours	45 °C.
Mean in any year	30 °C
Minimum	-10 °C

4.1.2 Relative Humidity

The relative humidity may range from 0 to 100 percent. The maximum value of the ambient temperature and humidity, however, do not occur simultaneously. During the monsoons, high humidity may persist for many days at a time along with temperatures ranging from 30°C to 40°C.

4.2 Altitude

The capacitors shall be suitable for installation up to 1000 m above sea level.

4.3 Atmospheric Conditions

It may be assumed that the air is not normally heavily polluted by dust, smoke, aggressive gases, vapours or salt spray. However, at certain times of the year severe dust storms may be experienced.

4.5 Supply System

4.5.1 The shunt capacitors shall be installed in three phase Y connected capacitor banks having the following characteristics;

Nominal single phase voltage	$11.5/\sqrt{3}$kV
Nominal voltage line to line	11.5kV
System highest line to line voltage	12 kV
Frequency	50 Hz.

4.5.2 The neutral of 11.5kV systems is solidly earthed at the power transformer. The capacitors may be used in grounded or ungrounded Y connection.

5.0 RATINGS AND CHARACTERISTICS

5.1 The shunt capacitors shall be so designed as to comply with the following ratings, characteristics:

Sr. No.	Description	
i.	Rated Output, Qn	100/200 KVAR
ii.	Rated Voltage, Un	$12/\sqrt{3}$kV
iii.	Rated Frequency, fn	50 Hz
iv.	Rated current, In	14.43/28.86A
v.	Rated capacitance, Cn	6.63/13.26μF
vi.	Lightning Impulse Voltage withstand, 1.2/50μs to 5/50μs.	95 kV, peak
vii.	AC Voltage withstand between bushing terminals	2.0Un for 10s
viii.	AC voltage withstand between bushing terminals and container.	38kV for 60s
ix.	AC voltage withstand between bushing terminals and container with rain	38kV for 60s
x.	Residual voltage	50V within 300s
xi.	Standard Temperature category.	-10 °C to 55°C.
xii.	Material of bushing.	Porcelain
xiii.	Rated voltage.	12kV
xiv.	Power frequency withstand voltage.	38kV for 60s
xv.	Lightning Impulse Voltage withstand, 1.2/50μs.	95 kV, peak
xvi.	Creepage distance of Bushing.	350mm
xvii.	**Melting point of solid dielectric**	≥140°C
xviii.	**Characteristic of Dielectric fluid**	
	i) Density at 20°C, g/cm³	0.99—1.02
	ii) Flash point	≥135°C
	iii) Dielectric dissipation factor, tan δ at 90 °C	≤0.005
	iv) Pour point, °C	≥- 40°C
	v) Dielectric strength, min.	≥40kV

5.2 PERMISSIBLE OVERLOADS

5.2.1 Maximum Permissible AC Voltage

Capacitor unit shall withstand the following over voltage levels for specified durations:

Voltage Level	Duration
1.0 Un	Continuous, the highest average value during any period of capacitor energization.
1.10Un	12 hour in every 24h due to system voltage regulation and fluctuations.
1.15Un	30 Minutes in every 24 h due to system voltage regulation and fluctuations.
1.20Un	5 Minutes due to voltage rise at light load
1.30Un	1 Minute

5.2.2 Maximum Permissible Current

Capacitor units shall be suitable for continuous operation at an rms current of 1.30 times the current that occurs at rated sinusoidal voltage and rated frequency excluding transient.

5.2.3 Tolerance in KVAR Output

Capacitors units shall be designed to give output between –5% and +10% of rated value at rated voltage and frequency.

6.0 CONSTRUCTIONAL REQUIREMENTS

6.1 The capacitor units shall consist of flattened rolls of dead soft, annealed Aluminum foil between sheets of high strength all film or film/paper dielectric.

6.2 The element shall be suitably supported in a stainless steel tank of welded constructions whose dimensions are shown in Drawing No. PDW/DF-386. The tank shall be capable of withstanding the maximum stress likely to be encountered during short circuit conditions without bursting.

6.3 The grade of stainless steel shall be such that welding does not cause deterioration of its rust resistant properties around the weld.

6.4 The bushings shall be made from good commercial grade wet process porcelain conforming to relevant IEC/international standard. The entire surface of the bushing with exception of a firing surface shall be smoothly glazed and shall be free from imperfections. The bushings shall be hermetically sealed (solder/weld) to the tank cover to prevent ingress of moisture and air. Rubber or synthetic materials, gaskets or washers shall not be used for sealing.

6.5 The capacitors shall be hermetically sealed and completely filled with a stable, non-toxic, high dielectric liquid. The liquid shall be non-PCB i.e. shall not contain any chlorine or mixture of chlorinated benzenes and shall be easily and safely disposable.

6.6 The capacitors shall be dehydrated under high vacuum and temperature. The manufacturer shall ensure complete impregnation of the film and the insulation oil shall be completely refined and degasified, not to leave any gas or impurities in the case, which may cause deterioration of the dielectric.

6.7 The terminals leads shall be brought out to terminal studs through top mounted porcelain bushings.

6.8 Each terminal shall be provided with a tinplated parallel groove clamp, spring washer nut. The clamp shall be capable of accommodating two Aluminum/Copper conductors of 7-10 mm dia. The tin used in the coating shall conform to relevant BS, ASTM standards. The minimum average thickness of tin coating shall be 0.05mm.

6.9 The capacitors shall be fitted with a discharge device inside the tank. The resistor of discharge device shall be capable of draining the residual charge to 50 volts or less within 5 minutes after the capacitor is disconnected from the supply voltage of $\sqrt{2}$Un.

6.10 The tank of the capacitor shall have two mounting brackets – one on each narrow side of the tank welded solidly to it and shall be suitable for mounting in capacitor racks standardized as per NTDC specification P-165 and also used as lifting the capacitor.

6.11 The tank and bracket shall be painted with a suitable primer and a durable, light grey/silver grey finish coat, resistant to severely corrosive atmosphere and having excellent heat dissipation. A bonding surface shall be provided on the underside of each support bracket to electrically bond the case to the cross arm hanger.

7.0 CAPITALIZATION OF CAPACITOR LOSS

7.1 The manufacturers shall furnish guaranteed losses of the offered capacitors measured at 20 °C ambient temperature and at rated voltage and frequency. For purpose of bid evaluation, the capitalized cost @ US$ 1200 per KW of capacitor losses (including losses in discharge resistor) shall be added to the quoted bid price.

7.2 The average value of losses measured during acceptance test under clause 9.3 shall be used for verification of values declared by the manufacturer/supplier in Schedule of Technical Data to be submitted as per clause 13. In case the measured average losses exceed the guaranteed losses, a penalty at twice the rate of capitalized cost of losses indicated above shall be payable by the manufacturer/supplier for the losses in excess of guaranteed losses.

8.0 RATING/WARNING PLATE

The following information shall be given on the rating plate of capacitor unit;

i.	Description,	------- SHUNT CAPACITOR.
ii.	Type/designation,	-------
iii.	Rated output, Qn	--------KVAR.
iv.	Rated Voltage, Un	--------kV.
v.	Residual Voltage, Ur	--------V.
vi.	Discharge Resistor, R	-------MΩ.
vii.	Discharge Time,	-------Minutes.
viii.	Rated Frequency,	-------Hz.
viii.	Temperature category,	------ -10 °C to 55°C.
viii	1 min. AC withstand Voltage,	-------kV.
ix.	Lightning Impulse Voltage,	-------kV .
x.	Measured Capacitance,	-------µF.
xi.	NTDC Specification No.	-------P-78:2010
xii.	Serial No. of the capacitor,	--------
ix	Weight of the capacitor,	-------kg.
xiii.	Manufacturers Name,	----------
xiv.	Supplier's Name,	----------
xv.	Purchase Order/Contract No. & date,	----------

8.2 A warning indicating **" NON - PCB"** viewable from the ground shall be printed on the tank preferably on the side containing the rating plate.

9.0 TESTS

9.1 Type Tests

9.1.1 Type tests are carried out in order to ascertain that, as regards design, size, material and manufacture, the capacitor complies with the specified characteristics and operational requirements. The type tests shall be carried out by the manufacturer and a certificate detailing the results of such tests shall be submitted to Purchaser/NTDC. However, the type tests reports of the following tests shall be accepted only if the tests were witnessed by the representative of NTDC/Purchaser. Further, the type tests reports of these tests shall be valid for five years.

i) Over voltage withstand test.
ii) AC voltage test between terminals and container with rain.
iii) Lightning Impulse Voltage test between terminals and container.
iv) Thermal Stability test.
v) Measurement of Capacitance and Tangent of Loss Angle (tan δ) at Elevated Temperature

9.1.2 The following type tests in accordance with IEC 60871-1 shall be made on shunt capacitors having same current & voltage ratings to be supplied. If the facility of any test is not available at manufacturer's premises, the type tests shall be got carried out at a laboratory acceptable to purchaser. It is not essential that all type tests be carried out on the same capacitor unit, they may be carried out on different units having same characteristics. The ambient temperature for test/measurements shall be in the range +5°C to +35°C.

i) Visual examination test.
ii) Dimensional verification.
iii) Voltage test between terminals.
iv) AC voltage test between terminals and container.
v) Measurement of Capacitance.
vi) Measurement of Tangent of Loss Angle (tan δ).
vii) Test of internal discharge device /Discharge resistance test.
viii) Short circuit Discharge test.
ix) Sealing test.
x) Over voltage withstand test.
xi) AC voltage test between terminals and container with rain.
xii) Lightning Impulse Voltage test between terminals and container.
xiii) Thermal Stability test.
xiv) Measurement of Capacitance and Tangent of Loss Angle (tan δ) at Elevated Temperature

9.2 **Routine Tests**

9.2.1 The manufacturer shall carry out following routine tests as per IEC 60871-1 on every capacitor before delivery and a certificate detailing the results of such tests shall be supplied to the Purchaser. The ambient temperature for test/measurements shall be in the range +5°C to +35°C.

i) Measurement of Capacitance.
ii) Measurement of Tangent of Loss Angle (tan δ).
iii) Voltage test between terminals.
iv) AC voltage test between terminals and container.
v) Test of internal discharge device/Discharge resistance test.
vi) Sealing test.

9.3 **Acceptance Tests**

9.3.1 The following acceptance tests shall be performed on 5% of the quantity of ordered shunt capacitors to be selected randomly from the total lot of capacitors in presence of representative (s) of Purchaser/NTDC at the cost and arrangement of the manufacturer/supplier including travel expenses, boarding, lodging and daily allowance for the representative (s) to prove compliance with the requirements as listed in this specification. The ambient temperature for test/measurements shall be in the range +5°C to +35°C.

i) Visual examination test.
ii) Dimensional verification.
iii) Voltage test between terminals.
iv) AC voltage test between terminals and container.
v) Measurement of Capacitance.
vi) Measurement of Tangent of Loss Angle (tan δ).
vii) Test of internal discharge device/Discharge resistance test.
viii) Short circuit Discharge test.
ix) Sealing test.

9.3 SPECIAL TEST

Endurance test

The endurance test is a test on elements (their dielectric design and composition), and on the manufacturing process of these elements when assembled in a capacitor unit. An endurance test covers a range of capacitor designs as per IEC 60871-1. The type test carried out on other rating capacitor having same dielectric design and composition of the capacitor elements may be accepted in lieu of actual test otherwise manufacturer shall have to arrange this test at an independent lab. and submit the test report to the NTDC/Purchaser.

10.0 TEST METHODS

10.1 Visual Examination

Examination	DEFECTS
Material	i. The parts of capacitor e.g. tank, bushing, terminal connectors, lifting lugs are not made of specified material or damaged or missing. ii. Any leakage in the capacitor tank.
Finish	iii. Not painted thoroughly or not finished properly, shows abrasions, wrinkles, runs, blisters, scratches and uncoated spots. iv. Poor adhesion of paint when scrapped with a knife peels off in chips or flakes instead of ribbons. v. The terminal connectors not tin plated. vi. Tank welds not ground off properly.
Marking	viii Name plate markings missing, incomplete, incorrect, illegible not permanent. ix "NON-PCB" marking missing or not viewable from ground as required.
Packing	x. Packing not as specified

10.2 Dimensional Verification

The dimensions shall be measured for verifying of conformance to figure 1/ approved drawings.

10.3 Voltage Test Between Terminals.

The capacitor units shall withstand either AC voltage of 2.0Un or DC voltage of 4.0Un for 10s between terminals. The Capacitance shall be measured before and after the test. The change in capacitance shall not be more than $\pm 2\%$.

10.4 AC Voltage Test Between Terminals And Container.

The capacitor units having all terminals insulated from the container shall withstand AC voltage of 38kV for 60s between terminals (joined together) and the container for type and acceptance tests.

10.5 Measurement of Capacitance

The capacitance of the capacitor units shall be measured at 0.9Un, 1.0Un and 1.1Un after voltage test between terminals. The capacitance of the capacitor unit shall not differ from the rated capacitance by more than – 5% to + 10%.

10.6 Measurement of Tangent of Loss Angle (tan δ)

The capacitor loss (tan δ) of the capacitor unit shall be measured at 0.9Un, 1.0Un and 1.1Un after voltage test between terminals. The measured value shall not be more than the value measured at the end of thermal stability test.

10.7 Test of Internal Discharge Device/Discharge Resistance Test

The capacitor unit shall be applied a voltage of $\sqrt{2}$Un. The resistor of discharge device of a capacitor unit shall be capable of draining the residual charge to 50 volts or less within 5 minutes after the capacitor unit is disconnected from the supply voltage. The Capacitance shall be measured before and after the test. The change in capacitance shall not be more than $\pm 2\%$. The resistance of the internal discharge device shall be calculated from the following formula:-

$$R \le \frac{t}{C \ln (U_n\sqrt{2}/U_r)}$$

Where,

t is the time for discharge from Un$\sqrt{2}$ to Ur in seconds,
R is the discharge resistance in Mega ohm,
C is the capacitance in μF,
Un is the rated voltage of capacitor unit in volts,
Ur is the permissible residual voltage in volts.

10.8 Sealing Test.

The capacitor unit shall be placed in an oven for at-least 2 h at a temperature of 75 °C. No leakage shall occur in the capacitor tank.

10.9 Short Circuit Discharge Test.

The Capacitor unit shall be charged by mean of DC voltage at 2.5Un and then discharged through a gap situated as close as possible to the capacitor. The process was repeated five times within 10 minutes i.e, discharge after every two minutes. Within 5 minutes after the test, the capacitor unit shall be subjected to voltage test between terminals. The Capacitance shall be measured before the discharge test and after the voltage test. The change in capacitance shall not be more than $\pm$2%.

10.10 AC Voltage Test Between Bushing Terminals And Container with rain.

A capacitor unit having all terminals insulated from the container shall withstand AC voltage of 38kV for 60s between terminals (joined together) and container with artificial rain.

10.11 Lightning Impulse Voltage Withstand tests

Fifteen impulses of positive followed by fifteen impulses of negative polarity having a wave of 1.2/50μs to 5/50μs having a crest value of 95kV shall be applied between bushings joined together and the container of the capacitor. The capacitor is considered to have passed the test if:

- no puncture has occurred:
- not more than two external flashovers occurred at each polarity:
- the wave shape has revealed no irregularities or no significant deviation from recordings at reduced test voltage

Alternatively the capacitor unit may be subjected to three impulses with no flashover permitted.

10.12 Over Voltage Withstand Test.

Apply the over voltages to terminals of a capacitor unit for specified durations as mentioned at clause 5.2.1. The Capacitance shall be measured before and after the over voltage test. The change in capacitance shall not be more than $\pm$2%.

10.13 Thermal Stability test.

Place the three capacitor units into the constant temperature oven with static air. The separation between two capacitor units shall be 100mm. Keep the air temperature in the oven at 55 °C. Put the thermoelectric couple among elements which is 2/3 to the bottom of the large side of case. Apply AC voltage calculated from the measured capacitance of 1.44 times its rated output for at-least 48h. During the last 6 hours, measure the container temperature near the top for 4 times. The temperature rise in the last 6 hours shall not increase by more than 1K. The capacitance and tangent of loss angle shall be measured before and after test at ambient temperature. The change in capacitance shall be less than ±2%.

10.14 **Measurement of Capacitance and Tangent of Loss Angle at Elevated Temperature**

After finishing thermal stability test, measure Capacitance and Tangent of Loss Angle (tan δ) at elevated high temperature. The measuring voltage shall be that of the thermal stability test. The measured values shall not be more than the values declared by the manufacturer.

10.15 **Endurance Test.**

The endurance test is a time consuming test. The procedure and requirements are indicated in IEC 60871-2.

10 **PACKING**

Each capacitor shall be sealed in plastic or other suitable moisture proof material and then 15 to 20 units packed in wooden boxes lined with moisture proof material. The packing shall be suitable for outdoor storage at sites having hot, wet, humid and dusty conditions and shall be capable of withstanding the rigors of rail, road and ocean shipment. Special precaution may be essential for protection of capacitors during transport to prevent moisture absorption due, for instance, to rain, snow or condensation. In every package of shipment, two copies of installation and maintenance and operation instruction book in English language enclosed in water proof material shall be provided.

11 **MARKING**

12.1 The following information shall be labeled on each wooden box;

i. Manufacturers name and trade mark.
ii. Capacitor Rating in KVAR.
iii. Name and address of Consignee.
iv. Purchase Order/Contract No. & date.
v. Weight of the capacitor in kg.
vi. No. of capacitors in Package/wooden box.
vii. Gross weight of the package.
viii. Instructions for lifting and handling of wooden box.

13.0 DRAWINGS AND DESCRIPTIVE DATA

13.1 Data and drawing to be submitted with the bid

13.1.1 Supply record of offered type, KVAR capacity & voltage rating of the capacitor for last five years on the following format:

Sr. No.	Contract/Purchase Order No. & date	Capacitor Type	Quantity	Voltage rating	Delivery period	Client Address/ Phone/ Fax No./ E-mail, etc.

13.1.2 The schedule of technical data duly filled-in attached hereto along with Type test report of the offered type, voltage rating of the capacitor and Manufacturer's catalogues/drawings as required in the schedule of technical data.

13.1.3 Non submission of completely filled-in schedule of technical data and supply record on the above format or submission of incomplete information/data as mentioned above with the bid may render the bid non-responsive.

13.2 Data and drawings to be submitted for approval

The following drawings/descriptive data shall be submitted for approval of Design Department NTDC before manufacturing the equipment/prior to mass production.

a. The schedule of technical data duly filled-in along with type test report of the offered type, voltage rating of the capacitor unit and Manufacturer's catalogues/drawings as required in the schedule of technical data.

b. Name/warning plate data of the capacitor.

c. Detailed drawings of the bushings and its mounting arrangements.

d. Details of lifting lugs, hanging arrangements and terminal connectors.

e. Curve or table showing the capacitance as well as losses (tan δ) under steady state condition at rated output as a function of ambient temperature.

f. Overall assembly drawing showing front, side and plan view of capacitor, details of interconnection of series & parallel packs. Cross section shall be indicated to clearly show main constructional features. All leading dimension including thickness of tank walls, material used in construction, method of connecting electrodes, thickness and material of insulations shall also be submitted.

14.0 ENCLOSURES

Following drawings and data sheets are attached herewith:

i. Schedule of technical data for shunt capacitor
ii. Capacitor Drawing No. PDW/DF-386 (revised on 24-11-2010)

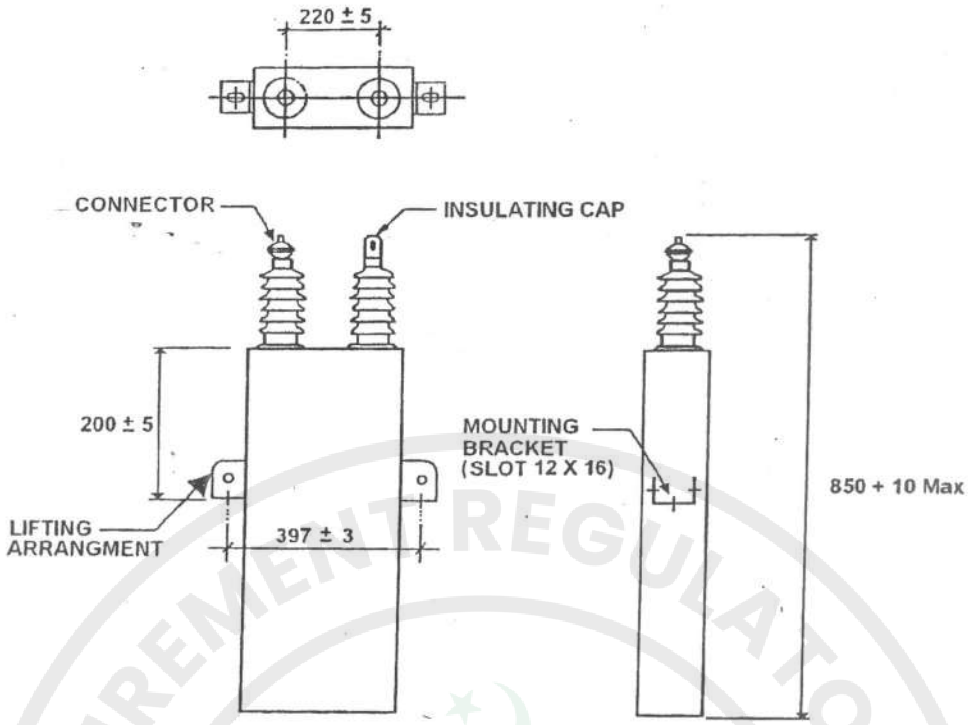
SCHEDULE OF TECHNICAL DATA
SINGLE PHASE SHUNT CAPACITOR, 12/√3kV, 100 & 200KVAR

Sr. No.	DESCRIPTION	Unit	Guaranteed Data
	GENERAL		
1.	Manufacturers' name and address. (Attach manufacturer's Catalogue)		
2.	Manufacturers Type/designation.		
3.	Year of manufacture.		
4.	Rated Voltage, Un.	kV	
5.	Rated Frequency, fn.	Hz	
6.	Rated Output, Qn.	KVAR	
7.	Rated Current, In	A	
8.	Rated Capacitance, Cn.	μF	
9.	Tolerance in KVAR Output.	%	
10.	AC voltage withstand for 60s between bushing terminals and container with rain.	kV	
11.	AC Voltage withstand for 10s between bushing terminals.	kV	
12.	AC Voltage test for 60s between bushing terminals and containers, dry.	kV	
13.	Lightning Impulse Voltage Withstand, 1.2/50μs to 5/50μs.	kV, peak	
14.	Max. continuous working voltage..	kV	
15.	Max. permissible over voltage for 10s.	kV	
16.	Max. permissible over voltage for 1minute.	kV	
17.	Max. permissible over voltage for 5minutes.	kV	
18.	Max. permissible over voltage for 30minutes.	kV	
19.	Max. permissible current at rated voltage and frequency.	Amp	

20.	Standard Temperature category.		^{o}C	
21.	Internal discharge resistor drains residual charge to 50 V.		Sec.	
22.	Capacitor losses (inclusive of loss in discharge resistor) at 20 ^{o}C.		W/KVAR	
23.	Energy handling capacity.		Joules	
24.	Whether externally fused.			
25.		**Internal arrangements**		
	i.	KVAR, Voltage rating of individual pack.		
	ii.	No. of series pack.		
	iii.	No. of parallel packs.		
	iv.	Details of inter-connection. (attach diagram)		
26.		Life expectancy.	Years	
27.		Rated altitude above sea level.	Meter	
28.		**Bushing characteristics**		
	i.	Manufacturers' name and address. (Attach manufacturer's Catalogue)		
	ii.	Type designation.		
	iii.	Material of bushing.		
	iv.	Rated voltage.	kV	
	v.	Power frequency withstand voltage.	kV	
	vi	Impulse withstand voltage.	kV	
	vii.	Creepage distance.	mm.	
	viii.	Mechanical characteristics. (attach sheet)		
29.		**Solid Dielectric**		
	i.	Material.		
	ii.	Manufacturer name.		
	iii.	Type designation.		
	iv.	Melting point.	^{o}C.	

30.		**Characteristic of Dielectric fluid**		
	i.	Specific gravity.		
	ii.	Flash point.	°C.	
	iii.	Kinematics viscosity at 40°C.	mm ≤/g	
	iv.	Fire point.	°C.	
	v.	Pour point.	°C.	
	vi	Neutralization value.	Mg KOH/g	
	vii.	Dielectric strength @2.5 mm gap.	KV	
	viii.	Dielectric constant at 80 °C.		
	ix.	Power factor at 80 °C.		
	x.	Specific resistivity Ω-CM at 80 °C.		
31	Effects of dielectric fluid on physical and electric properties of polypropylene film as regards its:			
	i.	Dielectric strength.		
	ii.	Resistivity.		
	iii	Power factor.		
	iv.	Tensile strength,		
	v.	Melting point.		
32.		**Capacitor Tank**		
	i.	Material of tank.		
	ii.	Colour of Paint.		
	iii	Thickness of paint.		
	iv.	Lifting lug arrangements. (attach drawings)		
	v.	Supporting/hanging arrangements		
33.	Tin plated parallel groove clamp accommodates conductor of dia.		mm	
34.	Capacitors of the offered type have been in service for the period.		Years	
35.	Weight of capacitor.		Kg	

****



Note: - All dimensions are in millimeters.

	NATIONAL TRANSMISSION AND DESPATCH COMPANY		DESIGN DEPTT NTDC
	DRAWN	IJAZ MEHMOOD	SHUNT CAPACITOR (NTDC SPECIFICATION: P-78:2010)
Revised On : 24-11-2010	CHECKED	A. LATIF	
(Pervaz Iqbal) Manager Design (S&R) NTDC	ASSTT: DIR:	M. NAEEM	
	DY: DIR:	MASOOD IQBAL	
(Nazar Abbas) Chief Engineer (Design) NTDC	DIRECTOR	R. A. BAIG	DATE: 2-10-82
	CHIEF ENGINEER	M. A. SHEIKH	DWG. NO. PDW/DF-386

PRICE SCHEDULE TENDER NO. PMU-215/26-27

Tender No.	Item No.	Description of Stores	Unit	Qty Req :	FCS/DDP unit rate in PKR without GST	Applicable GST	FCS/DDP unit rate in PKR with GST	Total Amount in PKR
		1	**2**	**3**	**4**	**5**	**6**	**7=3*6**
PMU-215/26-27	1	Capacitor Cell 200 KVAR	No.	405				
	2	Capacitor Rack with Discharge fitting & coupling Bus Bars	Set.	12				
	3	Capacitor Fuse 50K	No.	360				
							***Grand Total**	

(IN WORDS: ____

____

Note: The ***Grand Total Price** must be same as the Bid Quoted Price

Stamp & Sign: ____________________ Date: _________________

Past Experience and Completed Contracts

Contractual Experience

Bidder/Manufacturer shall have successfully completed at least two (02) number of contracts of same nature/type. “Same nature/type” means material/equipment having comparable characteristics/ features same rating or higher rating not lower rating within last 07 years. In this context, complete set of copies of the contract agreements/Purchase Orders along-with copy of GRN/ completion certificate (must be issued by the end user client) for the equipment indicated in the supply record pertaining to the specified and comparable equipment during the bid evaluation.

The bidders/JV, who are not manufacturers themselves, shall furnish a valid and fresh authorization from the concerned manufacturer to submit a bid from supply of their goods to Pakistan against the tender.

Manufacturing Experience

The manufacturer shall demonstrate designing and manufacturing experience of similar or higher rated equipment /material for at least five year and Two-year satisfactory operation performance of offered equipment.

Performance Criteria

The material manufactured/supplied by the manufacturer/ bidder must have satisfactory operational experience. The bidder / manufacturer shall submit at least two (2) operational certificate with the bid from the end user from Pakistan or from outside the country of offered equipment /goods to establish satisfactory operation for a continuous period of at least two years prior to deadline for submission of bids within the period of last 10 years.

Supply Capacity

The manufacturer shall provide the following information with the Bid to establish its capacity/capability to execute the order.

-Manufacturing Capacity

-Orders in hand

Past Experience / Contracts

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

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

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

Applicant's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insert full name]*
IFP No. and title: *[insert IFP number and title]*
Page *[insert page number]* of *[insert total number]* pages

<table>
<tr><td colspan="4">☐ Not debarred due to deviation from commitment of Bid Securing Declaration-☐ Not debarred due to non-performance</td></tr>
<tr><th>Year</th><th>Non-performed portion of contract</th><th>Contract Identification</th><th>Total Contract Amount (current value, currency, exchange rate and PKR equivalent)</th></tr>
<tr><td>[insert year]</td><td>[insert amount and percentage]</td><td>Contract Identification: [indicate complete contract name/ number, and any other identification]
Name of Procuring Agency: [insert full name]
Address of Procuring Agency: [insert street/city/country]
Reason(s) for nonperformance: [indicate main reason(s)]</td><td>[insert amount]</td></tr>
<tr><td colspan="4">Pending Litigation, in accordance with Section III, Qualification Criteria and Requirements</td></tr>
<tr><td colspan="4">☐ Pending litigation in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.3 as indicated below.</td></tr>
</table>

Year of dispute	Amount in dispute (currency)	Contract Identification	Total Contract Amount (currency), ~~US$~~ PKR Equivalent (exchange rate)

[insert year]	*[insert amount]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Procuring Agency" or "Supplier"]* Status of dispute: *[Indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary]*	*[insert amount]*
☐ 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)**
[insert year]	*[insert percentage]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Procuring Agency" or "Supplier"]* Court/ arbitral award decision: *[Indicate if the award decision was against the Applicant or any member of a joint venture.]y]*	*[insert amount]*

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

* Refer ITA 14 for the exchange rate

3. Financial documents

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

(a) reflect the financial situation of the Applicant or in case of JV member, and not an affiliated entity (such as parent company or group member).

(b) be independently audited or certified in accordance with local legislation.

(c) be complete, including all notes to the financial statements.

(d) correspond to accounting periods already completed and audited.

☐ Attached are copies of financial statements[1] 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**
[indicate calendar year]	*[insert amount and indicate currency]*		
		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.