

Standard Bidding Document

NCB-285 Procurement of 11 KV Capacitor Control Panel (Goods)

National

Single Stage-One Envelope



September 16, 2026

*IESCO-PMU (Islamabad Electric Supply Company (IESCO)), Director
Head Office, Street # 40, Sector G-7/4., Islamabad Capital Territory
Phone: +92-319-599-2205, Email: iescopmu@iesco.com.pk*

Table of Contents

REQUEST FOR BIDS	1
Instructions to Bidders	3
Bid Data Sheet	23
Bids Data Sheet (BDS)	24
Eligibility Criteria	28
Evaluation Criteria	30
Items/Lots	32
Related Services of Goods:	33
Items/Lot Specification	34
Price Schedule	35
General Conditions of Contract	37
Special Conditions of Contract	47
Bid Securing Declaration	54
Contract Form	56
Integrity Pact	59
Performance Guarantee Form	61
Annexure	64
bidder information form	65
bidder jv form	65
correction of defects in warranty period	65
deviation from contractual provision	65

deviation from technical provision	65
Qualification information	65
Letter of bid	66
Manufacturer authorization	66
Manufacturer information form	66
Production capacity of manufacturer	66
production capacity form	66
iesco blklisting policy	67
type test requirement	67
specification	67
manufacturer experience	67
price schedule DDP	67
Price Schedule EXW	68
payment terms	68
Procurement Forms	69
Past Experience and Completed Contracts	1
Historical Contract Non-Performance, and Pending Litigation and Litigation History	1
Current Contracts and Their Progress	1
Financial Capacity and Net Worth Evaluation Form	1
Average Annual Turnover	1
Additional Forms and Documents	73

REQUEST FOR BIDS

PROCUREMENT OF GOODS

1. The **IESCO-PMU (Islamabad Electric Supply Company (IESCO))** has reserved Funds for the procurement planned for FY **2026-27**. The **IESCO-PMU (Islamabad Electric Supply Company (IESCO))** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the "**NCB-285 Procurement of 11 KV Capacitor Control Panel**" with the reference of "**P35195**"
2. The **IESCO-PMU (Islamabad Electric Supply Company (IESCO))** 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 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/35195>** for all the interested bidders registered on **EPADS v2.0**. Bidders are required to get themselves registered on **EPADS v2.0** to participate in Bidding process.
6. The e-bids, prepared in accordance with the instructions in the e-Bidding Documents, must be submitted through **EPADS v2.0** on or before **Friday, October 2, 2026 11:00 AM**. E-bids will be opened using **EPADS v2.0** on the same day at **Friday, October 2, 2026 11:30 AM**. Manual submission of Bids shall not be entertained. Those vendors who have not yet registered on the

new version of **EPADS v2.0**, may register themselves on <https://vendors.epads.gov.pk/>. A tutorial to explain the registration process is available at <https://www.youtube.com/watch?v=MNW6T38v7tc>

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

IESCO-PMU (Islamabad Electric Supply Company (IESCO)), Director
Head Office, Street # 40, Sector G-7/4., Islamabad Capital Territory
+92-319-599-2205
iescopmu@iesco.com.pk





Instructions to Bidders

A. Introduction

1.Scope of Bids

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

2. Source of Funds

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

3. Eligible Bidders

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

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

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

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

any instructions issued by the Authority.

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

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

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

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

3.7 A Bidder may be ineligible if –

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

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

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

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

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

4. Eligible Goods and Related Services

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

5. One Bid per Bidder

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

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

6. Cost of Bidding

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

B. Bidding Documents

7. Contents of Bidding Document

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

Section I -Invitation to Bids

Section II Instructions to Bidders (ITB)

Section III Bid Data Sheet (BDS)

Section IV Evaluation Criteria, Specifications, Schedule of Requirements

Section V Bid Forms

Section VI General Conditions of Contract (GCC)

Section VII Special Conditions of Contract (SCC)

Section VIII Contract Forms

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

8. Clarification of Bidding documents

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

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

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

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

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

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

9. Amendment of Bidding documents

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

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

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

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

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

C. Preparation of Bids

10. Language of Bid

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

11. Documents and samples Constituting the Bid

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

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

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

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

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

13. Documents Establishing Eligibility and Qualification of the Bidder

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

14. Form of Bids

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

15. Bids Prices

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

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

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

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

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

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

16. Bids Currencies

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

17. Bids Validity Period

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

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

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

18. Bid Security or Bid Securing Declaration

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

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

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

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

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

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

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

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

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

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

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

- a. if a Bidder:
- b. withdraws its Bid during the period of Bid Validity as specified by the Procuring Agency, and referred by the Bidder on the Form of Bids except as provided for in **ITB 17.2**; or
- c. does not accept the correction of errors; or
- d. in the case of a successful Bidder, if the Bidder fails:
- e. to sign the contract; or
- f. to furnish Performance Guarantee.

19. Withdrawal, Substitution, and Modification of Bid

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

20. Format and Signing of Bid

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

D. Submission of Bids

21. Submission of Bids through EPADS v2.0

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

22. Deadline for Submission of Bids

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

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

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

E. Opening and Evaluation of Bids

23. Opening of Bids

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

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

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

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

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

24. Clarification of Bids

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

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

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

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

5. terms and conditions of Bidding documents.

6. change in the ranking of the Bidder

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

25. Preliminary Examination of Bids

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

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

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

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

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

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

26. Examination of Terms and Conditions; Technical Evaluation

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

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

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

27. Correction of Errors

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

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

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

28. Conversion to Single Currency

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

29. Evaluation of Bids

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

1. Least Cost Based Selection (LCBS)

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

2. Quality and Cost Based Selection (QCBS)

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

3. Quality Based Selection (QBS)

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

highest bidder and so on.

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

30. Domestic Preference

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

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

31. Determination of Successful Bid

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

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

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

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

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

32. Abnormally Low Financial Bids

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

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

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

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

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

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

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

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

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

perform satisfactorily.

F. Award of Contract

33. Criteria of Award

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

34. Negotiations

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

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

35. Procuring Agency Right to reject all bids

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

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

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

37. Notification of Award

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

of the Public Procurement Rules, 2004.

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

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

38. Signing of Contract

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

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

39. Corrupt & Fraudulent Practices

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

F. Grievance Redressal & Complaint Review Mechanism

40. Constitution of Grievance Redressal

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

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

G. Mechanism of Blacklisting

41. Mechanism of Blacklisting

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

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





Bid Data Sheet

Bids Data Sheet (BDS)

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

BDS Clause Number

ITB Number

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

A. Introduction

BDS Clause Number 1

ITB Number 1.1

Name of Procuring Agency: **IESCO-PMU (Islamabad Electric Supply Company (IESCO))**

The subject of procurement is: **NCB-285 Procurement of 11 KV Capacitor Control Panel**

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: **P35195**

BDS Clause Number 3

ITB Clause Number 3.1

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

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

see section of eligibility criteria.

B. Bidding Documents

BDS Clause Number 4

ITB Number 8.1

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date:
Monday, September 28, 2026
Pre-Bid Meeting: Wednesday, September 23, 2026 11:00 AM
Venue: office of chief Engineer Development Near 132kV Rawal Grid Station,
Club Road, Kashmir Chowk Islamabad

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. i. Joint venture Agreement if any on nonjudicial stamp paper for particular tender ii. No Deviation certificates from Commercial terms and technical specification iii. Firms Engineers and professionals Information iv. Income tax returns for last three years v. Audited Financial Reports of last three years vi. Confirm and valid Bank Credit line (latest) (if any) required to establish cash flow or financial resources.

BDS Clause Number 6

ITB Number 11.1

Items/Lots and there related documents:

See section items and Lots

BDS Clause Number 7

ITB Number 12.1

Items / Lots Specifications:

see section of items specifications.

BDS Clause Number 8

ITB Number 15.6

The price shall be **Fixed**.

BDS Clause Number 9

ITB Number 16.1

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

BDS Clause Number 10

ITB Number 17.1

The Bids/Bid Validity period shall be: **90 Days**

BDS Clause Number 11

ITB Number 18.1

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

The Bid Security shall be in the form of:

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;

Head Office, Street # 40, Sector G-7/4., Islamabad Capital Territory
before bid submission deadline.

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

The deadline for Bids submission is: **Friday, October 2, 2026 11:00 AM**

E. Opening and Evaluation of Bids

BDS Clause Number 13

ITB Number 23.1

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

Day : **Friday**

Date: **Friday, October 2, 2026**

Time : **11:30 AM**

BDS Clause Number 14

ITB Number 31.1

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

F. Review of Procurement Decisions

BDS Clause Number 15

ITB Number 41.1

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

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

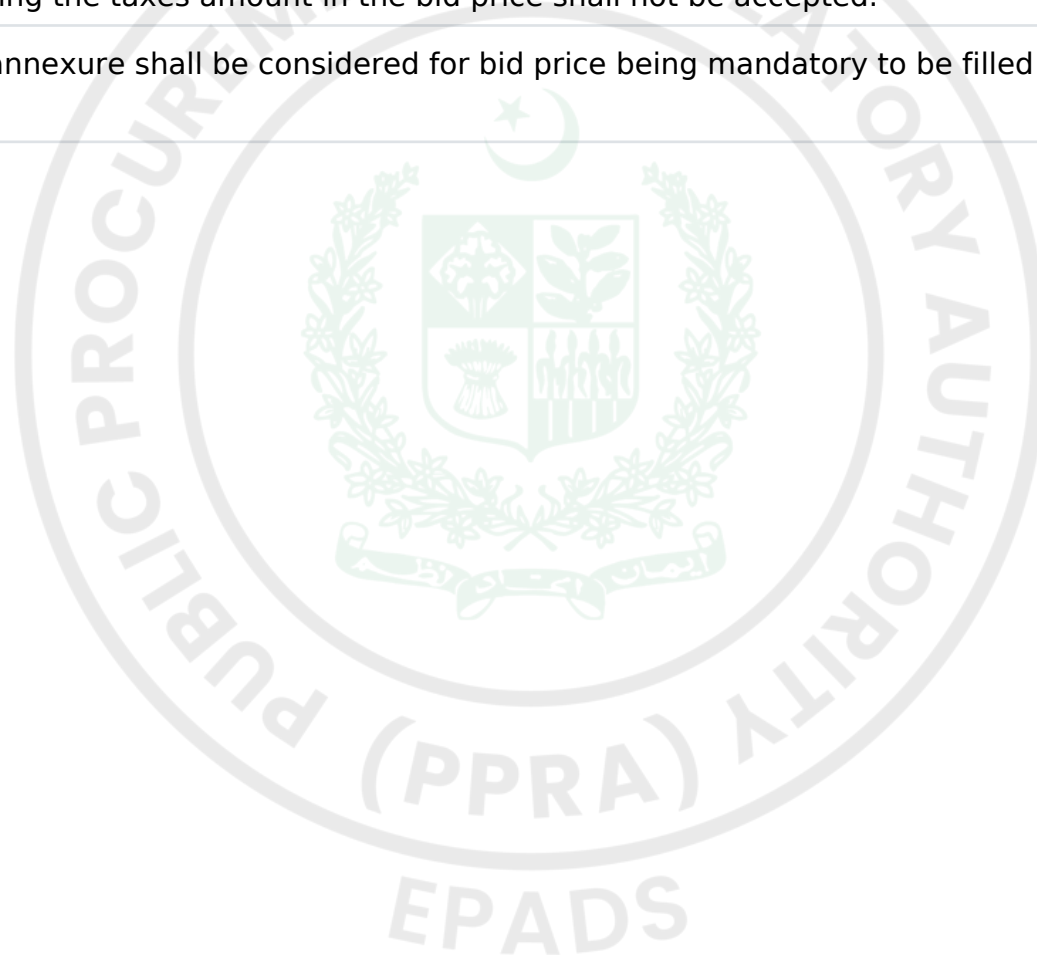


Eligibility Criteria

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

Eligibility Criteria	Document
The amount of performance security (or guarantee), as a percentage of the Contract Price, shall be Ten (10%) percent of the Contract Price in favor of chief engineer (Development) IESCO from Schedule Bank of Pakistan having rating A+ in shape of Bank Guarantee. Contractor will provide performance Guarantee at time of acceptance of Notification of Award	Yes
Bid Declaration Form not applicable	No

Bid security must be submitted in an acceptable form in the amount fixed in PKR valid for 28 days beyond bid validity period in favor of Chief Engineer (Development), IESCO, Islamabad.	Yes
The bidder shall include all applicable taxes, duties, levies and GST etc. as per PPRA EPADS v2.0 in the bid price. Any applicable tax or duty not included in the quoted price shall be deducted from the bidder's payments as per applicable Government rules and SOPs. No additional payment shall be made on this account. Moreover, any excuse of bidder for not adding the taxes amount in the bid price shall not be accepted.	Yes
Price schedule attached as annexure shall be considered for bid price being mandatory to be filled for responsiveness	Yes



Evaluation Criteria

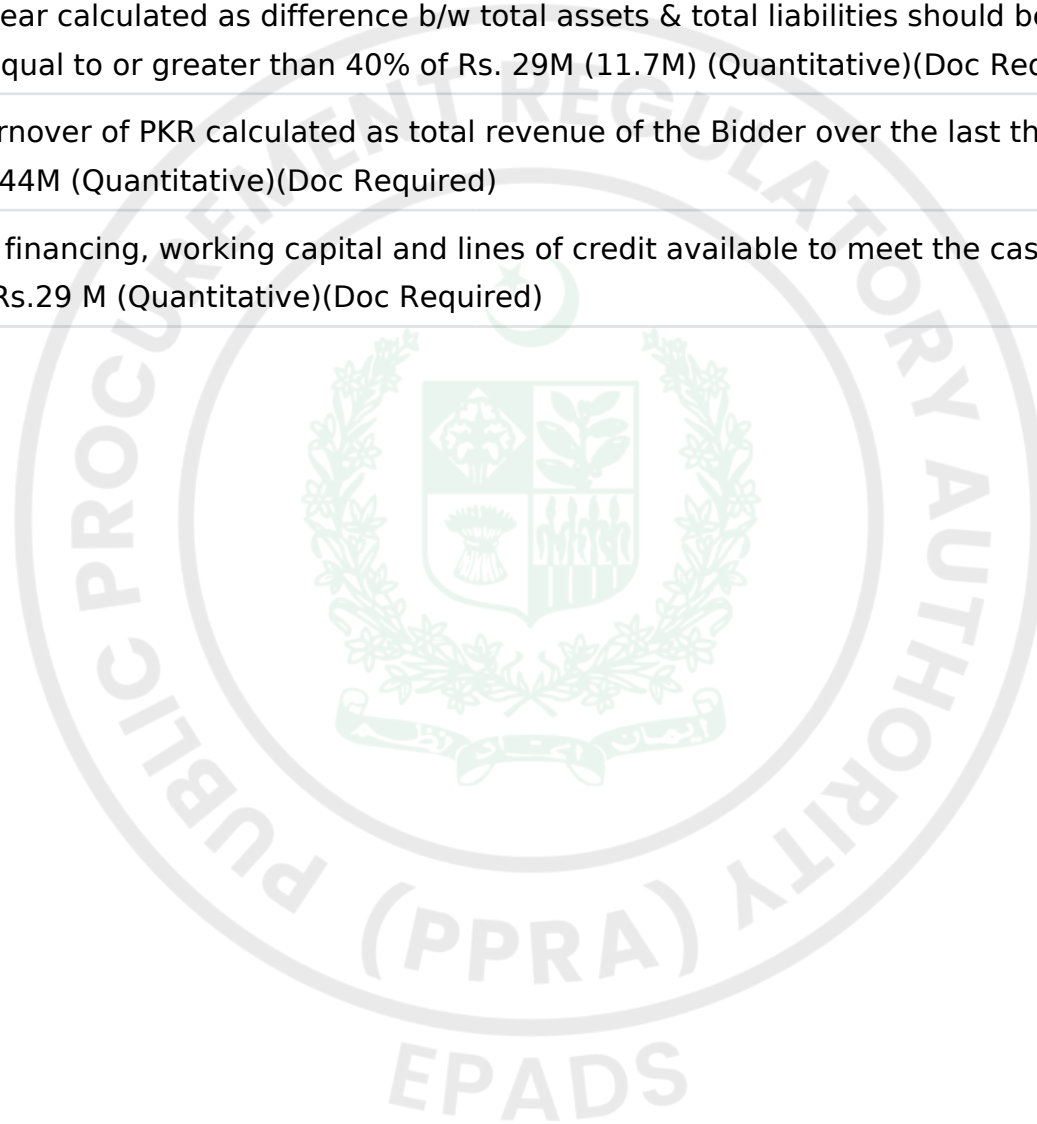
Eligible bidder(s) with substantially responsive bid(s) offering **Least Cost Based Selection (LCBS)** shall be consider for the award of contract(s).

Least Cost Based Selection (LCBS)

Weightage

Technical Evaluation %	
100	
Technical Marks	100
Passing Marks	100
Technical Evaluation Criteria	
Bidder or its manufacturer or Joint Venture (JV) must have successfully completed at least two (02) contracts of similar complexity involving same or higher-rated material/equipment during the last 10 years. The aggregate value of both contracts shall be equal to or greater than Rs. 29M but none of the contract value should be less than 30% of aggregate value.(Rs. 8.8M) (Quantitative)(Doc Required)	30
Manufacturer shall demonstrate at least five years experience in designing and manufacturing of similar nature/complex involving same or higher rated equipment/material. Two (02) years satisfactory operation performance of same or high rated equipment. (Quantitative)(Doc Required)	30

Manufacturer will indicate its manufacturing / production capacity which shall be double the total sum of orders already in hand, expected orders in pipe line and this order (if placed by the bidder) (Quantitative)(Doc Required)	10
Bidder's Net Worth for last year calculated as difference b/w total assets & total liabilities should be positive. however bidder's net worth shall be equal to or greater than 40% of Rs. 29M (11.7M) (Quantitative)(Doc Required)	10
Minimum average annual turnover of PKR calculated as total revenue of the Bidder over the last three Years shall be equal to or greater than Rs. 44M (Quantitative)(Doc Required)	10
Specify proposed sources of financing, working capital and lines of credit available to meet the cash flow demands shall be equal to or greater than Rs.29 M (Quantitative)(Doc Required)	10



Items/Lots

Items Without Lots :

Item	UNSPSC	Delivery Schedule	Quantity	Bid Security	Manufacturer / Dealer Authorization	Warranty
procurement of 11 KV Capacitor Control Panel	Generator control or protection panels	Address: IESCO Regional Store New Wah Schedule: (120 Days (EXW Basis) for local / 210 Days (DDP Basis) for foreign) After signing of contract Quantity: 11/Qty	11/Qty	1043776 PKR	Manufacturer Authorization form	730 Days

Related Services of Goods:

No



Items/Lot Specification

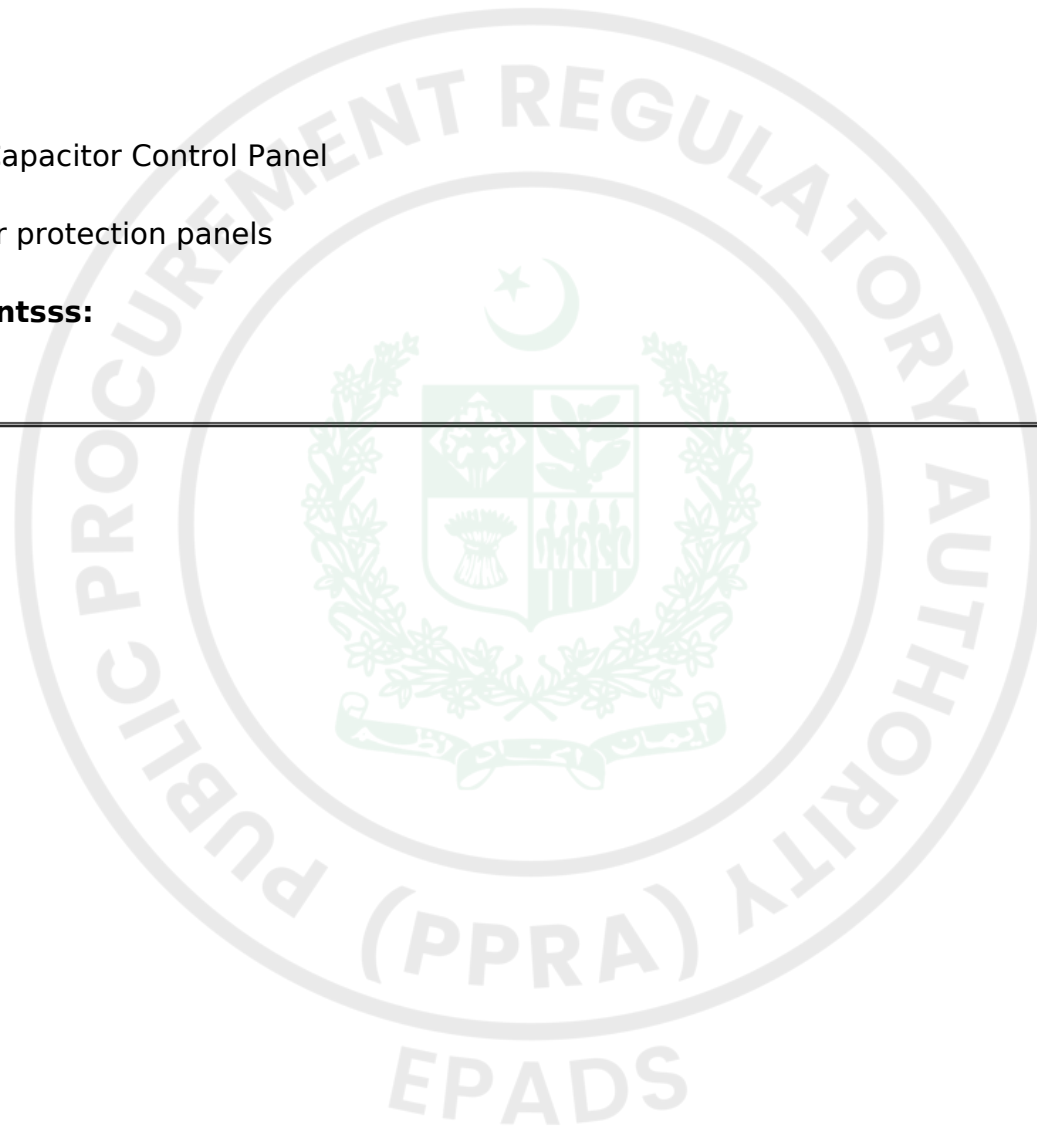
Items Without Lots :

Item: procurement of 11 KV Capacitor Control Panel

UNSPSC: Generator control or protection panels

Specifications / Requirementss:

P-192:1994



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: IESCO-PMU (Islamabad Electric Supply Company (IESCO)), Director Head Office, Street # 40, Sector G-7/4., Islamabad Capital Territory

The Supplier is:

The title of the subject procurement is: NCB-285 Procurement of 11 KV Capacitor Control Panel

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:

IESCO-PMU (Islamabad Electric Supply Company (IESCO)), Director
Head Office, Street # 40, Sector G-7/4., Islamabad Capital Territory
+92-319-599-2205
iescopmu@iesco.com.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:

IESCO-PMU (Islamabad Electric Supply Company (IESCO)), Director
Head Office, Street # 40, Sector G-7/4., Islamabad Capital Territory
+92-319-599-2205
iescopmu@iesco.com.pk

For the Bidder:

Name:

Designation:

Address:

Number of GC Clause 8

Effectiveness of the contract

Number of GC Clause 9

Commencement of Contract:

Number of GC Clause 11.2

Expiration of Contract:

Number of GC Clause 15

Termination

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

Number of GC Clause 17

Conflict of Interest:

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

Number of GC Clause 22

Liquidated Damages

If the Bidder fails to provide services as required under the contract or in case of any data loss/data breach or any incident compromising the data security or other such failures related to any services, the Bidder shall pay to the Procuring Agency as Liquidated Damages at a rate of **0.05%** to **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

Quality and quantity inspection shall be carried out prior to shipment of Goods by the manufacturer(s) at the supplier's own expense and responsibility in terms of the items specified in the specifications. The supplier shall submit the inspection certificate issued by him which should be attached with the certificate(s) of the manufacturer(s) to the Procuring Agency in order to ensure that the goods are manufactured in compliance with the contract.

Factory Acceptance Tests (FAT) shall be carried out at the premises of Manufacturer jointly witnessed with IESCO Engineers. The Contractor shall keep the Engineer informed of the progress of manufacture and notify the Engineer approximately six (6) weeks in advance, in writing as to when the Goods or any part thereof will be ready for inspection and for shipping to wharf at the port of entry/disembarkation.

Following the receipt of such notice, the Engineer shall nominate to arrange pre-shipment inspection of the Goods or any part thereof including the packing at the Contractor's premises and will issue a pre-shipment Inspection Report or waiver to pre-shipment inspection. The Goods or any part thereof shall be shipped or delivered only upon issuance of pre-shipment inspection report. The Goods/material shall be subject to the type, sample and routine tests as described in the Specifications.

The contractor shall provide free of charge all such assistance, instruments, machines, labor and materials as are normally required for carrying out such tests. In case a part or whole of the equipment being supplied at the project by the contractor is from within the country (Pakistan) or outside country, the cost of performing as well as witnessing any test by the Inspectors during pre-shipment local inspection shall be borne by the contractor if such tests are clearly intended by or provided

for in the specifications or as agreed between IESCO and the contractor. Two (2) number authorized Engineers from IESCO will carry out inspection of the material at manufacturer's works. A notice of at least six (6) weeks advance, in writing shall have to be given to the IESCO by the Supplier when the stores against the order are ready for Inspection. Manufacturer will provide facilities for tests as per tender specifications free of cost.

All reasonable facilities as provided in the specifications or followed by Trade & Industry in general shall have to be offered to the Inspecting officers, by the Supplier at their expense for carrying out Testing and Inspection. If Goods are being manufactured on other premises, the Contractor shall obtain permission of the Engineer/IESCO to carry out such inspection, examinations and testing at those premises

For such purpose, the Supplier shall provide free access at all times during manufacture, assembly and testing to the premises in which the work is being carried out. The contractor will cover all the expenses in context of witnessing of the tests by the Inspectors including 1st class traveling (by air or by road depending on the distance from Islamabad Pakistan to the place or places of inspections), boarding & lodging in any A class accommodation, local transportation and daily allowance

As per prevailing rules per inspector to meet other expenses. Abroad Testing witnessing @ 250 USD and 15% incidental charges per inspector. Local Testing Witnessing as per prevailing rules and regulation of TA/DA. The supplier shall submit the inspection certificate issued by him which should be attached with the certificate(s) of the manufacturer(s) to the Procuring Agency in order to ensure that the goods are manufactured in compliance with the contract.

In case the Goods fail to withstand any test, the cost of repeating such test and the cost of witnessing such test by the authorized Engineer/ Inspectors of IESCO shall be borne by the contractor and the equipment released or modified to the satisfaction of the Engineer without any additional cost to the IESCO.

Any inspection and /or witnessing of tests or the waiving of such tests and /or surveillance by the IESCO/Engineer or their two Nos. representatives / Inspectors shall not relieve the Supplier of its obligations and responsibilities under the Contract regardless of any approval or consent given by the IESCO/Engineer or their two Nos. Representatives Inspector. Two copies of all the Inspection and Tests Reports and certificates including that for-quality control shall be supplied to IESCO

The IESCO/Consultant or his two Nos. representatives/Inspector shall countersign the reports and certificates of such tests as have been witnessed. The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection,

at no cost to the Purchaser, upon giving a notice. The Purchaser may require the Supplier to carry out any test and /or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications, codes and standards under the Contract, the costs and expenses incurred in the carrying out of such test and/or inspection shall be borne by the Contractor / Supplier

Further, if such test and /or inspection impede the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection

In case, due to any Pandemic/ urgency of material etc. where witnessing of factory acceptance testing/ foreign Inspection (if involved) may not be possible considering travels restrictions, requirement of material then third-party inspection will be opted through signing of Addendum after approval of Competent

Authority. In such cases contractor will provide 03-year additional extended Warranty in lieu of waiver of physical inspection.

The third-party inspection will be carried out after obtaining approval of Credible Testing laboratory from IESCO conducted by third party inspector witnessed by two No. IESCO Engineers on line through Zoom/ skype. The charges of testing/ witnessing of type tests will be borne by Supplier. The material will be delivered after approval of inspection certificate & test reports of approved inspectors from IESCO.

Delivery & Documents

For Goods supplied from abroad: (Outside purchaser's country on DDP) Upon shipment, the Supplier shall notify the Procuring Agency and the Insurance Company by cable the full details of the shipment, including Contract number, description of Goods, quantity, the vessel, the bill of lading number and date, port of loading, date of shipment, port of discharge, etc

The Supplier shall mail the documents (but not limited to the following papers) to the Procuring Agency, with a copy to the Insurance Company: (i) One original plus four copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount; (ii) original and four copies of the negotiable, clean, on-board bill of lading marked "freight prepaid" and four copies of nonnegotiable bill of lading

One original plus four copies of the packing list identifying contents of each package, (iv.) Insurance Certificate, (v.) Manufacturers or Supplier's warranty certificate, (vi.) inspection certificate, issued by the nominated inspection agency, and the Supplier's factory inspection report; and

Certificate of country of origin issued by the chamber of commerce and industry or equivalent authority in the country of origin in duplicate. The above documents shall be received by the Procuring Agency at least one week before arrival of the Goods at the port or place of arrival and, if not received, the Supplier will be responsible for any consequent expenses

For Goods from within Pakistan: (within purchaser's country on EXW) Upon delivery of the Goods to the transporter, the Supplier shall notify the Procuring Agency and mail the following but not limited documents to the Procuring Agency: (i.) one original plus four copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;

(ii.) delivery note, railway receipt, or truck receipt; (iii.) Manufacturers or Supplier's warranty certificate (iv.) inspection certificate issued by the nominated inspection agency, and the Supplier's factory inspection report; and

(v.) Certificate of country of origin issued by Pakistan Chamber of Commerce and Industry or equivalent authority in the country of origin in duplicate. The above documents shall be received by the Procuring Agency before arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses

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.: **P35195**

To: **IESCO-PMU (Islamabad Electric Supply Company (IESCO)), Director Head Office, Street # 40, Sector G-7/4., Islamabad Capital Territory**

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 **IESCO-PMU (Islamabad Electric Supply Company (IESCO))**, Director Head Office, Street # 40, Sector G-7/4., Islamabad Capital Territory

(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., **NCB-285 Procurement of 11 KV Capacitor Control Panel (P35195)** and has accepted a Bids by the Bidder for the provision of Goods in the sum of [contract price in words and figures] (hereinafter called “the Contract Price”).

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

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

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

1. This form of Contract;
2. the Form of Bids and the Price Schedule submitted by the Bidder;
3. the Schedule of Requirements;
4. the Technical Specifications;
5. the Special Conditions of Contract;
6. the General Conditions of the Contract;
7. the Procuring Agency’s Letter of Acceptance; and
8. [add here: any other documents]

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

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

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

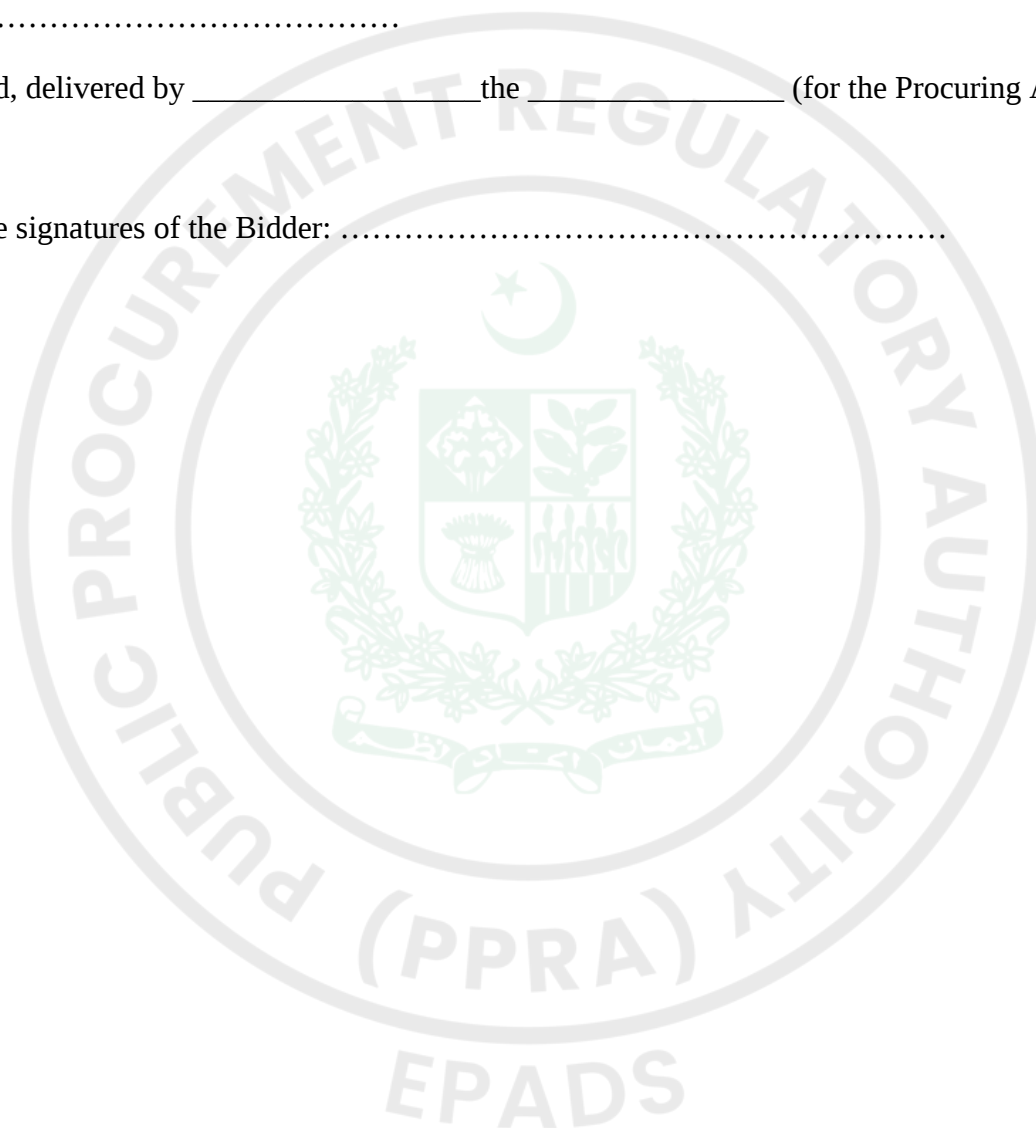
Signed, sealed, delivered by _____ the _____ (for the Procuring Agency)

Witness to the signatures of the Procuring Agency:

.....

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

Witness to the signatures of the Bidder:





Integrity Pact

Integrity Pact

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

Contract

Number: Contract

Value: Contract Title:

Dated:

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

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

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

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

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



Performance Guarantee Form

Performance Guarantee Form

To: **IESCO-PMU (Islamabad Electric Supply Company (IESCO)), Director Head Office, Street # 40, Sector G-7/4., Islamabad Capital Territory**

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

bidder information form

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **bidder information form** (page number: 74)

bidder jv form

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **bidder jv form** (page number: 75)

correction of defects in warranty period

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **correction of defects in warranty period** (page number: 76)

deviation from contractual provision

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **deviation from contractual provision** (page number: 77)

deviation from technical provision

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **deviation from technical provision** (page number: 78)

Qualification information

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Qualification information** (page number: 79)

Letter of bid

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Letter of bid** (page number: 82)

Manufacturer authorization

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Manufacturer authorization** (page number: 84)

Manufacturer information form

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Manufacturer information form** (page number: 85)

Production capacity of manufacturer

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Production capacity of manufacturer** (page number: 86)

production capacity form

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **production capacity form** (page number: 87)

iesco blklisting policy

Information (Read-Only)

See Form Under Additional Forms and Documents: **iesco blklisting policy** (page number: 88)

type test requirement

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **type test requirement** (page number: 117)

specification

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **specification** (page number: 118)

manufacturer experience

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **manufacturer experience** (page number: 157)

price schedule DDP

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **price schedule DDP** (page number: 158)

Price Schedule EXW

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Price Schedule EXW** (page number: 159)

payment terms

Information (Read-Only)

See Form Under Additional Forms and Documents: **payment terms** (page number: 160)





Procurement Forms

Past Experience and Completed Contracts

Bidder or its manufacturer or Joint Venture (JV) must have successfully completed at least two (02) contracts of similar complexity involving same or higher-rated material/equipment during the last Ten (10) years. The aggregate value of both contracts shall be equal to or greater than Rs. 29M but none of the contract value should be less than 30% of aggregate value. (Rs. 8.8M)

To substantiate compliance with this requirement, the Bidder/JV shall submit copies of relevant Purchase Orders / Contract Agreements along with Completion Certificates/GRN/Delivery Challan etc issued by the concerned client.

The manufacturer shall demonstrate at least five (05) years' experience in designing and manufacturing of similar nature/complex involving same or higher rated equipment/material. Two (02) years satisfactory operation performance of same or high rated equipment /material. For the ease of evaluation, related form are enclosed in annexure and the same will be considered during evaluation.

See Form Under Additional Forms and Documents: **Past Experience and Completed Contracts** (page number: 163)

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

History of Non-performing Contracts

Non-performance of a contract did not occur as a result of contractor default since 1st January 2025. a Non-performance, as decided by the Purchaser, shall include all contracts where (a) nonperformance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Nonperformance shall not include contracts where Purchaser's decision was overruled by the dispute resolution mechanism. Nonperformance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

b This requirement also applies to contracts executed by the Bidder as Joint Venture partner.

pending litigation

All pending litigation, arbitration, Grievance Redressal committee (GRC) and Appellate GRC or other material events impacting the net worth and/or liquidity of the bidder, if any, shall be treated as resolved against the Bidder and so shall in total not represent more than 25% (twenty five percent) of the Bidder's last year net worth calculated as the difference between total assets and total liabilities.

See Form Under Additional Forms and Documents: **Historical Contract Non-Performance, and Pending Litigation and Litigation History** (page number: 164)

Current Contracts and Their Progress

Financial Resources shall be determined as per following :

Financial Resources = working capital + credit line from scheduled bank - current commitment as per attached proforma

Financial Capacity and Net Worth Evaluation Form

Financial Capability of Bidder

a. Submission of audited financial statements for the last three years to demonstrate the current soundness of the Bidder's financial position. Bidder's Net Worth for the last year calculated as difference between total assets and total liabilities should be positive. However, bidder's networth shall be equal to or greater than 40% of Rs. 29 M (11.7M)

incase of

1 single entity = 100% comply

2 incase of JV lead partner 60% and member 40%

b. Specify proposed sources of financing, working capital, lines of credit, and other financial means, available to meet the cash flow demands shall be equal to or greater than Rs.29 M.

incase of

1 single entity = 100% comply

2 incase of JV lead partner 60% and member 40%

See Form Under Additional Forms and Documents: **Financial Capacity and Net Worth Evaluation Form** (page number: 167)

Average Annual Turnover

Minimum average annual turnover of PKR calculated as total revenue of the Bidder over the last three Years shall be equal to or greater than Rs.44 M.

1 single entity = 100% comply

2 incase of JV lead partner 60% and member 40%

See Form Under Additional Forms and Documents: **Average Annual Turnover** (page number: 169)





Additional Forms and Documents

Bidder Information Form

Date of Bid Submission: _____

Request for Bid No.: NCB _____

Page _____ of _____ pages

1. Bidder's Name: _____
2. In case of JV, legal name of each member: _____
3. Bidder's actual or intended country of registration: _____
4. Bidder's year of registration: _____
5. Bidder's Address in country of registration: _____
6. Bidder's Authorized Representative Information Name: _____ CNIC No. _____ Address: _____ Telephone/Fax numbers: _____ Email Address: _____
7. Attached are copies of original documents of [please check the box(es) of the attached original documents] ☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above. ☐ In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 3.4. ☐ Establishing that the Bidder is not under the supervision of the Procuring Agency
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

Bidder's JV Members Information Form

Date of Bid Submission: _____

Request for Bid No.: NCB _____

Page____of _____pages

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

Correction of defects in the warranty period

The period for taking remedial action for failure of correction of defects in the warranty period is:
Thirty (30) Days from the date defect notified to the supplier at his cost and expense.



Deviation from Contractual/Commercial Provision

It is presumed that bidder shall not take any deviation. However, if he intends to take deviation to specified contractual/commercial conditions, those must be listed in the space provided below.

Sr #	Section No	Clause No	Deviation	Clarifications

Sign & Stamped by bidders

Deviation from Technical Provision

It is presumed that bidder shall not take any deviation. However, if he intends to take deviation to specified terms, those must be listed in the space provided below:

Sr #	Section No.	Clause No	Deviation	Clarifications

Sign & Stamped by bidders

Form of Qualification Information

1. Individual Bidders or Individual Members of Joint Ventures

1.1 Constitution or legal status of Bidder:

(Attach copy)

Place of registration: _____

Principal place of business: _____

Power of attorney of signatory of Bid: _____

1.2 Total annual volume of Services performed in _____ years, in the internationally traded currency specified in the Bid Data Sheet: _____

1.3 Services performed as prime Supplier on the provision of Services of a similar nature and volume over the last _____ years. The values should be indicated in the same currency used for Item 1.2 above. Also list details of work under way or committed, including expected completion date.

Project name and country	Name of Procuring Agency (PA) and contact person	Type of Services provided and year of completion

1.4 Major items of Supplier's Equipment proposed for carrying out the Services. List all information requested below. Refer also to ITB 13.3(c).

Item of equipment	Description, make, and age (years)	Condition (new, good, poor) and number available	Owned, leased (from whom?), or to be purchased (from whom?)
(a)			
(b)			

1.5 Qualifications and experience of key personnel proposed for administration and execution of the Contract. Attach biographical data. Refer also to ITB 13.4(d).

Position	Name	Years of experience (general)	Years of experience in proposed position
(a)			
(b)			

1.6 Proposed sub-contracts and firms involved. Refer to GCC 24.

Sections of the Services	Value of Sub-contract	Sub-contractor (Name and address)	Experience in providing similar Services
(a)			
(b)			

1.7 Financial reports for the last (*insert period*) years: balance sheets, profit and loss statements, auditors' reports, etc. List below and attach copies.

1.8 Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit, etc. List below and attach copies of support documents mentioning that We certify/confirm that we comply with eligibility requirements as per ITB 3 of the bidding documents.

1.9 Name, address, and telephone, telex, and facsimile numbers of banks that may provide references if contacted by the Procuring Agency.

1.10 Information regarding any litigation, current or within the last (*insert period*) years, in which the Bidder is or has been involved.

Other party(ies)	Cause of dispute	Details of litigation award	Amount involved
(a)			
(b)			

1.11 Information regarding Occupation Health and Safety Policy and Safety

Records of the Bidder.

1.12 Statement of compliance with the requirements of ITB 3.4.

1.13 Proposed Program (service work method and schedule). Descriptions, drawings, and charts, as necessary, to comply with the requirements of the bidding documents.

2. Joint Ventures

2.1 The information listed in 1.11 - 1.12 above shall be provided for each member of the joint venture.

2.2 The information in 1.13 above shall be provided for the joint venture.

2.3 Attach the power of attorney of the signatory (ies) of the Bid authorizing signature of the Bid on behalf of the joint venture.

2.4 Attach the Contract among all members of the joint venture (and which is legally binding on all members), which shows that

- (a) all members shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms;
- (b) one of the members will be nominated as being in-charge, authorized to incur liabilities, and receive instructions for and on behalf of any and all members of the joint venture; and
- (c) the execution of the entire Contract, including payment, shall be done exclusively with the member in charge.

3. Additional Requirements

3.1 Bidders should provide any additional information required in the Bid Data Sheet and to fulfill the requirements of ITB 12.1, if applicable.

We, the undersigned declare that

- (a) The information contained in and attached to this form is true and accurate as of the date of bid submission

Or [delete] statement which does not apply]

- (b) The originally submitted pre-qualification information remains essentially correct as of date of submission

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Bidder: _____

Address: _____

Letter of Bid – Technical Proposal

No. _____

Dated _____

Date of Bid submission: _____

Request for Bid No.: (NCB) _____

Description of Bid: _____

To:

We, the undersigned Bidder, hereby submit our Bid, in two parts, namely:

- (a) the Technical Proposal, and
- (b) the Financial Proposal.

In submitting our Bid we make the following declarations:

- (a) **No reservations:** We have examined and have no reservations to the bidding document, including addenda as well as blacklisting mechanism issued in accordance with Instructions to Bidders (ITB 9);
- (b) **Eligibility:** We meet the eligibility requirements and have no conflict of interest in accordance with ITB 3;
- (c) **Bid/Proposal-Securing Declaration:** We have not been suspended nor declared ineligible by the Procuring Agency based on execution of a Bid Securing Declaration or Proposal Securing Declaration in the Procuring Agency's country in accordance with ITB 4;
- (d) **Conformity:** We offer to supply in conformity with the bidding document and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods: *[insert a brief description of the Goods and Related Services]*-----

-----];
- (e) **Bid Validity Period:** Our Bid shall be valid for the period ----- specified in BDS 17.1 (as amended, if applicable) from the date fixed for the Bid submission deadline specified in BDS 23.1 (as amended, if applicable), and it shall remain binding upon us, and may be accepted at any time before the expiration of that period;
- (f) **Performance Security:** If our Bid is accepted, we commit to obtain a performance security in accordance with the bidding document;
- (g) **One Bid per Bidder:** We are not submitting any other Bid(s) as an individual Bidder, and we are not participating in any other bid(s) as a Joint Venture member or as a subcontractor, and meet the requirements, other than Alternative Bids submitted in accordance with ITB 19;
- (h) **Suspension and Debarment:** We, along with any of our

subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the Procuring Agency. Further, we are not ineligible under Pakistan laws;

- (j) **State-owned enterprise or institution:** (check appropriate box)
i. We are not a state-owned enterprise or institution ☐
ii. We are a state-owned enterprise or institution but meet the requirements of this tender. ☐
- (k) **Binding Contract:** We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- (l) **Not Bound to Accept:** We understand that you are not bound to accept the Most Advantageous Bid or any other Bid that you may receive; and
- (m) **Fraud and Corruption:** We hereby certify that we have taken steps to ensure that no person acting for us, or on our behalf, engages in any type of Fraud and Corruption.
- (n) **Commissions, gratuities and fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract:

Name of Recipient	Address	Reason	Amount

Complete Name of the Bidder: * _____

Name of the person duly authorized as per PoA to sign the Bid on behalf of the Bidder: ** _____

Title of the person signing the Bid: _____

Signature of the person named above: _____

Date signed _____ **day of** _____ **Month** _____ **Year** _____

*: In the case of the Bid submitted by a Joint Venture specify the name of the Joint Venture as Bidder.

**: Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules.

Manufacturer's Authorization

No. _____

Dated _____

Date of Bid Submission:

____/____/2025

Request for Bid No.:

NCB _____

To:

WHEREAS

We _____, who are official
manufacturers of _____,
having factories at _____, do
hereby authorize M/s _____ to
submit a Bid the purpose of which is to provide the following Goods, manufactured
by us _____
and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance clause-18 of General
Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: _____

Name: _____

Title: _____

Date signed _____ day of _____ Month, _____ Year

Manufacturer's Information Form

Date of Bid Submission: _____

Request for Bid No.: NCB _____

Page ____ of ____ pages

1. Manufacturer's Name: _____
3. Manufacturer Country of Registration: _____
4. Manufacturer year of Registration: _____
5. Manufacturer's legal address of Head Office and Production sites in Country of Registration: _____
6. Manufacturer's Authorized Representative Information Name: _____ Address: _____ Telephone/Mob/Fax numbers: _____ Email Address: _____
1 Attached are copies of original documents of [please check the box(es) of the attached original documents] from concern chamber of commerce manufacturing country or Pakistani Embassy in manufacturing country ☐ Articles of Incorporation (or equivalent documents of Constitution or Association), and/or registration documents of the legal entity named above, in accordance with ITB 4.4. 2. Included are the organizational chart, a list of Board of Directors, and the Beneficial Ownership.

Production Capacity of Manufacturer

Sr #		Factory Capacity in unit as mentioned in Price schedule
A	Total Factory Production Capacity (No. or Sets or other unit)/Year	
B	Order in Hand (No. or Sets or other unit)	
C	Expected order during execution of this contract if awarded (No. or Sets or other unit)	
D	Quantity of this order	
E	Remaining Capacity of Factory (No. or Sets or other unit) E= (A-B-C-D)	
$A \geq 2 \times E$		

Signed & Stamped by Manufacture

Criteria	Compliance Requirements			Documents	
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
In order to ensure the smooth and timely execution of order, the manufacturer will indicate its manufacturing / production capacity which shall be double the total sum of orders already in hand, expected orders in pipe line and this order (if placed on the bidder). The manufacturer shall provide the information with the bid to establish its capacity / capability to execute the order for which necessary documentary evidence may be attached related for the above mentioned requirements. In this context the manufacturer is required to fill in the relevant forms given in Forms of this tender document and submit the same with the bid. The purchaser may visit the site of supplier at any time during evaluation at the cost of supplier.	Must meet requirement	Not applicable	Not applicable	Manufacturer must meet	Forms

**A Bidder or Manufacturer shall provide evidence of production output.*

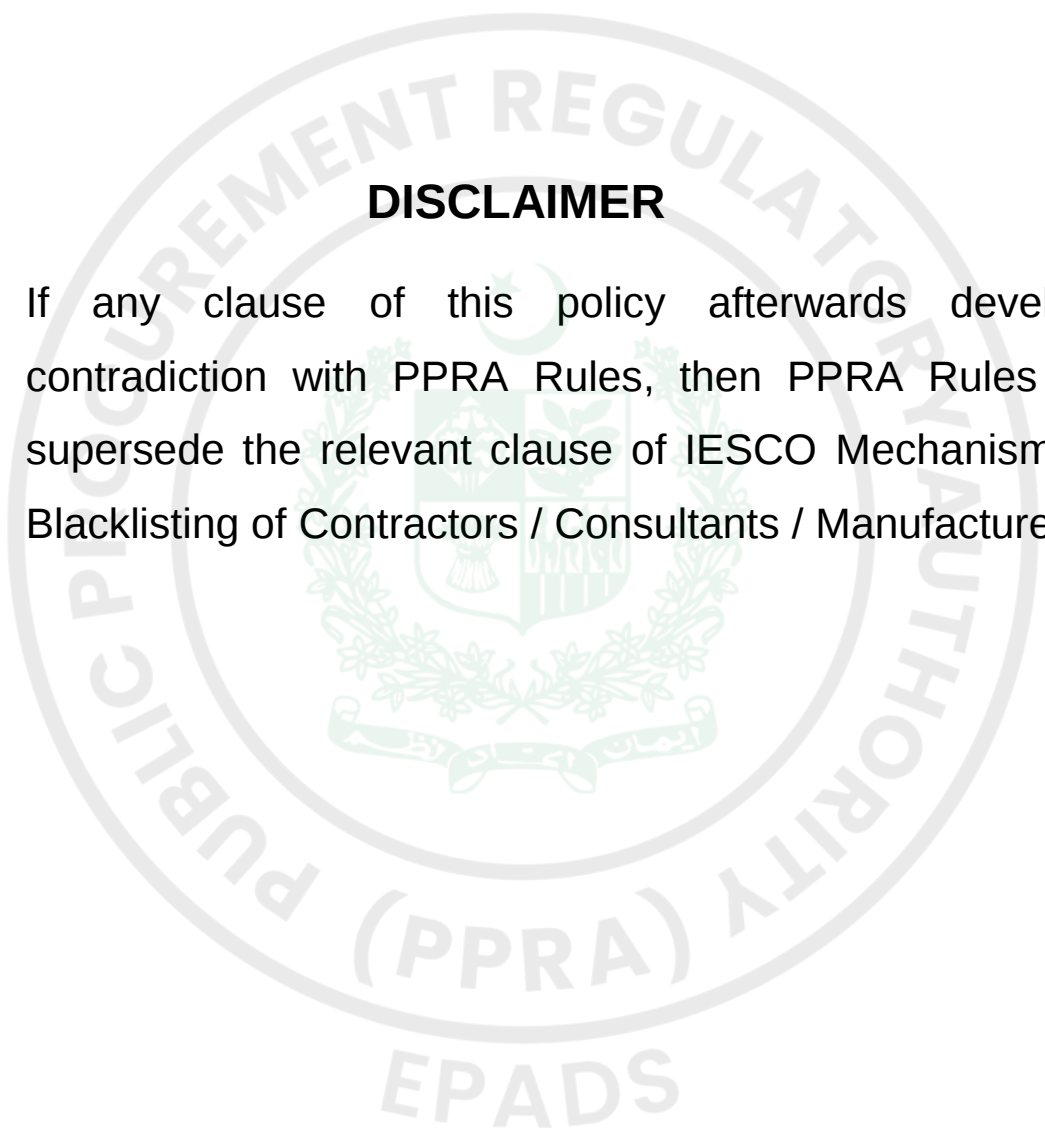
MECHANISM FOR BLACKLISTING OF CONTRACTORS / CONSULTANTS / MANUFACTURERS



**Approved by IESCO Board of Directors (BoD) in its
178th Meeting held on 23rd August 2019.**

ISLAMABAD ELECTRIC SUPPLY COMPANY (IESCO)

28th October, 2019



DISCLAIMER

If any clause of this policy afterwards develops contradiction with PPRA Rules, then PPRA Rules will supersede the relevant clause of IESCO Mechanism for Blacklisting of Contractors / Consultants / Manufacturers.

TABLE OF CONTENTS

PREFACE	1
DEFINITIONS	2
Chapter No.1	
1.1 Introduction	4
1.2 Extent of Application	4
1.3 Basic Principles of Blacklisting Mechanism	5
Chapter No.2	
Grounds for Blacklisting	
2.1 General Grounds	6
2.2 Grounds at Competitive Bidding Stage	6
2.3 Grounds at Contract Implementation Stage	8
2.4 Blacklisted Person / Entity etc.	10
Chapter No.3	
Formulation of “IESCO Standing Committee for Blacklisting”	
3.1 Defining Structure of Committee	11
3.2 Provision of Additional Member	11
3.3 Timeline for Finalization of Recommendations	11
Chapter No.4	
Procedure for Suspension and Blacklisting.	12
4.1 The Competitive Bidding Stage	12
4.1.1 Initiation of Action	12
4.1.2 Notification	12
4.1.3 Hearings	13
4.1.4 Decision	13
4.1.5 Notice of Decision	13
4.2 Contract Implementation Stage	14
4.2.1 Initiation of Action	14
4.2.2 Notification	14
4.2.3 Hearings	14
4.2.4 Decision	15
4.2.5 Notice of Decision	15
4.3 Blacklisted Person / Entity etc.	15
Chapter No.5	
Review against Decision of the Procuring Agency	16
5.1 Filing an appeal for Review against decision	16
5.2 Constituting Decision Review Committee	16
5.3 Timeline for deciding the Appeal	16
5.4 Finalization of the Decision	16
Chapter No.6	
Appeal	
6.1 Filing an Appeal with the Authority	17
Chapter No.7	
Period of Debarment	
7.1 Period of Debarment for Blacklisted Firms	18

	Chapter No.8	
	Appraisal to Procurement Committee/Board of Directors	
8.1	Appraisal of Blacklisted Firms to Procurement Committee / Board of Directors (BoD)	19
	Chapter No.9	
	Communication of Notification to Authority	
9.1	Methodology for Communication of Notification of the PPRA / NTDC / WAPDA /DISCOs Delisting	20
9.2	Effectiveness	21
9.3	Amendments	21
9.4	Delisting	21
	Appendix-1 - Process to deal with Complaints	22
	Appendix-2 - Guidelines for Evaluation of Performances of Contractors	24
	Form for Hearing	25



PREFACE

This mechanism of blacklisting has been drafted in the light of Rule-19 “Blacklisting of suppliers and contractors” of the Public Procurement Rules, 2004 “PPRA Rules”. This Mechanism has been developed to mitigate the possibilities of corrupt practices and ensure the transparent and corruption free public procurement in the organization. The blacklisting policies of various procurement agencies have also been consulted. The policy was placed on IESCO website for more than 03 months & all the stake holders were invited to furnish their comments so that no one may have any objection after its implementation. This mechanism consists of 09 chapters containing Grounds for Blacklisting, Procedure for Suspension and Blacklisting, Formulation of “IESCO Standing Committee for Blacklisting”, Review against Decision of the Procuring Agency, Period of Debarment, Process to deal with Complaints & Guidelines for Evaluation of Performances of Contractors. The procedure has been developed for both of the procurement stages including competitive bidding stage and contract implementation stage. A disclaimer Clause has also been added so that Authority’s instructions could prevail. This document shall be considered an integral part of IESCO Bidding Documents / Tender Documents/ RFPs as well as contract agreements / purchase orders etc. The bidders shall have to submit an undertaking along with their bid that they have read all the contents of this blacklisting mechanism and they accept all the provisions of this document.

DEFINITIONS

In addition to definitions mentioned in bidding document, following definitions are also applicable:

- (i) **Authority:** The Public Procurement Regulatory Authority.
- (ii) **Appeal:** Right of firm/individual to bring its / his grievance against the issuance of Blacklisting Order at the appropriate legal forum.
- (iii) **Appellate Authority:** The department, office or government unit exercising general and/or administrative supervision/control over the blacklisting agency. Department level agencies shall exercise appellate authority over offices, agencies, under their jurisdiction. *Provided, further,* that blacklisting decisions of government agencies that are not subject to general and/or administrative supervision/control of any department, office or government unit shall be final and executor.
- (iv) **Award:** A written notice from the procuring entity accepting a bid or proposal.
- (v) **Blacklisting:** An administrative penalty disqualifying a person or an entity from participating in any government procurement for a given period.
- (vi) **Blacklisting Mechanism:** A mechanism adopted by IESCO as a procuring agency/entity for Blacklisting supplier(s), manufacturer(s), distributor(s), contractor(s) or Experts/consultants/consulting firm(s) etc.
- (vii) **Blacklisted Person/Entity.** A person/entity that was disqualified by an agency and/or is included in the PPRA/ADB/World Bank/Donor Agencies' (working with Government of Pakistan) Consolidated Blacklisting Report/sanctioning list.
- (viii) **Contractor** includes-suppliers, contractors and consultants
- (ix) **Consolidated Blacklisting Report:** The report prepared by the NTDC/WAPDA/DISCOs/PPRA/ADB/World Bank/Donor Agency working with Government of Pakistan containing the list of supplier(s), manufacturer(s), distributor(s), contractor(s) or Experts/ consultants/ consulting firm(s) blacklisted by procuring entities/agencies.
- (x) **Debarment:** state of being legally excluded from participating in all types of procurement proceedings of the procuring department for a given period.
- (xi) **Delist.** Removal of a person/entity from the Consolidated Blacklisting Report.
- (xii) **Procuring Agency:** Any department, attached department or any office of the Islamabad Electric Supply Company;

- (xiii) **Suspension.** Administrative action taken for infractions committed by a contractor during the competitive bidding stage, whereby such contractor is prohibited from further participation in the bidding process of an agency.
- (xiv) **Termination of Contract-** Extinction of contract by reason or resolution or rescission under applicable rules/regulations/laws arising from the default of the firms/individuals.



Chapter No.1

1.1 Introduction

Blacklisting is one of the effective tools used in the struggle against the corruption in connection with public procurement. The main objectives of any procurement process are transparency, economy, fairness and efficiency so that public money is spent on welfare of the public. Hence, blacklisting is an instrument, which may lead to the decrease of the potential corruption risks and also inculcate protection of public means and increase of effectiveness of allocation of the limited resources.

Rule-19 “Blacklisting of suppliers and contractors” of the Public Procurement Rules, 2004 (hereinafter “**PPRA Rules**”) stipulates that;

*“The procuring agencies shall specify a mechanism and manner to permanently or temporarily bar, from participating in their respective procurement proceedings, suppliers and contractors who either consistently fail to provide satisfactory performances or are found to be indulging in corrupt or fraudulent practices. Such barring action shall be duly publicized and communicated to the Authority:
Provided that any supplier or contractor who is to be blacklisted shall be accorded adequate opportunity of being heard.”*

In the light of the above said Clause, Blacklisting Mechanism (hereinafter **the Mechanism**) has been specified for all procurements made by IESCO. This policy shall govern the blacklisting of manufacturers, suppliers, distributors, contractors, consultants and consulting firms (“contractors” for brevity) involved in government procurement for offenses or violations committed during competitive bidding and contract implementation

Any capitalized terms and abbreviations used in this mechanism which are not defined herein shall have the meanings given to them in Public Procurement Regulatory Authority Ordinance, 2002 (hereinafter “**PPRA Ordinance**”) and PPRA Rules amended upto date.

1.2 Extent of Application

- i. The Mechanism shall be applicable and remain in force, along with any amendments thereto, within IESCO until any clear instructions or guidelines are imparted by the Government through PPRA, PEC, or any other competent forum.
- ii. The Mechanism shall also be applicable on the pre-qualified firms.
- iii. The Mechanism shall be applicable for suppliers / bidders / contractors / local agents / representatives / consultants / firms / individuals / distributors / Manufacturers / organization transacting business with IESCO.

- iv. Wherever any provision of this mechanism shall be in conflict with provisions of any applicable guidelines of donor agencies, or any other applicable Statute / Law or Rule enforced at the time in Pakistan, the provisions of the Statute / Law or rule shall prevail.
- v. After Approval of this mechanism by the competent Authority, it shall be considered an integral part of bidding document/tender document/RFP as well contract agreement/Purchase Order, unless otherwise specified PPRA rule-5. The bidder will submit an Undertaking along-with their bid that they have read and accept the provisions of this Mechanism. Non-submission of an Undertaking may result in rejection of their bid. The said Undertaking will subsequently become part of the Contract Agreement as well.

1.3 Basic Principles of Blacklisting Mechanism

Following are the important basic principles of Blacklisting Mechanism::

- i. To lay down effective mechanism for disciplining deviant Contractors against whom, misconduct has been established;
- ii. An opportunity will be provided to any contractor alleged to have committed an act of misconduct, to defend himself;
- iii. The formal hearing be conducted by a Committee/Committees.
- iv. The presenter has the sole responsibility for deciding the terms of suspension.
- v. Blacklisting is a temporary action and not permanent measure.
- vi. The period of blacklisting / suspension would invariably depend upon the seriousness / nature of offence committed by the erring contractor.
- vii. Blacklisting Mechanism is applicable for all type of national or international contractors, manufacturers, consultants, pre-qualified contractors /manufacturers, local agents, distributors and suppliers.

CHAPTER NO. 2

GROUND S FOR BLACKLISTING

2.1 General Grounds

The following shall comprise the broad multilateral grounds for blacklisting:

- i. **Corrupt Practice**" the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution;
- ii. **Fraudulent Practice**" a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract
- iii. **Collusive Practice**" a scheme of arrangement between two or more bidders, with or without the knowledge of the Purchaser, designed to establish bid price at artificial, non-competitive levels, and
- iv. **Coercive Practice**" harming or threatening to directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract.

In addition to above, blacklisting of firms/individuals may be resorted to when the charges are of serious nature, which include but are not limited to the following:

2.2 Grounds at Competitive Bidding Stage

The procuring Agency shall impose on bidder(s)/JV/Entities/Consulting firm(s) or prospective bidders the penalty of suspension or blacklist them for a specific period for the offense from participating in the public bidding process, without prejudice to the imposition of additional administrative sanctions as the internal rules of the agency may provide and/or further criminal prosecution, as provided by applicable laws, for the following violations:

- i. Indulging in Corrupt, Fraudulent as well as Collusive & Coercive Practices.
- ii. Submission of eligibility requirements containing false information or falsified or spurious documents
- iii. Submission of false/forged/unauthentic Bid Security/Pay Order/CDR or infringement of documents to get undue monetary or any other benefit.
- iv. Submission of Bids that contain false information or falsified documents, or the concealment of such information in the Bids or making frivolous complaints and allegations in order to influence the outcome of eligibility screening or any other stage of the public bidding.

- v. Unauthorized use of one's name, or using the name of another for purpose of public bidding.
- vi. Withdrawal of a bid after submission, or refusal to accept an award, or enter into contract with the government without justifiable cause, after he had been adjudged as having submitted the Lowest Calculated Responsive Bid or Highest Rated/ranked Responsive Bid.
- vii. Refusal or failure to submit the required performance security within the prescribed time limit.
- viii. Any documented unsolicited attempt by a bidder to unduly influence the outcome of the bidding in his favor.
- ix. All other acts that tend to defeat the purpose of the competitive bidding, such as but not limited to: an eligible contractor not buying bid documents from procuring agency or not complying with the requirements during bid evaluation, and contractors habitually withdraw from bidding for at least three (3) times within a year.
- x. Bidder(s) (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the procuring agencies of the benefit(s) of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty;
- xi. Involved in litigation or needless petitioning to influence or obstruct the procurement process either on his own behalf or at the behest of any other vested interest.
- xii. Breach of confidentiality of evaluation process as mentioned in Appendix-I based on illegal access or in any way to get undue benefit or to provide benefit or to frustrate the bidding/evaluation process. This will also include attempts to sabotage the bidding process directly or indirectly.
- xiii. Any effort by the bidder to influence the procuring agency in the examination, evaluation, ranking of Proposals, and recommendation for award of Agreement.

In addition to the penalty of suspension, the bid security posted by the concerned bidder or prospective bidder shall also be forfeited.

2.3 Grounds at Contract Implementation Stage

Without prejudice to the imposition of additional administrative sanctions as the internal rules of the procuring agency may provide and/or further criminal prosecution as provided by applicable laws, the procuring agency shall take against the contractors after the termination of the contract, the action of suspension for specific period from participating in the public bidding process, for violations committed during the contract implementation stage, which include but not limited to the following:

- a. Indulging in Corrupt, Fraudulent as well as Collusive & Coercive Practices.
- b. Extraordinary delay in signing or refusal to accept the Notification of Award (NOA) and/or the contract without any cogent reason.
- c. Failure of the contractor, due solely to his fault or negligence, to mobilize and start work or performance within the specified period in the Notice of Award (NOA).
- d. Submission of fake / frivolous or mutilated Performance Guarantee or Advance Payment guarantee etc.
- e. Failure by the contractor to fully and faithfully comply with its contractual obligations without valid cause, or failure by the contractor to comply with any written lawful instruction of the procuring entity or its representative(s) pursuant to the implementation of the contract. For the procurement of infrastructure projects or consultancy contracts, lawful instructions include but are not limited to the following:
 - i. Employment of competent technical personnel, competent engineers and/or work supervisors; and Deployment of committed equipment, facilities, support staff and manpower; and
 - ii. Provision of warning signs and barricades in accordance with approved plans and specifications and contract provisions;
 - iii. Stockpiling in proper places of all materials and removal from the project site of waste and excess materials, including broken pavement and excavated debris in accordance with approved plans and specifications and contract provisions;
 - iv. Renewal of the effective dates of the performance security after its expiration during the course of contract implementation.
- f. Assignment and subcontracting of the contract or any part thereof or substitution of key personnel named in the proposal without prior written approval by the procuring entity.
- g. For the procurement of goods, unsatisfactory progress in the delivery of the goods by the manufacturer, supplier or distributor arising from his

fault or negligence and/or unsatisfactory or inferior quality of goods, as may be provided in the contract or as under:

- i. Deviations from specifications and terms & conditions of the purchase order/contract.
- ii. Provision of fake prototype/type test reports
- iii. Provision of fake inspection call FAT/Type test
- iv. Failure to rectify the fault/damage/problem during period of warrantee
- v. Supply of goods through inappropriate way such as smuggling of goods
- vi. Supply of stolen goods/re-sold goods.
- vii. Provision of fake /forged custom /taxes /duties documents
- h. For the procurement of consulting services, poor performance by the consultant of his services arising from his fault or negligence. Any of the following acts by the consultant shall be construed as poor performance and is liable to be Blacklisted:
 - i. Defective design resulting in substantial corrective works in design and/or construction;
 - ii. Failure to deliver critical outputs due to consultant's fault or negligence; and
 - iii. Specifying materials which are inappropriate, substandard, or way above acceptable standards.
 - iv. Allowing defective workmanship or works by the contractor being supervised by the consultant.
 - v. Submitting CV's of key personnel in the prequalifying process or bid documents of professionals that are not in actual employment of the bidder or without consent of experts.
 - vi. Acting together (Contractor & Consultant) in secret toward a fraudulent or illegal end
- i. For the procurement of infrastructure projects, poor performance by the contractor or unsatisfactory quality and/or progress of work arising from his fault or negligence. Any of the following acts by the constructor shall be construed as poor performance:

- i. Negative slippage of 15% and above within the critical path of the project due entirely to the fault or negligence of the contractor; and
- ii. Quality of materials and workmanship not complying with the approved specifications/Drawing(s) arising from the contractor's fault or negligence.
- iii. Unnecessary delay in completion of project
- iv. Failure to rectify fault/problem/damages during defect liability.
- j. Willful or deliberate abandonment or non-performance of the project or contract by the contractor resulting to substantial breach thereof without lawful and/or just cause.
- k. In addition to above, other grounds for blacklisting of firms/individuals include but are not limited to the following:
 - i. Obtaining fraudulent payments;
 - ii. Obtaining contracts by misleading the purchaser;
 - iii. Refusal to pay IESCO dues etc.;
 - iv. Failure to fulfill contractual obligations Changes in the status of firm's ownership/partnership etc., causing dissolution of the firm which existed at the time of inspection prior to original registration of the firm
 - v. Registration of a firm with a new name by the Proprietor or family or a nominee thereof of a firm that has been already blacklisted;
 - vi. Contractors who have negotiated Plea Bargain under the National Accountability Ordinance 1999, or contractors involved with any other criminal proceedings conducted by any investigation agency where default has been proved specifically in relation to supplies made to or contracts concluded with IESCO or department thereof;.
 - vii. Non-compliance of the existing policy/rules/law of GoP during execution of contract.
 - viii. Hiring of underage personnel for assignments or works violating Child Labor (Prohibition and Regulation) Amendment Bill, 2016.
 - ix. Non-Adherence to safety codes.

For the Blacklisting of a Firm, in addition to the penalty of suspension for a certain period, the performance security posted by the contractor shall also be forfeited.

CHAPTER NO. 3

FORMULATION OF “IESCO STANDING COMMITTEE FOR BLACKLISTING”

3.1 Defining Structure of Committee

A permanent Committee namely “IESCO’s Standing Committee for Blacklisting” comprising of the following members shall examine the justification of the reasons given by the Project Authority prior to blacklisting / debarment of any firm/supplier/contractor/ individual.

i. General Manager Technical	Convener
ii. Director General/ Manager (Legal) IESCO	Member
iii. Representative of Finance Director (Not Less than the Rank of Manager)	Member
iv. Deputy Manager (Village Electrification Cell)	Member
v. Deputy Manager Procurement PMU	Member

The quorum for committee meeting will be 3 members including the Convener, the presence of Convener is mandatory. Committee shall evaluate the case and develop consensus however, in case of conflict among the member of committee, decision of convener shall be considered final.

3.2 Provision of Additional Member

Depending upon the nature of the case, the Committee may consult or appoint / nominate additional members from within IESCO with the approval of Chief Executive Officer (CEO) IESCO, provided that the Committee consists of an odd number of individuals as per spirit of Rule 48(1) of the PPRA Rules. Independence of any additional members shall be ensured while making the selection of such additional members. Furthermore, the aforementioned Standing Committee shall also be authorized to seek external expert advice or call any employee of IESCO as and when required.

3.3 Timeline for Finalization of Recommendations

The committee shall finalize its recommendations within the time specified in this mechanism.

CHAPTER NO. 4

PROCEDURE FOR SUSPENSION AND BLACKLISTING.

4.1 The Competitive Bidding Stage

4.1.1 Initiation of Action

Upon receipt of or obtaining information and / or knowledge that any person(s) is involved in practices mentioned in Article 2.1 and 2.2 of the Mechanism, the concerned project Authority / formation may initiate the suspension and blacklisting proceedings by filing its recommendations with the procuring agency or procuring agency also motu proprio (by itself) commence the proceedings upon prima facie (self-sufficient) determination that the bidder/ prospective bidder/ JV/ Person/Entity has committed any of the grounds for blacklisting during the competitive bidding stage as mentioned in article-2.1 & article-2.2 of the policy.

The Project Director or Project implementation Agency shall provide substantial evidence for the person/entity/JV/Firm against whom the case for blacklisting has been initiated.

4.1.2 Notification

Upon verification of the existence of grounds for blacklisting, the procuring agency shall immediately notify the contractor concerned in writing, advising him that:

- a. Complaint for suspension and blacklisting has been filed against him, or he has been considered by the procuring agency for suspension and blacklisting, stating the grounds for such;
- b. He has the opportunity to explain his position regarding why he should not be suspended and blacklisted;
- c. Hearing shall be conducted before the procuring agency or “IESCO’s Standing Committee for Blacklisting”, upon his request, where he may present documentary evidence, verbal testimony and cross-examine the witnesses presented against him; and
- d. The consequences of being suspended and blacklisted.

Within seven (7) calendar days from receipt of notification, the bidder shall submit its written answer with documentary evidence to the procuring agency or “IESCO’s Standing Committee for Blacklisting” with a manifestation for request of hearing to determine questions of fact, if he so desires. No time extension shall be allowed. if contractor fail to answer within the stipulated period, the procuring agency shall issue a resolution recommending its blacklisting with the immediate suspension of the contractor from participating in any bidding process of the agency for a certain period and the forfeiture of his bid security.

4.1.3 Hearings

If a hearing is requested by the contractor, the procuring agency shall immediately set the date and time for hearing. The hearing shall be non-litigious and shall be terminated within five (5) days. The procuring agency shall constitute an independent "Hearing Committee" comprising of odd Number members. The procuring agency may also invite a representative from PPRA or a duly recognized private group in a sector or discipline relevant to the procurement at hand as an observer for each hearing.

If no request is made, the procuring agency shall make a determination of the case based on the complaint, answer, documentary evidence submitted and facts verified. If the procuring agency is convinced that the contractor/bidder is at fault, it shall issue a resolution recommending for its blacklisting with suspension of the bidder from participating in any bidding process of the agency and the forfeiture of his bid security.

4.1.4 Decision

The Head of the Procuring Entity shall, within fifteen (15) days from receipt of the resolution and the records of proceedings, determine whether reasonable cause exists for the suspension of the contractor and the forfeiture of the latter's bid security. If the Head of the Procuring Entity determines that such reasonable cause exists, he shall issue a decision regarding its blacklisting and suspending the contractor from participating in any bidding process of the agency, and further declaring that his bid security is forfeited. Otherwise, he shall dismiss the case.

The decision shall clearly and distinctly state the facts, evidence and the law on which it is based, as well as the date of effectiveness of the penalty, if any.

In case a contractor commits more than one offense or a combination of offenses for the same project/contract in a particular agency, each violation shall be met the corresponding penalty.

4.1.5 Notice of Decision

The procuring agency shall furnish the suspended contractor a copy of the decision immediately from its promulgation.

4.2 Contract Implementation Stage

4.2.1 Initiation of Action

Procuring Agency shall commence the proceedings upon prima facie (self-sufficient) determination that the contractor has committed any of the grounds for blacklisting during the contract implementation stage as mentioned in bidding document/Contract agreement or any event as mentioned in article-2.1 & article-2.3 of the policy of written complaint from Engineer/ consultant/ supervisory office.

The Project Director or Project implementation Agency shall provide substantial evidence for the person/entity/JV/Firm/Contract against whom the case for blacklisting has been initiated.

4.2.2 Notification

Upon verification of the existence of grounds for blacklisting, the procuring agency shall immediately notify the contractor concerned in writing, advising him that:

Within seven (7) calendar days from receipt of notification, the contractor shall submit its written answer with documentary evidence to the procuring agency with a manifestation for request of hearing to determine questions of fact, if he so desires. No time extension shall be allowed.

If the contractor fail to answer within the stipulated period, the procuring agency shall issue a resolution recommending the blacklisting with immediate suspension of the contractor from participating in any bidding process of the agency and the forfeiture of his bid security.

4.2.3 Hearings

If a hearing is requested by the contractor, the procuring agency shall immediately set the date and time for hearing. The hearing shall be non-litigious and shall be terminated within five (5) days. The procuring agency shall constitute an independent "Hearing Committee" comprising of odd Number members. The procuring agency may also invite a representative from PPRA or a duly recognized private group in a sector or discipline relevant to the procurement at hand as an observer for each hearing.

If no request is made, the procuring agency shall make a determination of the case based on the complaint, answer, documentary evidence submitted and facts verified. If the procuring agency is convinced that the contractor is at fault, it shall issue a resolution recommending for blacklisting with suspension of the contractor from participating in any bidding process of the agency and the forfeiture of his performance security.

4.2.4 Decision

The procuring agency shall, within fifteen (15) days from receipt of the resolution and the records of proceedings, determine whether reasonable cause exists for the suspension of the contractor and the forfeiture of the latter's performance security. If the Head of the Procuring Entity determines that such reasonable cause exists, he shall issue a decision for blacklisting the contractor with suspending the contractor from participating in any bidding process of the agency, and further declaring that his performance security is forfeited. Otherwise, he shall dismiss the case.

The decision shall clearly and distinctly state the facts, evidence and the law on which it is based, as well as the date of effectivity of the penalty, if any.

In case a contractor commits more than one offense or a combination of offenses for the same project/contract in a particular agency, each violation shall be met the corresponding penalty

4.2.5 Notice of Decision

The procuring agency shall furnish the blacklisted contractor a copy of the decision immediately from its promulgation.

CHAPTER NO. 5

REVIEW AGAINST DECISION OF THE PROCURING AGENCY

5.1 Filing an Appeal for Review against decision

The Contractor shall have the right to lodge request to review the blacklisting decision, if the same is convinced that some concrete evidence proves the case otherwise in favor of the Contractor. For this purpose, the same will file an appeal within five (5) days from receipt of the notice of decision.

5.2 Constituting Decision Review Committee

The procuring agency shall constitute an independent “Decision Review Committee” comprising of three members and external observer(s) preferably PPRA representative.

5.3 Timeline for Deciding the Appeal

Committee shall resolve with finality the review application within ten (10) days from the filing thereof and furnish blacklisted/suspended contractor/bidder a copy of the resolution immediately from its promulgation.

5.4 Finalization of the Decision

The decision of the committee shall become final and executor after the lapse of fifteen days from the receipt of the notice of decision or decision of review application. If an appeal is filed, the affirmed, modified or reversed decision shall become final and executory upon receipt thereof by the department and person/entity concerned. Upon finality of the decision suspending the contractor, the procuring agency shall issue a Blacklisting Order disqualifying the erring contractor from participating in the bidding of all projects.

CHAPTER NO. 6

APPEAL

6.1 Filing an Appeal with the Authority

The Contracting Firm shall have the right to file an appeal with the Authority within ten days from the date of receipt of the decision for either or both of the following causes, provided that only a single application shall be filed with the Authority:

- a. The decision is not in conformity with the evidence and/or facts presented, hence does not construe grounds for Blacklisting laid down under Rule 19 of the PPRA Rules – 2004; and
- b. Newly discovered evidence or facts which could not be discovered and produced at the investigation and which when presented would probably alter the result of the investigation.

CHAPTER NO. 7

PERIOD OF DEBARMENT

7.1 Period of Debarment for Blacklisted Firms

The Blacklisting shall be for a reasonable specified period of time and as a general rule of prudence, the period may not exceed three years. The following time periods shall be considered for debarment on account of blacklisting;

Causes of Blacklisting	Time for Debarment
Corrupt & fraudulent & collusive practices, criminal breach of trust.	03 years
Submission of fake documents including financial instruments like securities & guarantees, submission of false Financial statement / Audit reports etc.	03 years and forfeiture of securities
Making false statement and allegation to gain undue advantage	03 years and forfeiture of securities
Commission of embezzlement, theft, cheating, forgery, bribery, falsification or destruction of records, receiving stolen property, false use of trademark, securing fraudulent registration, giving false evidence, furnishing false information.	03 years and forfeiture of securities
Breach of confidentiality of evaluation process as mentioned in Appendix 1 hereto	06 month to 02 years as mentioned in Appendix-1 and forfeiture of securities
Extraordinary delay in signing or refusal to accept a procurement contract without cogent reasons, when the bid has been accepted by IESCO	06 month to 02 years as determined by the committee and forfeiture of securities
Non-satisfactory performance as mentioned in Appendix-2	2 years and forfeiture of securities
The contractor was blacklisted by the government or the donor agency and subsequently adopted by IESCO	3 years or the time period for which the concerned agency debarred the contractor, whichever is higher

In case the person/ contractor / firm/ consortium appeared in Consolidated Blacklisting Report shall also be considered debarred in participation of bidding process.

Note: All the penalties given herein above will be in addition to the consequences already agreed upon by the parties in the contract or any other documents.

CHAPTER NO. 8

APPRAISAL TO PROCUREMENT COMMITTEE/BOARD OF DIRECTORS

8.1 Appraisal of Blacklisted Firms to Procurement Committee/ Board of Directors (BoD)

The Procuring Agency shall apprise the Procurement Committee/Board of Directors (BoD) before communicating its Blacklisting decision to the Authority, if a Firm/Company/Bidder/JV/Manufacturer/Subcontractor/Consultant etc. is declared blacklisted by the IESCO.



CHAPTER NO. 9

COMMUNICATION OF NOTIFICATION TO AUTHORITY

9.1 METHODOLOGY FOR COMMUNICATION OF NOTIFICATION TO THE PPRA/NTDC/WAPDA/DISCOs

9.1.1 Unless otherwise provided in these policies, the blacklisting agency concerned shall submit to the PPRA /NTDC/WAPDA /DISCOs, within seven (7) calendar days after the issuance of the blacklisting order/delisting orders made by the agency, the following documents:

- a. Blacklisting Order duly signed by the Head of procuring agency containing, among others, Department/Office Order or Board Resolution number, name and address of the blacklisted person/entity, license number, if applicable, project/contract and location/amount, specific ground(s)/offense(s) committed as provided in article-9, sanction imposed and its date of start and completion, date of issuance of the order to blacklist, and other conditions which can extend duration of sanctions in article-9.
- b. Delisting Order duly signed by the blacklisting agency containing, among others, Department/Office Order or Board Resolution number, name and address of the blacklisted person/entity, name of project/contract and location, specific sanction being lifted and the number of previously issued blacklisting Department/Office Orders or Board Resolutions, effectively date of delisting, and date of delisting approval.

9.1.2 The PPRA shall prepare the Consolidated Blacklisting Report every quarter, based on the submitted Blacklisting Orders and disseminate the same to procuring agencies. The report shall be further posted in the PPRA website and shall indicate the number of times a person/entity has been blacklisted, the type of offense/violation committed, the penalty imposed, and the blacklisting agency concerned. The PPRA shall delist from such report those whose sanctions are lifted automatically after serving the given penalty as provided for in article-9 hereof and those whose sanctions are lifted through the issuance of Delisting Orders.

9.1.3 In the case of procurement of infrastructure projects, a blacklisting agency should decide to refer the case of its blacklisted person/entity to Pakistan Engineering Council (PEC)/SECP for license suspension/revocation, it shall submit

to PEC/SECP a copy of the decision accompanied with supporting documents.

- 9.1.4** All existing blacklisting reports of the Government or any of its procuring agencies, as well as the list of constructors/Consultant/consulting firms whose licenses are suspended or revoked by the PEC as of the date of effectiveness, are hereby adopted and made part of the PPRA Consolidated Blacklisting Report upon the issuance of these orders.

9.2 EFFECTIVENESS

These guidelines / mechanism or any amendments thereof shall take effect immediately after its approval from Board of Directors of IESCO.

9.3 AMENDMENTS

In the implementation of this policy, the IESCO/PPRA may introduce modifications thereto through the amendment of its specific provisions as the need arises. Any amendment to this policy shall be applicable to government projects advertised for bid after the effectiveness of the said amendment.

9.4 DELISTING

A blacklisted person/entity shall automatically be delisted after the period for the penalty shall have elapsed, unless the blacklisting agency requests the PPRA/NTDC/DISCOs/WAPDA to maintain the blacklisted person/entity in the PPRA/PPRA/NTDC/DISCOs/WAPDA Consolidated Blacklisting Report due to justifiable reasons. In the latter case, the blacklisted person/entity shall be delisted only upon the blacklisting agency's issuance of a Delisting Order.

APPENDIX-1

PROCESS TO DEAL WITH COMPLAINTS

It has been frequently observed that after opening of tenders, the bidders start to influence the evaluation process. Such misleading attempts results in delay in finalizing of award of contract and cause financial loss to the National exchequer and stain its sanctity. The evaluation process is confidential till publication of award of contract process.

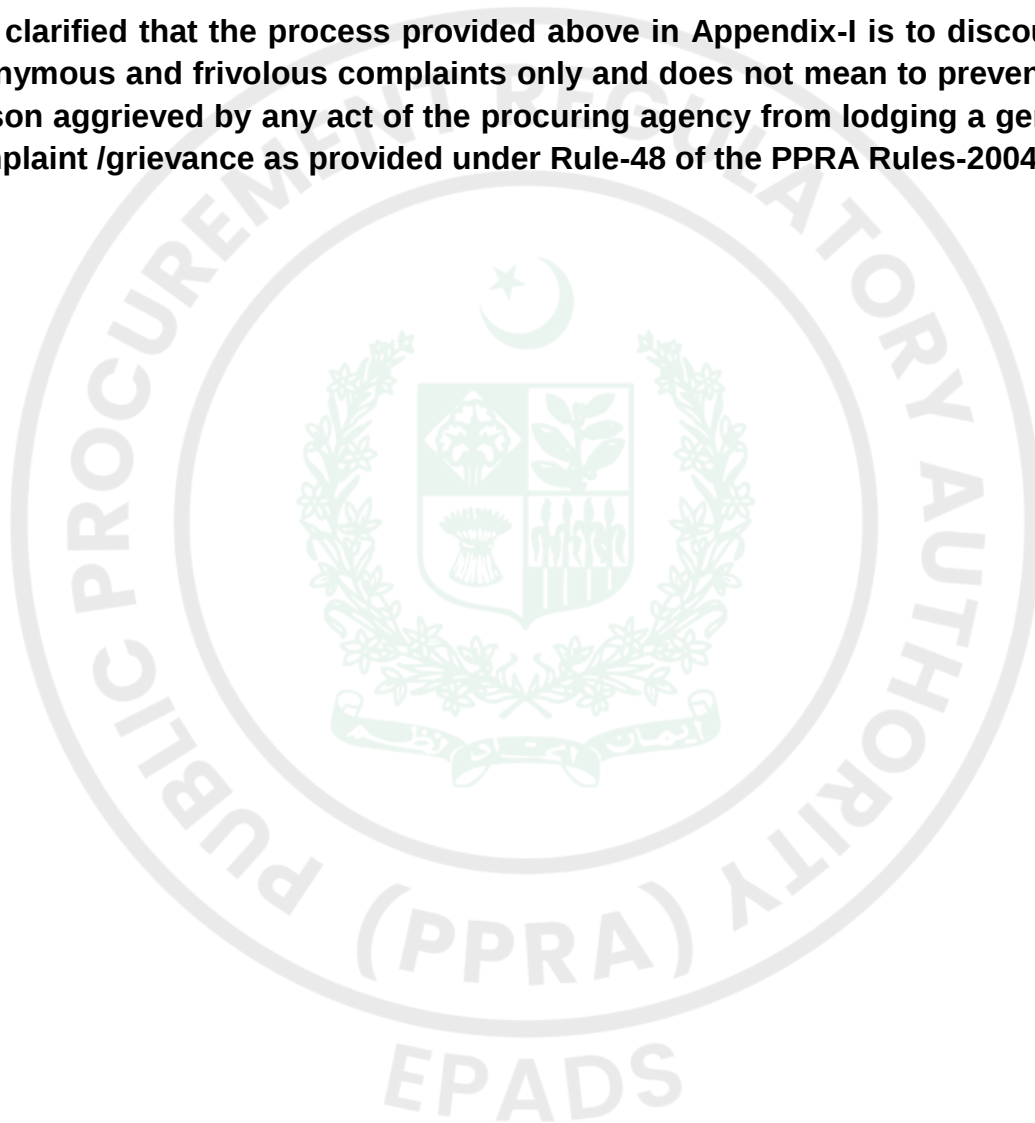
Provision of guidelines of international donor agencies and PPRA provides sufficient opportunity to bidders for redressal of their grievances. Hence, the attempts made by the bidders during evaluation process or thereafter to influence the contract award decisions fall under the definition of corrupt and fraudulent practices. Therefore, during bidding stage, the following mechanism shall be adopted in case of receipt of any complaint from the bidder.

- i. Anonymous complaints shall not be entertained.
- ii. The Procuring Agency reserves the right to call for an affidavit from the complainant verifying the truthfulness and correctness of the contents of the complaint.
- iii. The notice of displeasure and explanation will be immediately sent to those firms who lodge the complaint during the evaluation process.
- iv. If the firm itself or through its agent or any third party does not refrain from making complaints in the same tender, the official warning will be sent and their case will be sent to IESCO's Rights Protection Committee which may analyses the situation and suggest action including the rejection of the bid of the complainant, However, Project Authority with prior approval of CEO IESCO. May reject the bid even in first instance depending upon nature of the case or provision of the Bidding Documents.
- v. If the same bidder itself or through its agent or any third party lodges complaint in another tender floating in parallel before decision of Committee, its bid will straight forwardly be rejected by the project authority. It may also be debarred to participate in the next tender for six months under intimation to the Committee and CEO IESCO.
- vi. If the same bidder itself or through its agent or any third party lodges complaint third time in the same or any other tender within a period of one years, its bid will be rejected and bid security will be forfeited by the project authority. It may also be debarred to participate in the next tender for one year under intimation to the committee and CEO IESCO.
- vii. In order to monitor the record of the bidders, a data base will be maintained at IESCO's website and the offices of the project authorities regarding firms / supplier / contractors/consultant who consistently lodge complaints during the evaluation process by making clandestine access to confidential record and hamper the award of contract process.

- viii. In order to monitor the record of the persons, a data base will be maintained at IESCO's website and offices of the project authorities regarding such persons who consistently lodge frivolous complaints during the evaluation process by making clandestine access to confidential record and hamper the award of contract process.

NOTE:

It is clarified that the process provided above in Appendix-I is to discourage anonymous and frivolous complaints only and does not mean to prevent any person aggrieved by any act of the procuring agency from lodging a genuine complaint /grievance as provided under Rule-48 of the PPRA Rules-2004.



APPENDIX-2

GUIDELINES FOR EVALUATION OF PERFORMANCE OF CONTRACTORS

- i. After signing of the contract, the Project authority (or the Consultant / Engineer) must monitor and evaluate the Contractor's performance, that is, whether the Contractor is fulfilling his obligations based on the terms of the contract and plans that were developed and agreed upon with the Project authority at the time of signing of contract or during kick-off meetings. In case of breach of contract or consistent non-performance security or debarment / blacklisting.
- ii. Though the contractor's performance evaluation is an on-going process, which takes place throughout the duration of the contract and also during the Defect Liability / Warranty Period, hence a Contractors Performance Evaluation Report shall be drafted by the project authority once all of the contractual obligations of the latter have been completed so that the project authority have gained a more complete picture that will help it in formulating a more objective judgment.
- iii. The performance evaluation report may be prepared for all contracts of more than Rs. 50 million. When based on the Evaluation Report, the performance of the contractor is non-satisfactory in. EPC contract(s) (or the contractor receives 02 No Notices of Default within same contract or against consecutive contract (s) within a period of 2 years) and 03 No supply contracts awarded within a period of 02 years, the procuring agency may initiate the case of blacklisting of the contractors in accordance with the terms of this mechanism.
- iv. In case of any extra-ordinary delay in performance of a single contract of vital and critical importance, the procuring agency shall have the right to terminate the contract, recover the loss and debar the bidder/firm/JV/contractor/consultant from participation in future tenders. The procuring agency shall be the sole judge to determine the importance of the project.
- v. The above said assessment will be in addition to the provisions already agreed by the parties in the contract or any other documents.



No.

/IESCO/ISB

Dated:

Form for Hearing

Through Registered AD, Courier Service or email or Fax

1. A committee for investigation of blacklisting Proceedings in furtherance of Rule 19 PPRA, 2004 has been constituted to investigate and decide upon the allegations at Para-2/below. You are required to appear in person or defend in writing with evidence on _____ at IESCO Head Office as to why you should not be blacklisted for:
2.

*****Add charge*****
3. You are being given an opportunity to be heard and are required to appear in person or defend in writing with evidence on _____ at IESCO Head Office. In case of you failure to attend or pay heed the Committee shall proceed ex-parte.
4. [To be added in the third notice]. As of final notice you are directed to furnish a satisfactory explanation in writing with supporting evidence within three days of receipt of this notice, to show cause as to why the blacklisting penalty may not be imposed. Failing to pay heed to this last notice shall stand a presumption against you that you have no explanation to offer and the matter shall be proceeded ex-part.

General Manager (Technical)
IESCO Head Office,
Street No. 40, Sector G-7/4.
Islamabad - 46000

TYPE TEST Requirements

The contractor shall supply valid type test reports according to WAPDA/NTDC specification along with the bid for the material offered. In case the type test reports furnished by the bidder are not from one of the laboratories mentioned below or any other reputed independent testing laboratories accredited by STL (Short-Circuit Testing Liaison) or are not relevant to the material offered or do not meet or comply with the ratings and other requirements of the Purchaser's Specifications included in this bidding document or are otherwise not to the satisfaction of the Purchaser in any respect, the bidder has to arrange Type testing at any one of the below mentioned laboratories at his cost without disturbing the stipulated delivery period given above duly witnessed by IESCO Engineers.

1. HV & SC Lab, Rawat, Pakistan
2. KEMA Lab, Holland
3. CESI, Italy
4. CRIEPI Lab, Japan
5. KERI Lab, Korea
6. Any other lab approved by STL
7. ILAC Lab

(DRAFT)
SPECIFICATION P-192:94

132KV CAPACITOR BANKS AND CONTROL
EQUIPMENT

PAKISTAN
WATER AND POWER DEVELOPMENT AUTHORITY
DESIGN DEPARTMENT (T&G)
OCTOBER, 1994

Specification P-192:94

Amendment No. 1 dated 23/5/2009

Following revision is hereby made in the NTDC Specification P-192:94

The requirements given in Specification P-192:94 are amended to the extent as indicated below:

- i) Rated voltage of the capacitor unit shall be at the discretion of the bidder but not exceed 21kV.
- ii) The rated capacity of the capacitor unit shall be 400kVAR.
- iii) If the ordered bank rating is less than 48 MVAR, it shall be possible to extend the bank upto 48MVAR by simply adding more capacitor units in the space available in the existing racks.
- iv) The impulse withstand voltage for the capacitor unit and bushing shall meet the requirements of IEC and the min. creepage distance of the bushing shall be 31mm/kV of unit rating.
- v) The design and capacity of the rack shall be modified in accordance with the capacity of bank indicated in (iii) above and rated voltage, rated capacity of capacitor units to maintain the overall insulation level of the bank as well as various sections and stacks.

PPRA
EPADS

12
23/5

23/5
09

SPECIFICATION NO. P-192:94
132kV CAPACITOR BANKS & CONTROL EQUIPMENT

AMENDMENT NO. 2 DATED 22-4-2010

Following amendment is hereby made in NTDC Specification No. P-192:94 and the already issued Amendment No. 1 dated 25-3-2009 stands withdrawn:

- 1- Replace clause 1.3 with the following:

Clause 1.3

If a complete capacitor bank of a given MVAR rating is ordered, the supplier shall offer banks with internally fused type capacitors complying with the following requirements:

- a) The rating capacity of the capacitor units shall be 400kVAR only.
 - b) If the ordered bank rating is 24 or 48 MVAR, manufacturer shall supply the capacitor racks extendable upto 48 or 72 MVAR respectively by simply adding more capacitor units in the space available in the existing racks in future.
 - c) The design of capacitor racks specified in clause 4 shall be modified in accordance with the capacity/type of bank indicated above.
 - d) The min. number of capacitor units connected in parallel in a series group shall be 2.
- 2- Clause 1.4 is hereby deleted.
- 3- Replace clause 3.2.1 with the following:

Clause 3.2.1

The standard ratings of capacitors shall be as under:

Capacity	400 kVAR
Rated voltage	13.8kV to 16.56kV
Rated frequency	50Hz
Impulse withstand test voltage (peak value)	125kV
Energy handling capability (min.)	15 kJ



ADDENDUM

The requirements given in specifications No. P-192; 94 are amended to the extent as indicated below;

- i. Rated voltage of the capacitor unit shall be at the discretion of the bidder but not exceed 21 KV
- ii. The rated capacity of the capacitor unit shall be 400 KVAR
- iii. If the ordered bank rating is less than 48 MVAR, it shall be possible to extend the bank up to 48 MVAR by simply adding more capacitor units in the space available in the existing racks.
- iv. The impulse withstands voltage for the capacitor unit and bushing shall meet the requirements of IEC and minimum creepage distance of the bushing shall be 31 mm/KV of unit rating.
- v. The design and capacity of the rack shall be modified in accordance with the capacity of the bank indicated in clause (iii) above and rated voltage, rated capacity of the capacitor units to maintain the overall insulation level of the banks as well as various sections and stacks.

CONTENTS

0. Foreword
1. Scope
2. Service Conditions
3. Capacitors
4. Rack Assembly
5. Current Transformers
6. Potential Transformers
7. Disconnect Switches
8. Lightning Arrestors
9. Circuit Breaker
10. Control and Protection Equipment
11. Enclosures

SPECIFICATION P-192:94
132KV CAPACITOR BANKS AND CONTROL EQUIPMENT

0. FOREWORD

- 0.1 This standard specification has been prepared by the standards and Research Directorate of the Design Department (T&G) WAPDA and lays down requirements for capacitors, racks and allied equipment for outdoor, non-enclosed, high voltage shunt capacitor banks.
- 0.2 The original specifications captioned P-192: 93 was based on externally fused capacitor connected in ungrounded Y configuration with unbalanced protection provided by sensing neutral to ground voltage. Consequently it was experienced that use of internally fused capacitor in ungrounded double Y configuration was more economical. Hence the special version of this specification is based on the later option.
- 0.3 This specification is intended for procurement of material and does not include provisions of a contract.
- 0.4 This specification is subject to revision as and when required.
- 0.5 This specification is mainly based on following WAPDA Specifications and IEC Publications. If any requirement laid herein differs from that of relevant IEC or WAPDA Specifications the requirements laid herein shall prevail.

IEC-871 (1987)	Shunt Capacitors. for A.C. Power system having a rated voltage above 600V.
IEC - 28 (1925)	International Standard of Resistance of High voltage fuses for capacitors// Internal fuses for capacitors
IEC - 273 (1990)	Characteristics of indoor and outdoor post insulators for system with nominal voltage greater than 1000V.
IEC - 56 (1987)	High voltage alternating current circuit breaker
IEC - 694 (1980)	Common clauses for high voltage switchgear and control gear standard.
WAPDA Spec. P-82:81	Zinc Coating
WAPDA Spec. P-84:71	Tin Coating
WAPDA Spec. P-90:83	Steel Nuts and Bolts
WAPDA Spec. P-90:82	Current Transformers.
WAPDA Spec. P-128; 82	Alternating Current Disconnecter
WAPDA Spec. P-129; 85	Voltage Transformers
WAPDA Spec. P-181:85	Lightning Arrestor
WAPDA Spec. P-182:91	Supporting Steel Structure for Grid Station Equipment
WAPDA Spec. P-151:81	Relays, Instruments, Switches and Auxiliary
Spec. P-152:81	Construction of control and relay panels.

1. SCOPE

- 1.1 This specification covers following equipment used for outdoor, non-enclosed 132 KV shunt capacitor banks.

3.11.1.8 Schedule of technical data ;

Sr. No.	Description	Unit	Guaranteed Data
1.	Manufacturers name and address		
2	Year of manufacturing		
3	Manufactures type designation		
4.	Rated voltage	Volts	
5.	Rated frequency	HZ	
6	Capacity	KVAR	
7	Power frequency dry test voltage rms (between terminal and containers)	KV	
8	Impulse withstand voltage 1 sec	KV	
9	Max. continuous working voltage	-----Time rated voltage	
10	Max permissible voltage 1 sec	Volts	
11	Max. permissible current	-----time current at voltage & frequency	
12	Tolerance in KVAR	%	
13	Internal discharge resistor drains residual charge to 75 V within time	Second----	
14	Guaranteed Capacitor Losses at 30 Deg C; a) for capacitor unit b) for capacitor bank	Watts/KVAR Watts/KVAR	
15	Capacitance at 30 Deg C	Micro farads	
16	Energy handling capability	Joules	
17	Life expectancy	Years	
18	Standard temperature category as per clause 3.2.3		
19	Rated altitude above sea level	Meters	
20	Bushing characteristics		
	i. manufacturers name and address		
	ii. Manufacturers type designation		
	iii. Material		
	iv. Rated voltage	KV	
	v. Power frequency withstand voltage	KV	
	vi. Impulse withstand voltage	KV	
	vii. Creepage distance	mm.	
	viii. Mechanical characteristics (attach sheet)		
21	SOLID DIELECTRIC		
	i. Material		
	ii. Manufacturers name		
	iii. Type designation		
	iv. Melting point	Deg. C	
22	Characteristics of Dielectric fluid		
	i. Specific gravity		
	ii. Flash point	Deg C	

3.10 Marking

3.10.1 The following information shall be labeled on each wooden box:

- i. Manufacture's name and trade mark
- ii. Wapda specification number
- iii. Rated output of the capacitor in KVAR
- iv. Address of the consignee and purchase order number
- v. Serial Nos. of the capacitors.
- vi. Instructions for lifting and handling of wooden boxes

3.11 Technical Data and Drawings

3.11.1 Bid Data / Drawings

3.11.1.1 The following drawings information and descriptive data shall be supplied with the bid.

3.11.1.2 Drawings and Data

3.11.1.3 Overall assembly drawing showing front, side and plan views, cross section shall be indicated to clearly show main constructional features. All loading dimensional including thickness of tank walls, material used in construction, method of connecting electrodes, thickness and material of insulation between racks and the tank shall also be indicated.

3.11.1.4 Detailed drawing of the bushings and its fixing arrangements.

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

3.11.1.6 Physical and electrical properties of polypropylene film used in construction of the capacitors.

3.11.1.7 Manufacturers shall supply manufacturing details elaborating design philosophy, engineering practices and quality control. Sufficient data and test reports shall be supplied to prove life expectancy and reliability of the capacitors. The data reports for the life/endurance tests under accelerated conditions, if already conducted by the manufacturers during design development of the capacitor shall also be furnished. The following information shall be also included;

- i. Effects of change of temperature on electrostatic capacity, dielectric loss tangent, corona starting voltages, insulation resistance and losses
- ii. Time/breakdown current, time/breakdown voltage curves and tank rupture probability
- iii. Procedure for handling the capacitor with ruptured tank and disposal of dielectric fluid.

3.7 Sampling, Acceptance and Rejection

- 3.7.1 The manufacturer shall provide all necessary facilities including testing equipment for carrying out tests free of cost to WAPDA Inspector. The cost of capacitors destroyed during testing shall be borne by the manufacturer.
- 3.7.2 The unit offered for acceptance shall be grouped into lots upto 500 units each. A sample of 10 Units shall be drawn from each lot at random.
- 3.7.3 The selected samples shall be subjected to visual examination and verification of dimensions. In case the number of defectives exceeds one, the entire lot shall be rejected. In case of defectives being one, another sample consisting of 20 units shall be drawn at random from the remaining lot and tests repeated. In case of any failure from the second sample. The entire lot shall be rejected.
- 3.7.4 For other routine tests specified in clause 6.1 five units shall be randomly selected from each lot containing upto 500 units each. In case more than one unit are found defective, another five units shall be randomly selected and tests repeated. In case of any failure from the second sample, the lot shall be rejected.

3.8 Name Plate

- 3.8.1 The following information shall be given on the name plate of each capacitor unit:
- i. Manufacture's name and trade mark.
 - ii. Identification number, year of manufacture
 - iii. Rated output in KVAR
 - iv. Rated terminal voltage in volts.
 - v. Rated frequency in Hz
 - vi. Basic insulation level in kV
 - vii. Temperature category as per clause 3.2.3
 - viii. Residual voltage discharge and time
 - ix. Reference WAPDA/International Standard.
 - x. Contract NO. and date
 - xi. Trade name of fluid
 - xii. Weight in kg.
- 3.8.2 A weather proof label reading as "Non PCB" or other form the ground shall be affixed preferably on the side containing the name plate.

3.9 Packing

- 3.9.1 Each unit 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 site in hot, wet, humid and dusty conditions and shall be capable of withstanding the rigors of rail, road and ocean shipment. One copy of installation and maintenance manual in English language shall be placed in each packing.

TABLE – I VISUAL EXAMINATION

<u>Examination</u>	<u>Defects</u>
1. Material	i. The parts of capacitor e.g. tank, insulators, terminal connectors, lugs are not made of specified materials. ii. The parts such as bushings, terminals connectors lifting lugs, damaged or missing. iii. Any leakage in the capacitor tank.
2. Finish	i. Not painted thoroughly or reasonably well, not finished properly, shows abrasions, wrinkles, runs, blisters, scratches and uncoated spots. ii. Poor adhesion of paint, when scratched with a knife peels off in chips or flakes in shape of ribbons. iii. The terminal connectors not in plated. iv. Tank welds not ground off properly.
3. Marking	i. Name plate markings missing incomplete, incorrect, illegible, not permanent. ii. "Non PCB" markings missing or not viewable from ground as required under clause 3.8.2.
4. Packing	i. Packing not as specified.
3.6.2 <u>Verifications of Dimensions</u>	The dimensions shall be measured for verifying conformance to Fig 1. Leading dimensions used be given.
3.6.3 <u>Sealing Tests</u>	Un-energized capacitor units shall be heated throughout so that all parts reach a temperature of at least the maximum operating internal mean temperature but not less than 75 deg. C. This temperature shall be maintained for two hours. No leakage shall occur, when tested with a suitable leakage indicator.
3.6.4 <u>Endurance Test</u>	Endurance test shall be carried out in accordance with IEC Report 871-2 (1987).
3.6.5 <u>Other Tests</u>	All other tests shall be carried out in accordance with EEC 871-1 (1987). The test voltages shall be accordance with clause 3.2.1 of this specification.

3.7 Sampling, Acceptance and Rejection

- 3.7.1 The manufacturer shall provide all necessary facilities including testing equipment for carrying out tests free of cost to WAPDA Inspector. The cost of capacitors destroyed during testing shall be borne by the manufacturer.
- 3.7.2 The unit offered for acceptance shall be grouped into lots upto 500 units each. A sample of 10 Units shall be drawn from each lot at random.
- 3.7.3 The selected samples shall be subjected to visual examination and verification of dimensions. In case the number of defectives exceeds one, the entire lot shall be rejected. In case of defectives being one, another sample consisting of 20 units shall be drawn at random from the remaining lot and tests repeated. In case of any failure from the second sample. The entire lot shall be rejected.
- 3.7.4 For other routine tests specified in clause 6.1 five units shall be randomly selected from each lot containing upto 500 units each. In case more than one unit are found defective, another five units shall be randomly selected and tests repeated. In case of any failure from the second sample, the lot shall be rejected.

3.8 Name Plate

- 3.8.1 The following information shall be given on the name plate of each capacitor unit:

- i. Manufacture's name and trade mark.
- ii. Identification number, year of manufacture
- iii. Rated output in KVAR
- iv. Rated terminal voltage in volts.
- v. Rated frequency in Hz
- vi. Basic insulation level in kV
- vii. Temperature category as per clause 3.2.3
- viii. Residual voltage discharge and time
- ix. Reference WAPDA/International Standard.
- x. Contract NO. and date
- xi. Trade name of fluid
- xii. Weight in kg.

- 3.8.2 A weather proof label reading as "Non PCB" or other form the ground shall be affixed preferably on the side containing the name plate.

3.9 Packing

- 3.9.1 Each unit 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 site in hot, wet, humid and dusty conditions and shall be capable of withstanding the rigors of rail, road and ocean shipment. One copy of installation and maintenance manual in English language shall be placed in each packing.

	iii. Kinematics viscosity at standard temperature	@30 Deg C @80 Deg C	
	iv. Fire point	Deg C	
	V. Pour point	Deg C	
	vi. Neutralization value	Mg KOH/G	
	vii. Dielectric strength	KV@2.5mm	
	viii. Dielectric constant at 80 Deg C		
	ix. Power factor % at 80 Deg C		
	x. Specific resistivity at 8-0 Deg C	OHM-CM	
	xi. Effect of dielectric fluids on physical and electric properties of polypropylene film as regards its dielectric strength resistivity, power factory, tensile strength and melting point		
23	Capacitor Tank		
	i. Material		
	ii. Painting description		
	iii. Lifting lugs arrangement (attach drawing)		
	iv. Supporting/hanging arrangements		
24	Whether internally fused or not		
24.a	Recommended fuse type and rating if applicable		
25	Internal pack arrangements		
	i. KVAR, voltage rating of individual pack		
	ii. No. of series pack		
	iii. No. or parallel pack		
	iv. Details of interconnection (attach diagram)		
26	Tin plated parallel groove clamp accommodates conductor of dia	Mm	
27	Capacitor offered have been in service for the period	Years	
28	Weight of capacitor	Kg	
29	Packing arrangements (attach sheet)		

3.12 APPROVAL;DRAWINGS

The manufacturers shall obtain approval of the Engineer in respect of all drawings/data mentioned in sub-clause 3.11.1 prior to mass production

4.0 CAPACITOR RACK ASSEMBLY

4.1 GENERAL

4.1.1 The mounting structure shall be extendable unit construction. Each unit shall accommodate 60 capacitors connected to one phase of the supply in ten series group each comprising 3 + 3 capacitor units in parallel for Y-Y banks.

4.1.2 The capacitor unit shall rest narrow side with bushings facing outwards on both sides with centre to centre distance of 250 mm

4.1.3 The stacking of capacitor and their inter connection shall in general conform to drawing No. PDW/TS-4521. The supplier may, however, propose suitable alternative design for approval.

- 4.1.4 The structure shall have provisions for connection with the supply system by means of aluminum conductor having 600 sq. mm cross section area.
- 4.1.5 The structure shall have rigid copper bus bar for each stack of capacitor units with provisions for fixing replaceable type fuse holders for each capacitor unit if the capacitor units are not internally fused.
- 4.1.6 The structure shall be bolted type and fabricated from mild steel using nuts and bolts of high tensile steel.,
- 4.1.7 All the steel parts shall be hot dip galvanized as per WAPDA Spec; No. P-82. The average and minimum weight of the zinc coating shall be 610 and 550 gr/sq.meter respectively.

4.2 STEEL PARTS

All parts of the bank structure shall be made of structural steel having chemical and mechanical characteristics mentioned below. The steel shall be made either by open hearth, basic oxygen or electric furnace process.

4.2.1 CHEMICAL COMPOSITION

4.2.1.1 The percentage by weight of the components other than iron shall be as under:

Elements	Composition percent	
	Mild Steel	High tensile steel;
Carbon	0.26	0/20
Manganese	0.85	1.35
Phosphorus (max)	0.04	0.04
Sulphur (max.)	0.05	0.05

- 4.2.1.2 The contractor may propose for approval of WAPDA structural; steel conforming to latest applicable industry standards, specifications and recommended practices provided the mechanical requirements indicated in clause 4.2.2 are met..

4.2.2 MECHANICAL CHARACTERISTICS

4.2.2.1 The steel used for the section and nuts and bolts shall meet the following requirements;

Property	Mild steel	High tensile steel
Tensile strength Kg/mm ²	40-56	50-80
Yield point minimum Kg/mm ²	26	35
Minimum elongation in 200 mm gauge length;		
a. Upto 8 mm thickness	16	15
b. Over 8 mm thickness	20	18
Bend test requirements (ratio of bend diameter to thickness of specimen)	1	2

4.2.3 CONSTRUCTIONAL REQUIREMENTS

4.2.3.1 The rack assembly shall be designed to bear the following loads without any vibration with a factor of safety of 2

- The weight of the structure including bus bar, insulators, fuse assemblies
- The weight of 60 Nos. 8280 V 400 KVAR, single phase capacitor

- c. A live load of 250 KG of working personnel
 - d. Wind loading of 150 Kg/mm²
 - e. Potential loading of 150 kg
 - f. Seismic acceleration of 0.2 g (Horizontal)
- 4.2.3.2 All bolts and nuts shall be hexagonal type made from high tensile steel and conform to WAPDA specifications No.P-19. The bolts shall have a flat washer under each nut. The minimum thickness of the washer shall be 1.5 mm more than the dia of the bolts and diagonal of the nut respectively. The quantity of all nuts, bolts and washers shall be 5% more than the actual requirements to compensate for the field losses.
- 4.2.3.3 The bolt holes shall be 1.5 mm to 2 mm larger than the normal bolt diameter and punches perpendicular to the member's surface. Holes shall be accurately located and well matched to ensure easy assembling at site.
- 4.2.3.4 The welding where required, shall be performed in accordance with the latest edition of the "Code for Arc and Gas welding in Building Construction" as formulated by the American Welding Society. A shield arc welding process shall be used. All welds shall be as shown on the drawing shall be made in such a manner that residual shrinkage stresses will be reduced to a minimum
- 4.2.3.5 All structure members shall be marked with the correct designation shown on the assembly drawings prepared by the manufacturers. Marking shall be done by stamping the members prior to galvanizing with the numbers of letters of 12 mm height and shall be clearly legible after galvanizing.
- 4.2.3.6 The manufacturers shall ensure reasonable accuracy in cutting the members and drilling/punching the holes to facilitate easy site assembling. All members carrying same mark shall be interchangeable for assembling. The cross sectional area or weight of the each structural size shape shall not vary more than 2.5% from the theoretical or specified amount. The permissible variations in dimensions for structure size steel shapes shall not exceed the limited prescribed by the ASTM A6
- 4.3 BUS BAR
- 4.3.1 Bare bus bars of section 100 X 10 mm shall be provided for line ends of the each capacitors stack. The material of the bus bars shall be 98% IACS Electrical conductivity copper.
- 4.3.2 The bus bars shall be rigidly supported on support insulators specified in clause 4.5
- 4.3.3 The strips carrying the fuse holders shall be bolted with the bus bars by means of tinned copper nuts and bolts. All the joining surfaces shall also be tinned in accordance with WAPDA Spec. P-84; 71
- 4.3.4 It shall be possible to extend the bus bars of one rack to connect the same with the bus bars of another rack for increasing the capacity of the bank;
- 4.3.5 Neutral ends of the capacitor shall be connected by means of tinned stranded copper conductor of 400 sq. mm cross section area.

- 4.3.6 The connections from one series group to another on same level shall; be from neutral to neutral end by means of 400 sq. mm copper conductor described in clause 4.3.. For connections between series groups at different level, the bus bars shall be inter connected by means of copper bus mentioned in clause 4.3.1. duly supported on insulators.

4.4 INSULATORS

- 4.4.1 The base insulators, stacking insulators and bus bar insulators used for the racks shall be made of superior surface of the insulators except the firing surface shall be smoothly glazed and shall be free of imperfection.

4.4.2 ELECTRICAL CHARACTERISTICS

The electrical characteristics of the insulators shall be as under;+6

Parameter	Base Insulator	Stacking Insulators	Bus Bar Insulator
Rated voltage	132 KV	36 KV	17.5 kV
Power frequency withstand voltage RMS	230 KV	70 KV	50 KV
Lightning Impulse withstand	550 KV	170 KV	125 KV

4.4.3 MECHANICAL CHARACTERISTICS

Parameter	Base Insulator	Stacking Insulators	Bus Bar Insulator
Creepage distance	3500 mm	1000 mm	500
<u>Cantilever Strength/Compression Strength/Torsional Strength</u>	To be worked out and proposed by the manufacturers for approval of WAPDA in view of loading conditions mentioned in clause 4.2.3.1. Complete design calculation shall be supplied.		

4.5 TESTS

Following tests shall be conducted on various components of the rack in accordance with the method/standard indicated against each;

4.5.1 STEEL PLATES

- 4.5.1.1 For sections and plates;
- Visual examination
 - Verification of dimensions
 - Assembly test
 - Tensile Test
 - Bend Test
 - Galvanizing test

- 4.5.1.2 For nuts and Bolts
- i. Verification of dimensions
 - ii. Visual examination
 - iii. Proof load test
 - iv. Ultimate tensile strength test
 - v. Galvanizing test
- 4.5.2 BUS BAR
- i. Verification of electrical conductivity
 - ii. Temperature rise at joints
- 4.5.3 FUSES AND FUSE HOLDER
- i. Breaking capacity test
 - ii. Verification of operation characteristics (Time current and I² T characteristics).
- 4.5.4 INSULATORS
- a. Electrical test
 - i. Power frequency voltage withstand test
 - ii. Lightning Impulse withstand
 - b. Mechanical test
 - i. Verification of dimensions and visual examination
 - ii. Verification of dimensions
 - iii. Test of cantilever, torsional and compression strength
- 4.5.5 SAMPLING AND TEST METHOD
- 4.5.5.1 Steel Parts
- 4.5.5.1.1 Assembly test
- One rack out of a lot of 50 racks shall be tested by picking various members from different parts of stacks at random
- 4.5.5.1.2 Tensile test
- Tensile test in accordance with the ISO-82 shall be made on every finished section for each lot of 500 racks. If a sample fails in the test, another batch of samples shall be taken and tested. The lot shall be rejected if a sample from second batch also fails.
- 4.5.5.1.3 Bend test
- One bend test specimen shall be taken from every finished section for each lot of 50 racks, The specimens shall be bent through 180 degree at temperature not exceeding -10 degree C. No failure should occur
- 4.5.5.1.4 Galvanizing test
- This test shall be carried out on all ferrous parts for following requirements;
- i. Weight of zinc coating
 - ii. Uniformity of zinc coating
 - iii. Adherence of zinc coating
 - iv. Embrittlement tests
- The sampling for these tests and method adopted shall be as indicated in WAPDA Specification P-82.
- 4.5.5.2 Nuts & Bolts
- Sampling and testing of nuts and bolts shall be carried out in accordance with the WAPDA Spec; P-19.

4.5.5.3 Bus Bars

4.5.5.3.1 Test for measurement of electricity conductivity

One bus bar and one stranded conductor sample from each lot of 50 racks shall be subjected to this test in accordance with IEC 28

4.5.5.3.2 Temperature rise at joints

One bus bar with attached, fuse assemblies carrying their rated currents shall be tested in an environment where air velocity does not exceed 0.5 m/s. The temperature rise at the joints shall be measured by a method as agreed by the manufacturers with WAPDA.

4.5.5.4 Fuses and fuse assemblies

a. External Fuses

Fuse and fuse assemblies shall meet the requirements of IEC 232 and IEC 549. Manufacturers test reports may be accepted in lieu of actual test.

b. Internal Fuses

Fuses shall be tested in accordance with IEC 593. Manufacturers test reports may be accepted in lieu of actual test.

4.5.5.5 Insulators

a. Electrical Test

Power frequency withstand test upon 1% insulators of each type shall be connected in accordance with IEC 273. All the samples should pass the tests

Certified test reports from an independent laboratory regarding lightning impulse withstand test shall be acceptable in lieu of actual test.

b. Mechanical tests

2 Insulators of each type with their metal fittings shall be tested to verify the torsional strength, cantilever strength and compression strength declared for the purpose of design calculations. All the sample must pass the test.

5. CURRENT TRANSFORMERS

Two types of current transformers shall be used, one for over current protection/metering and the other for unbalanced protection.

5.1 The current transformers for metering and over current protection shall have a transformation ratio of 800:400/1-1-1 Amp with two cores for metering and two for protection. Whereas the current transformers for unbalanced protection shall have 5/5 transformation ratio and meet the applicable requirements of the measuring CT.

5.2 The VA burden of protection core shall be 60 VA and measuring cores shall be 15 VA

5.3 The CTs shall meet all applicable requirements of type A CTs mentioned in WAPDA Specifications P-90 and shall be tested and accordingly.

5.4 Suitable bimetallic connectors' along with nuts and bolts for interconnection with other switchyard equipment by means of 600 sq. mm all aluminum conductor shall be provided with the equipment.

- 5.5 Supporting steel structure as per WAPDA specifications P-182 shall be provided along with the equipment.

6. POTENTIAL TRANSFORMERS

- 6.1 These transformers shall meet all the requirements of 145 KV class potential transformers contained in WAOPDA Spec No. P-129;85

- 6.2 Suitable bimetallic connectors' along with nuts and bolts for interconnection with other switchyard equipment by means of 600 sq. mm all aluminum conductor shall be provided with the equipment.

- 6.3 Supporting steel structure as per WAPDA specifications P-182 shall be provided along with the equipment

7. DISCONNECT SWITCH

- 7.1 The disconnection switches for use with these capacitors banks shall be either type A or B as per WAPDA Specifications P-128 as indicated in the bid documents.

- 7.2 Suitable bimetallic connectors' along with nuts and bolts for interconnection with other switchyard equipment by means of 600 sq. mm all aluminum conductor shall be provided with the equipment.

- 7.3 Supporting steel structure as per WAPDA specifications P-182 shall be provided along with the equipment

8. LIGHTNING ARRESTER

- 8.1 The lightning arresters shall meet all requirements for 132 KV system lightning arresters as per WAPDA Spec P-181

- 8.2 The lightning arresters shall be capable of handling the discharge energy of capacitor banks at rating up to 100 MVAR.

- 8.3 Suitable bimetallic connectors' along with nuts and bolts for interconnection with other switchyard equipment by means of 600 sq. mm all aluminum conductor shall be provided with the equipment.

- 8.4 Supporting steel structure as per WAPDA specifications P-182 shall be provided along with the equipment

9. CIRCUIT BREAKER

9.1 GENERAL

- 9.1.1 The circuit breaker shall be of the single pressure Sulphur hexafluoride (SF6) type with self-contained power operated spring, pneumatic or hydraulic operating mechanism.

- 9.1.2 The circuit breaker shall be three-pole outdoor type suitable for automatic tripping and complete with all necessary accessories to make a complete operating unit.

- 9.1.3 Every pole shall have an independent operating mechanism. Circuit breaker having single operating mechanism shall be acceptable if the provide means for adjusting the instant of closing the contact for synchronized closing in future,
- 9.1.4 Certain areas are subject to heavily polluted atmosphere and insulation of bushing for installation in such areas Shall have an extended Creepage distance from line to earth parts which shall not be less than the following
- Normal Creepage distance 2,400 mm
 - Extended Creepage distance 3,800 mm
 - Unless clearly indicated in the bid enquiry, equipment with normal Creepage distance shall be supplied.

9.1.5 The circuit breakers and their accessories shall be so designed as to comply with the ratings and to meet all test requirements laid down herein with respect to insulation strength, current carrying capacity, making and breaking currents and mechanical operations.

9.1.6 The circuit breaker shall be capable of breaking any current from zero to its rated current at any voltage up to the rated voltage in a capacitive circuit. The total break times at all currents less than the rated current shall not exceed the maximum breaking time. No re-strikes at the main contacts shall be permitted under any operating duty.

9.1.7 The circuit breaker shall be capable of making and breaking the circuit for any of the following combinations of the capacitor bank MVAR rating and short circuit MVA of the bus to which the same is connected.

MVAR OF CAPACITOR BANK	SHORT CIRCUIT MVA OF 132 KV CB
54	5000
72	5000
96	3200
54	3200
60	6300

9.1.8 The breaker shall be equipped with pre-insertion resistors of appropriate value to restrict the switching surge level to 2.5 per unit for any combination mentioned at 2 above. Necessary calculation shall be supplied.

9.1.9 No current transformers shall be built into the circuit breakers

9.1.10 The 132 KV circuit breaker shall be capable of out of phase interruption of current upto 25% of the rated short circuit braking current for the voltage across one phase of a value equal to two times the normal phase voltage.

9.2 RATINGS'

9.2.1 The standard ratings of the circuit breakers shall be as follows;

Description	Unit	Ratings
i. Nominal Voltage	KV	132
ii. Rated Voltage	KV	145
iii. Rated Insulation level		
a. Lightning Impulse withstand voltage	KV	650

- 9.6.1.1 The basic functional characteristics of the control scheme for the circuit breaker shall be such as to fulfill and comply with the essential control requirements for the intended application
- 9.6.1.2 The circuit breaker mechanism shall make one complete closing operation including automatic cut off of the closing power after an initiating control device has operated and the first device in the control scheme has responded, even though the contacts of the initiating control device are opened before the circuit breaker closing operation is completed.
- 9.6.1.3 Only one closing operation of the circuit breaker mechanism shall result from each closing operation of a manually operated initiating control device, even though the circuit breaker trip while the initiating control device is being held in the closed position.
- 9.6.1.4 The control scheme needs not provide against reclosure in the event that control power is removed by casual and entirely random occurrence, such as the opening of a control circuit to check for grounds, while the initiating control device remains closed.
- 9.6.1.5 When power is removed from the closing control circuit after or during an incomplete closing operation, all electrically operated devices in the control circuit shall reset to the normal circuit breaker open position, except for those devices which require a supply of control power in order to assume their normal circuit breaker open position.
- 9.6.1.6 When the circuit breaker is in the closed position, a closing operation of an initiating control device shall not result in an operation of the circuit breaker closing mechanism.
- 9.6.1.7 When a closing operation of a circuit breaker cannot be completed successfully because of the absence of an adequate supply of stored energy, all actuating devices in the control circuit shall remain in the normal circuit breaker open position when the initiating control device is operated.
- 9.6.1.8 When a tripping operation of a pneumatically operated PL70 circuit breaker cannot be completed successfully because of the absence of an adequate supply of air, all actuating devices in the control circuit shall remain in the normal circuit breaker closed position when the initiating control device is operated.
- 9.6.1.9 Two tripping coils shall be provided on separate individual cores and each shall be capable of tripping the breaker independently.
- 9.6.2 AUXILIARY CIRCUITS,
- 9.6.2.1 The auxiliaries, which shall be provided as part of each circuit breaker assembly, shall be as described herein.
- 9.6.2.2 Extra auxiliary switches, four normally open and four normally closed, in addition to those normally provided as part of the circuit breaker operation and indication functions shall be provided.
- 9.6.2.3 When heaters are supplied, a two-pole miniature circuit breaker are connected in the supply of the heater.

9.6.2.4 When individual compressor motors are used, a two-pole miniature circuit breaker shall be connected in the supply to the compressor motor.

9.6.2.5 When coils are connected continuously to one polarity, only that polarity shall be negative.

9.7 OPERATING MECHANISM

9.7.1 For circuit breakers, pneumatic, motor operated spring charged or hydraulic operating mechanism shall be provided;

9.7.2 COMMON REQUIREMENTS

9.7.2.1 The following general requirements shall be met by all types of operating mechanism

9.7.2.2 The rated control and auxiliary supply voltages shall be in accordance with clause 9.3

The breaker operating mechanism and all breaker accessories shall operate satisfactorily within the range of voltages given below;

Rated Voltage	Control Equipment	Power supply of operating mechanism	Tripping voltage
110 V DC	90-130	90-130	55-130
220 V DC	180-260	180-260	110-260
240 V AC		200-260	

The above requirements shall be met with at an ambient temperature of 50 deg C

9.7.2.3 The closing mechanism shall not prevent or delay the opening of the circuit breaker beyond the standard interrupting time and the energy shall be removed automatically from the closing mechanism when the closing operation is completed.

9.7.2.4 A conveniently located manual tripping device, protected against accidental operation shall be provided

9.7.2.5 Latches shall be so designed as not to require delicate or frequent adjustments.

9.7.2.6 The circuit breaker shall be designed and constructed to operate mechanically without replacement of parts due to breakage or excessive wear or adjustment for 1000 operation each consisting of a complete opening and closing of the circuit breaker.,

9.7.2.7 The closing mechanism shall be recharged automatically for further operation as soon as the circuit breaker has completed closing operation. If the closing mechanism is not fully recharged within a pre-determined time, the mechanism shall be locked out and an alarm initiated.

9.7.2.8 Each part of the mechanism shall be of substantial construction, utilizing such materials as stainless steel, brass, gun metal where necessary to prevent sticking due to rust or corrosion. The overall design shall be such as to reduce mechanical shock to a minimum and shall prevent inadvertent operation due to fault current stresses.

b. One minute power frequency withstand voltage	KV	275
iv. Rated frequency	Hz	50
v. Rated Normal current	Amp	2000
vi. Rated short circuit breaking current	KA	40
vii. Rated transient voltage (TRV) for terminal faults 1.5 FPC Factor)	KV	248
viii. Rated TRV peak for short line faults.	KV	166
ix. Rated short circuit making current	KA	100
x. Rated Duration of short circuit current*	Sec	One
xi. Rated operating sequence		0-0.3 Sec C0-3 min-CO
xii. Rated out of phase breaking current	KA	10
xiii. Rated asymmetrical breaking current	KA	48
xiv. Rated D.C. Voltage	VDC	110
xv. Total maximum break time for 0 to 100% of the rated breaking current	ms	80
xv. Rated single capacitor bank breaking current	Amp	1250
xvi. Rated capacitor bank inrush making current	KA	60

9.3 Control and Auxiliary voltage

- i) The rated control and auxiliary supply voltage shall have the following values
 - D.C. Voltage 110 V or 220 V
 - A.C. Voltage 240 V single phase or 440 Volts 3 phase
- ii) The rated voltages are applicable to trip coils operating mechanism, hooters and all other low voltage circuits in the circuit breakers and its accessories.

9.4 GENERAL PERFORMANCE REQUIREMENTS

9.4.1 The Power carrying circuits shall be capable of carrying its rated current at rated frequency continuously without excessive maintenance, The terminals and the connections between parts shall be designed to ensure permanently low resistance contacts.

- i. The temperature rise of the main circuit of circuit breakers shall not exceed the values given in Table-V of IEC Publication -694 (1980) when measured in accordance with clause 6.3.3 of IEC 694.
- ii. The maximum temperature of the auxiliary circuits and devices, when the circuit breaker is carrying rated currents and voltages and when tested in accordance with clause 6.3.5 of IEC Publication 694 (1980) shall not exceed the values given in Table V of IEC Publication 694(1980). The reference temperature shall be taken as 50 deg C.

9.4.2 The arc interrupting mechanism shall be designed with ample mechanical and electrical factors of safety in all of its parts. These parts shall consist of a minimum number of assemblies arranged for convenient installation and readily removable for repair/servicing or inspection.

9.4.3 The insulation of the braking contacts and associated resistors, capacitors, if used in shunting the primary arcing contacts of the breaker, shall not be damaged when these voltages are applied across the breaker and the associated shunting devices while all contacts are open.

- 9.4.4 All adjustable parts of circuit breakers shall be readily accessible with the circuit breakers installed for service.
- 9.4.5 Circuit Breaker shall be so constructed that the interval between the instants when the contacts of the individual poles touch or separate shall not exceed 10 ms during a closing or opening operation
- 9.4.6 It shall be possible to make independent adjustment to each pole. In the vent of any pole failing to complete a closing operation, provisions shall be made for automatic tripping of the circuit breaker.
- 9.4.7 To facilitate transport, lifting lugs, jacking pads or other handling devices, capable of supporting each unit when fully erected and ready for service, shall be provided.
- 9.4.8 Each circuit breaker shall be equipped with two earthing terminals capable of accommodating bare stranded copper earthing conductor of 95 sq. mm cross section. The terminals shall be capable of carrying the rated short time current of the breaker and shall be distinctly marked.
- 9.4.9 Provision shall be made in the design of breakers to ensure that the proper operation of circuit breakers and accessories is not impaired by vermin, insects, small animals and birds etc.
- 9.4.10 Bolts or nuts, which must be loosened or removed when maintaining circuit breaker, shall be easily accessible with the proper tools and they shall be adequately protected from rusting and corrosion.
- 9.4.11 All exposed surfaces of frames, tanks, operating mechanism etc., which would normally be painted when in service, shall be given one rust protective coat of paint and at least one coat of a synthetic resin having excellent weather resistant properties. The total paint thickness shall not be less than 0.06 mm. All exposed parts of circuit breakers shall be weather proof.
- 9.5 LOCAL AND REMOTE CONTROLS AND INDICATIONS
- 9.5.1 Circuit breakers shall be suitable for operation by electrical means either from the local operating cubicle or remotely from the power control board or desk in the control room.
- 9.5.2 A hand operated lockable switch shall be provided in each operating cubicle for operation of circuit breaker.
- 9.5.3 A multiple, hand operated lockable changeover switch labeled "Remote" and "Local" be provided in each operating cubicle for establishing the point of control.
- 9.5.4 A reliable, easily readable, mechanically operated indicator shall be provided on each circuit breaker to show the position of the circuit breaker.
- 9.5.5 The marking of indicated plates shall be "ON" and "OFF".
- 9.6 ELECTRICAL CONTROL FEATURES
- 9.6.1 FUNCTIONAL REQUIREMENTS;

A convenient means for applying lubricant shall be provided where required.

- 9.7.2.9 All permanently fixed bolts, nuts and studs shall be securely locked in place to prevent loosening during operation. Blind tapped holes shall be avoided where practicable
- 9.7.2.10 A variation in the operating mechanism for opening and closing in view of the latest developments shall be acceptable although not mentioned while discussing different mechanism.
- 9.7.2.11 The auxiliary switch shall be mechanically coupled with the breaker mechanical operating arrangements.
- 9.7.3 **SSPRING CHARGED MECHANISM**
- 9.7.3.1 The requirements for spring operated mechanism; in addition to the requirement specified in clause 8.2 shall be as under.
- 9.7.3.2 The breaker shall be closed by the stored energy of charged spring
- 9.7.3.3 The charging motor shall be direct current. The motor shall not require more than 15 seconds to recharge the closing springs after a close-open operation.
- 9.7.3.4 Means shall be provided to prevent operation of the mechanism when maintenance work is being done.
- 9.7.3.5 An indicator shall be provided to show charged/uncharged state of the spring. operating mechanism shall be motor operated spring charged and meet the following requirements;

9.7.4 **PNEUMATIC MECHANISM, NOT APPLICABLE**

9.7.5 **HYDRAULIC MECHANISM NOT APPLICABLE**

9.8 **OPERATING CUBICLES**

- 9.8.1 Circuit breaker operating mechanism, auxiliary wiring switches and associated relays, control switches, control cable terminations and other ancillary equipment shall be accommodated in vermin proof, dust proof, and weather proof preferably freestanding cubicles with front and rear access.
- 9.8.2 Cubicle shall be made of galvanized steel sheet of 3 mm minimum thickness and shall be of rigid construction and shall include any supporting steel work necessary for mounting on the circuit breaker or on concrete foundation. Access to all compartments shall be provided by either removable panels or doors with lift off hinges. Bolts or carriage keys shall not be used to secure the panels or doors. All fastenings shall be integral with the panel or door and provisions shall be made for locking.
- 9.8.3 Cubicle shall be well ventilated through vermin proof louvers comprising a brass gauge screen attached to a frame and secured to the inside of the cubicle. Division between compartments within the cubicle shall be perforated to assist air circulation. In addition an

anti-condensation heater of 240 V AC shall be provided and controlled a thermostat and a single pole switch mounted within the cubicle.

- 9.8.4 Access doors of panels shall be glassed where necessary to enable instruments to be viewed without opening the cubicle. Arrangements of equipment within the cubicle shall be such that access for maintenance or removal of any items shall be possible with the minimum disturbance. Suitable door gaskets made of rubber shall be provided to prevent ingress of moisture etc.
- 9.8.5 Circuit breaker cubicles shall be provided with a 240 V 5A single phase three pin socket outlet of outdoor water proof pattern and fuses for this circuit shall be mounted within the cubicle.
- 9.8.6 An approved schematic diagram of the part of the control system local to the circuit breaker, identifying the various components within the cubicle and on the circuit breaker and referring to the appropriate drawings and erection instruction shall be affixed to the inside of the cubicle access door. The diagram shall be marked on durable non-fading material suitable for the specified climatic conditions.
- 9.8.7 All incoming auxiliary supply cables shall be terminated directly into switch fuse isolators without intermediate terminals and provisions shall be made for looping these supplies into similar cubicles in the switchyard.
- 9.8.8 In case, the cubicles are mounted separately on concrete foundations, the same shall be equipped with one earthing terminal for accommodating earth conductor of 95 sq. mm.
- 9.8.9 **WIRING**
- 9.8.9.1 The wiring shall be such that individual components of the applicable control circuits of closing power devices, closing control devices and tripping devices shall be electrically grouped and terminated in physically separate groups.
- 9.8.9.2 The terminals of the control circuit components specified in clause 9.10.9.1 and the heater circuits and the individual compressor or spring charge motor circuits shall be readily accessible, closely grouped and conveniently arranged for making connections between control circuits grouped and for external wiring.
- 9.8.9.3 Wiring between devices and terminals blocks shall be carried in troughs or in neatly formed packs, which shall be tied or otherwise secured at appropriate intervals to prevent undue stress on equipment or connections. Connections across portions that are hinged or otherwise movable shall be made with flexible wire, formed to distribute the bending motion. No connections shall be made with wire small than 2.5 sq. mm. Ends of each wire shall be identified by a closed ring type ferrule or plastic label having weather resistant properties securely attached to the wire with no possibility of detachment under normal handling. Stacking of more than two wires on terminal will not be permitted.
- 9.8.9.4 The ferrules for closing circuits shall be of colour preferably green and marked "close" The ferrules on all wiring directly connected to the circuit breaker trip coils, tripping switches, etc shall be of a colour preferably red, different from that of the remained and marked "Trip".

- 9.8.9.5 No wires shall be tied or jointed between terminals points. Electrical wiring and instruments shall be so located that leakage of oil or water cannot affect the, Bus wiring between control panels etc. shall be fully insulated and completely segregated from the main panel.
- 9.8.9.6 All metallic cases of instruments, control switches, relays etc. mounted on control panels or in cubicles shall be provided with an accessible copper tail to facilitate connections by means of bare copper conductors of not less than 2.5 sq. mm section to the nearest earth bar.
- 9.8.9.7 Door switch controlled lights shall be provided with the cubicle
- 9.8.9.8 All the auxiliary relays, gauges and terminals blocks shall be so located as to permit easy access and ample room for repair/ replacement of the components and every component shall have its location No. properly labeled as per schematic diagram.

9.8.10 **TERMINAL BLOCK**

Terminal blocks shall be mounted at an easily accessible position approximately 30 cm from the base and shall be equipped with barriers, terminal strips and colour coded strips. The AC, DC and current and potential transformer circuits shall be physically segregated in groups. The AC 415/240 Volts circuit terminals will be fitted with non-flammable transparent plastic covers to prevent accidental contact with live parts. Each incoming and out going conductor shall be connected to an individual terminal. Each terminal block shall have an individual marking strip which shall be machine lettered or engraved with the circuit designation of the terminals which shall also be shown on the wiring diagram. ONE spare marking strip shall be provided for each terminal block. Approximately 25 percent extra terminals shall be provided for each block for terminating spare conductors and for future changes. In case of hinged panels matching terminals blocks shall be provided on both sides of the hinged section. To avoid accidental touch with live parts, all terminal block shall be provided with transparent plastic cover.

9.9 **NAME PLATE DATA**

- 9.9.1 A stainless steel name plate shall be provided in accordance with clause 5.9 of IEC 56 (1987) and shall include the following data:
 - a) Manufacturer's name, trade mark and address
 - b) Manufacturer's type designation and serial number
 - c) Year of manufacture
 - d) Standard to which manufactured
 - e) Rated voltage, KV
 - f) Rated Frequency, Hz
 - g) Rated normal current, A
 - h) Rated impulse withstand voltage, KV
 - i) Rated symmetrical breaking capacity KA
 - j) Rated asymmetrical breaking capacity KA
 - k) Rated short time current (1 sec) KA
 - l) Making capacity, KA
 - m) Rated operating duty
 - n) Total break time at rated breaking current in (ms) cycles
 - o) Rated single capacitor bank breaking current KA
 - p) Rated capacitive inrush making current KA
 - q) Rated out of phase breaking current, KA

- r) Rated restriking voltage:
 - I) Amplitude factor
 - II) Rate of rise, volts per micro sec.
 - III) First pole to clear factor
- s) Control and switching voltage AC/DC
- t) Weight per pole, kg
- u) Operating air pressure range
- v) Volume and weight of SF6 Gas per pole litre/kg

9.10 TESTS

9.10.1 All routine and type tests shall be performed in accordance with IEC Publication 56 (1987)

9.10.2 The following routine tests shall be made on all circuit breakers supplied under this specifications

- a. Power frequency voltage withstand dry tests on the main circuit breaker
- b. Tests on control and auxiliary circuits
- c. Tests for the measurement of the resistance of the main circuit

9.10.3 TYPE TEST

9.10.3.1 IDENTIFICATION OF CIRCUIT BREAKER FOR TYPE TEST

The type test report shall incorporate design information and details sufficient to identify the design of the tested circuit breaker with that of other circuit breakers proposed to be of the same design and construction. Such information shall include, but is not restricted to the following;

- i) Drawing of circuit breaker general assembly,
- ii) cross section of the breaker through the axis of arcing contacts
- iii) Details of arc control devices, contacts and operating and coupling mechanism of the breaker.
- iv) Information about the materials used.
- v) The outline and other important dimensions such as the travel of moving contacts etc.
- vi) The Details of mounting, fixing and insulators
- vii) The working details of operating mechanism such as the ampere turns, voltage, cross section of plungers and pole pieces for operating coils.

9.10.4 The following type tests shall be made on one representative circuit breaker out of the circuit breakers of the same design, which shall be supplied to prove their characteristics. However, duly certificate and complete test reports for tests carried out by an independent authority on similar circuit breaker shall be acceptable in lieu of actual test:

- a. Operation tests and mechanical endurance tests
- b. Temperature rise test
- c. Dielectric tests
- d. Making capacity and breaking capacity tests
- e. Short line fault tests
- f. Out of phase making and breaking tests
- g. Short-time current
- h. Line charging current breaking tests
- i. Cable charging current breaking tests
- j. Capacitor bank breaking tests

- k. small inductive breaking tests

9.11

CIRCUIT BREAKER SUPPORTING STRUCTURE

Each circuit breaker shall be supplied with steel supporting structure along with its foundation drawings and data such as dynamic forces, static forces, impact loading and terminal load of circuit breaker. The foundation drawing shall be designed using the soil bearing capacity of 1 kg/sq. cm and 0.5 kg/sq.cm. for seismic and non-seismic zones respectively, taking horizontal acceleration of 0.2 G for seismic zones. Design calculations and guidelines shall also be supplied. Supporting steel structure for circuit breaker shall be supplied as per drawing No. PDW/TS-3198. The supporting steel structure shall be manufactured in accordance with WAPDA Spec No. P-182: 9

9.12

TERMINAL HEADS

Provisions for four Nos. suitable size, two terminal head shall be provided so that the breaker can be connected in any configuration to other allied equipment viz; Disconnectors, current transformers etc. by means of 600 mm sq. all aluminum conductor for which the suitable (bimetallic, if necessary) connectors and nuts and bolts shall also be provided.

9.13

DRAWINGS AND DESCRIPTIVE DATA

9.13.1

TENDER DRAWINGS AND DATA

9.13.1.1

The following drawings, information and descriptive data shall be supplied with the bid. As far as possible the information shall be supplied on schedule of technical data attached hereto;

- i) The requisite information shall be supplied with the bid in accordance with IEC Publication 56 (1987) and in the manner and form given therein. Complete type test reports as required in IEC publication 56 (1987) be included.
- ii) Outline drawings, photographs, descriptive sheets and sketches to describe clearly the construction and operation of the circuit breaker.
- iii) Rate of rise of system transient recovery voltage that the tenderers will guarantee the circuit breaker shall withstand after interrupting full breaking capacity and at one half of the breaking capacity.
- iv) The details of the minor and the general maintenance requirements for servicing and replacement of the contact and the requirements of maintenance on the number of switching operations at;
 - a) Full short circuit capacity (100%)
 - b) Half short circuit capacity (50%)
 - c) Quarter short circuit capacity (25%)
 - d) Normal rated current capacity.
- v) The chart or the curve and the procedure for showing the breaker rating factors for evaluating the breaking capacity on various auto-reclosing duty cycles of the offered circuit breakers.
- vi) List of contracts placed and deliveries made for the circuit breaker offered against this tender should be supplied. The list should indicate quantity, the year when the deliveries were made and the agency giving full address to whom the supplies were made.
- vii) The minimum electrical clearance between stationary and moving conducting parts when the circuit breaker is in the normal open position.

- viii) The minimum phase spacing
- ix) External creepage distance phase to ground
- x) Full description of any device incorporated in the circuit breaker to limit or control the rate of rise of restriking voltage across the circuit breaker contacts or alternatively a confirmation to the contrary.
- xi) The details of the operating mechanism, literature and catalogues data showing full details of the opening and closing sequence of the mechanism under all conditions.
- xii) Confirmation that the manufacturers are the original designer of the circuit breaker or alternatively details of the license under which manufactured including from whom and when obtained for that period and a certificate to this effect.
- xiii) Full description of the device used for control documentation regarding its performance including oscillograms etc.
- xiv) All applicable data shall be provided on the Schedule of Technical Data attached with this specifications.

9.13.2 **APPROVAL DRAWINGS AND DATA**

- a. Approval drawings shall show the detailed physical arrangements of the breaker, high voltage connections and wiring and schematic diagram of the control scheme.
- b. Also provided shall be the installation, erection, maintenance and operation instructions book. These instructions to be written in accordance with IEC 56-1987
- c. Impact loading of circuit breaker during the opening and closing operation

9.14 **PACKING**

The packing shall be suitable for transportation of circuit breaker by rail, road, and ship as well as for long storage. In every package of equipment for shipment one no installation, erection, maintenance and operating instruction books enclosed in a weather proof material shall be provided.

10 **CONTROL AND PROTECTION EQUIPMENT**

10.1 **GENERAL REQUIREMENTS OF CONTROL AND PROTECTION**

- 10.1.1 The control and protection scheme shall be generally in accordance with drawing No. PDW/TS-4649
- 10.1.2 The control scheme shall facilitate following modes of switching operation of the 132 KV circuit breaker controlling the capacitor banks
 - i. Manual operation from local control
 - ii. Automatic operation through over voltage and under voltage relay
 - iii. Manual operation from national Power Control centre at Islamabad through PLC system.
- 10.1.3 The relay panels shall have necessary equipment for the following protection:
 - a. Over current and earth fault protection
 - b. Unbalance protection and by sensing neutral current by means of current transformers mentioned in clause 5 of this specifications for ungrounded Y-Y banks
 - c. Over voltage protection

- 10.1.4 It shall be possible to connect the capacitor bank to either of two 132 KV bus bars through the isolator. The control scheme shall provide necessary interlocking of two isolators and the circuit breakers, so that any of two isolators shall neither open nor close if the circuit breaker is closed.
- 10.1.5 The capacitor control and relay panel shall be self-contained, self-supported units constructed in accordance with the WAPDA Specifications No. P-152;81.
- 10.1.6 The panels shall be supplied completely wired with control, metering, indicating annunciation, testing and auxiliary equipment with associated inter connection and accessories required for the operation control of the capacitor banks.
- 10.1.7 The location of various instruments, switches, semaphores, annunciator and mimic on the control panel shall be generally in accordance with drawing No. PDW/TS-4525.
- 10.1.8 The terminal block assembly shall be mounted on the inner side of the panels at an angle of 45 degree to the horizontal towards the door to facilitate working.
- 10.1.9 The out line dimensions of the panel shall be 600 mm X 600 mm X 2,200 mm
- 10.1.10 The incoming DC and AC supplies shall be connected to the terminal blocks of the panels and further distributed through miniature circuit breakers.
- 10.1.11 The control scheme shall have circuitries for monitoring the status of all protective components i.e. relays, trip coils, DC Supply and associated indicating lamps, supervision relays, DC Sirens, auxiliary relays and components as applicable both for alarm and trip functions. The healthy status of these circuitries shall be supervised continuously by means of supervision relays and indicated by continuous glow of neon indicating lamps (DC operated) which shall extinguish when the associated supply circuit fails. In addition the failure of any circuit shall initiate audible alarm and cause visual indication from A.C. supply,
- 10.1.12 The illumination of control and relays panels shall be by means of A.C. operated incandescent lamps controlled by door type switch.
- 10.1.13 All the devices employed in the control and relay panels shall operate satisfactorily with in the following range of auxiliary supply A.C./D.C voltages as applications;

Sr.No.	Item	Voltage Range		
		220 V D.C	110 V D.C	240 V A.C
1	Control alarm, annunciator relays and supervision relays	180-260 V	90-30 V	200-260 V
2	Tripping relays and associated auxiliary relays	110-260	55-130 V	-
3	Illumination lamps	-	-	-
4	Indicating lamps	220-260 V	110-130 V	-

10.2 PRINCIPAL EQUIPMENT

- 10.2.1 The following equipment and any other items required shall be provided on the control panels;

Sr. No.	Description of item	Quantity
1	Ammeter, 5A 50- HZ with removable scale 0-440 Amps and 0-800 Amps	3 Nos.
2	Volt meter, 110 V 50 Hz 0-1509 KV scale with 7 position selected switch	1 No.
3	Ammeter 5A, 50 Hz with 0-5 Amps (For Y-Y banks)	1 No.
4	MVAR meter 1 A, 110 V 50 Hz with scale 0-100 MVAR	1 No.
5	Supervision relays for D.C. Supply supervisions with 2 N.O and 2 N.C contacts (VAX 12)	2 Nos.
6	Supervisions lamps, neon type 150 V 5 W	3 Nos.
7	D.C. MCBS 110 V 10 Amps	3 Nos.
8	A.C. MCBs 230 V 50 Hz 10 Amps	1 No.
9	Control switch discrepancy type 110 with lamp and accessories	1 No.
10	Semaphore indicator 110 V D.C	4 Nos.
11	Flicker relay for control switch	1 No.
12	Annunciator complete with auxiliary relay	1 No.
13	Annunciator complete with auxiliary relays, indicating lamps and accessories for circuit breaker trip function	1 No.
14	Annunciator D.C. supply supervision	1 No.
15	Annunciators for status of capacitor banks	1 No.
16	D.C. Sirens 110 V	1 No.
17	D.C. Hooter 110 V	1 No.
18	A,C Bell 230 Volts 50 Hz	1 NO.
19	Terminal block with accessories for C.T. connection	40 Nos.
20	Terminal blocks with accessories for P.T. and other connections	200 Nos.
21	Instrument fuses	4 Nos.
22	Mimic bus	1 No.
23	Cable glands suitable for; a. 4 x 2.5 mm ² control cable b. 8 x 2.5 mm ² control cable c. 4 X 6 mm ² control cable d. 16 X 2.5 mm ² cell	6 Nos.
24	Auto/manual selector switch	1 No.

- 10.2.2 The principal equipment for relay panel is listed hereunder but not restricted to the items contained herein;

Sr. No.	Description of item	Quantity
1	Four element definite time over current relay plus inverse time earth fault relays for use with 1 Amp. Secondary current CTS	1 No.
2	Tripping relays 110 V DC with 6 N.O. and 2 N.C contacts	3 Nos.
3	Supervision relay set for control and protection D.C. supply and breaker trip circuit supervision 110 V DC	1 No.
4	Over-voltage, under voltage relays with timers for automatic	1 No.

	switching of capacitor bank 110 V D.C.	
5	Over current relays for unbalance protection of the capacitor bank 110 V D.C.	1 set
6	Terminal blocks with accessories for C.T. connections	40 Nos.
7	Terminal blocks with accessories for P.T. and other connections minimum.	80 Nos.
8	Cable glands suitable for; a. 4 x 2.5 mm ² control cable b. 8 x 2.5 mm ² control cable c. 4 X 6 mm ² control cable d. 16 X 2.5 mm ² cell	12 Nos.

10.3 All the relays, instruments, switches and auxiliary devices employed in the control and relay panels shall meet the requirements laid down in WAPDA Specifications No. P-151; 81 and as mentioned herein.

10.4 All the protective relays must have at least 2 years satisfactory operational a reputed utility to the satisfaction of the engineers.

10.5 OVER CURRENT/EARTH FAULT RELAYS

10.5.1 The over current/earth fault protection shall be non-directional and shall consist of three over current relays for phase faults and one over current relays for earth faults. Instantaneous element shall also be provided with each relays.

10.5.2 The phase over current relay shall be definite time with a variable time lag independent of current. And earth fault relay shall hgave definite minimum inverse time characteristics.

10.5.3 The over current and earth fault relays shall have current settings variable in seven equal steps or shall e continuously adjustable.

10.5.4 The phase over current relays shall have a current setting range from 0.5 to 2 amperes in seven equal steps and time setting range from 0.6 to 5seconds continuous.

10.5.5 The earth fault element shall have a current setting range of 0.2 to 0.8 ampere in seven equal steps and time dial setting of 10 to 100 percent.

10.5.6 The instantaneous element shall have a setting range of 3 to 6 ampere continuously adjustable and infinity setting.

10.5.7 The characteristics shall be within the following range;

Operating current Multiple of setting	Operating time 100 percent setting (seconds)
3	2.6 to 3.0
5	1.7 to 2.0
10	1.2 to 1.5
20	0.8 to 1.25

10.5.8 The operating time of instantaneous element shall not exceed 50 ms at current greater than two time the setting.

10.5.9 Shunt reinforcing units with electrically operated indicators shall be provided for each inverse time element.

10.5.10 The VA burden of inverse time element shall not exceed 4.0 VA

10.6 UNBALANCED PROTECTION

10.6.1 GENERAL

- 10.6.1.1 The unbalance protection will be operated by sensing the current between neutrals of Y sections.
- 10.6.1.2 Relays shall be provided to detect at least two stages of unbalance in the capacitor bank./ The first stage unbalance detections shall initiate an audible alarm and visual indication on the appropriate annunciator in the control panel. The second stage unbalance detection shall cause tripping of the circuit breaker along with applicable visual and audible indications and lockout action of under voltage relay in the automatic voltage control mode.
- 10.6.1.3 The equipment shall have provision for compensation for inherent unbalance due to difference in capacitance within the bank or in system voltage itself. For reference A.C. supply from 132/110 V P.T and 800-400/1 CTs shall be available.
- 10.6.1.4 The relays shall have definite time characteristics and shall have independent input voltage/current and time settings for each stage of unbalance.

10.6.2 Characteristics and operation requirements

- 10.6.2.1 The characteristics of over current relays for unbalanced protection of Y-Y banks shall be as under.
- Input AC current rating' 1 Amp
 - Settings; 0.1 to 100 % of rating adjustable continuously in steps of 5%
 - D.C> supply auxiliary 110 V DC
 - A.C. Supply auxiliary (if required) 240 V A.C
 - Power frequency withstand voltage between terminal and case ; 2 KV

10.7 VOLTAGE AND TIME SENSITIVE CONTROL EQUIPMENT

- 10.7.1 The purpose of voltage and time sensitive control is to provide the capacitors protection against over voltage and facilitate automatic switching OFF of the capacitor bank when the 132 kV bus voltage exceeds a predetermined value for a present time interval. Similarly the under voltage component of the said control system is meant for switching ON of the capacitor bank when the 1342 KV bus voltage fall below a preset value for preset time interval
- 10.7.2 The voltage and time sensitive automatic capacitor switching control shall be flush mounted, suitable for fitting on front of the Relay panel
- 10.7.3 An auto manual selector switch shall be provided on the control panel. When the selector switch is at Auto position, the over-voltage /under voltage time control shall be operative and when the selector switch is at manual position, the over voltage /under voltage time control shall not functions.
- 10.7.4 The reference A.C supply shall be from 132KV/110 V system voltage transformers.
- 10.7.5 The auxiliary supply shall be 240 V A.C and 110 V D.C as applicable.
- 10.7.6 The ratings and characteristics shall be as under;

OVER VOLTAGE COMPONENT	
DATUM VOLTAGE	100-125 A.C. 50 HZ. CONTINUOUSLY ADJUSTABLE
TIME SETTING	0-20 SECONDCS CONTINUOUSLY ADJUSTABLE
UNDER VOLTAGE COMPONENTS	
DATUM VOLTAGE	90-120 A.C. 50 HZ. CONTINUOUSLY ADJUSTABLE
TIME SETTING	0-500 SECONDCS CONTINUOUSLY ADJUSTABLE

- 10.7.7 The accuracy of the equipment shall be within 2% of the dial setting for voltage as well as time.
- 10.7.8 Provisions shall be made for manual locking out of under voltage element while the selector switch is at Auto position. Besides, the under voltage element shall also be locked out when the circuit breaker is tripped by over current/earth fault or unbalanced protection relays.

10.8 ANNUNCIATORS

10.8.1 CAPACITOR BANK UNBALANCE ANNUNCIATORS

The following stages of unbalance in the capacitor bank shall be indicated by means self inscription mentioned against each.

- i) 1st stage unbalance ; STAGE 1 UNB
- ii) 2nd Stage unbalance ; STAGE 2 UNB

10.8.2 SUPERVISION ALARM ANNUNCIATOR

The following events shall be indicated by the inscription mentioned against each;

WINDOW	FUNCTION	INSCRIPTION
1	Position indicating and interlocking supply alarm	PDS AND SUPPLY
2	Alarm/Annunciator supply fail alarm	ALARM SUPPLY
3	Control, Protection and breaker trip coil supply fail alarm for trip coil No.1	PROT, SUPPLY HV-1
4	Breaker trip coil supply fail alarm for trip coil No.2	HV-2
5	Spare	
6	Spare	

10.8.3 CIRCUIT BREAKER TRIP ANNUNCIATOR

The inscription for indicating unit for circuit breaker trip functions shall be as funder;

- i. Over current earth fault relay trip ; O/C-E/F TRIP
- ii. Over Voltage relay trip O/V TRIP
- iii. Unbalance relay trip UNBALANCE TRIP
- iv. System P.Y. Supply failed SYS PT FAIL
- v. Circuit Breaker tripped C.B TRIP
- vi. Spare

10.8.4 CIRCUIT BREAKER ALARM AND ANNUNCIATOR

The inscription for the indicating unit for circuit breaker alarm functions shall be as follows;

WINDOW	FUNCTION	INSCRIPTION
1	A.C. Supply failure alarm	A.C. FAIL
2	SF6 pressure low alarm	SF6 LOW
3	Circuit breaker mechanism failure alarm	CBMECH FAIL
4	Circuit breaker spring uncharged alarm	SPRING UNCHAR
5	Circuit Breaker lockout alarm on	SF6 TRIP LOCKOUT

	SF6 low pressure	
6	Circuit Breaker motor supply failure alarm	MOTOR SUPPLY/FAIL
7	Spare	
8	Spare	

10.9 TESTS

All relays and instruments shall be tested and accepted in accordance with WAPDA Specifications P-151'81 clause 14

10.10 DRAWINGS/DATA

Relevant bid drawings/data and approval drawings /data shall be submitted as per WAPDA specifications P;151;81 clause 16, 17, and respectively.

10.11 SPARE PARTS

All applicable spare parts shall be provided as per WAPDA specifications P;151;81 clause 15.

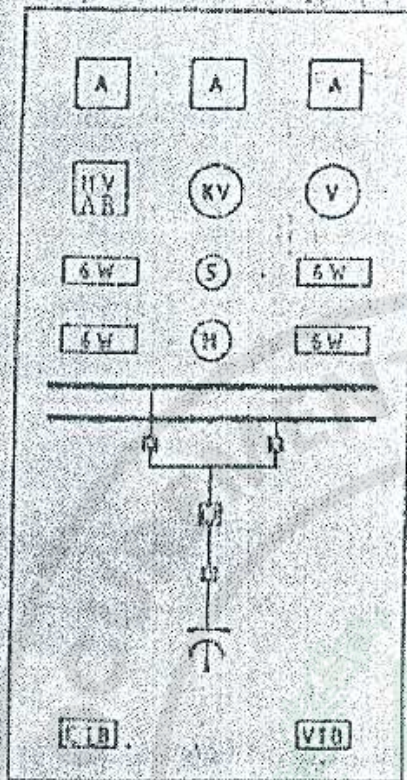
11 ENCLOSURES

The following drawings are attached herewith;

- General lay out drawings of capacitor Bank No.PDW/TS-4521
- Location of instruments on control panel Drawing No. PDW/TS-4525
- Schematic diagram of capacitor bank (Y-Y connected) PDW/TS-4650
- Single line diagram of capacitor Bank Y-Y connected PDW/TS-4649

LEGEND

- A AMMETER
- KV SYSTEM VOLT METER
- V NEUTRAL TO GROUND VOLT METER
- S SELECTOR SWITCH FOR KV METER
- IS ISOLATOR CONTROL SWITCH
- CS C.D. CONTROL SWITCH
- CD CAPACITOR BANK
- CTB CURRENT TEST BLOCK
- VTB VOLTAGE TEST BLOCK
- H AUTO/MANUAL SELECTOR SWITCH
- AW ANNUNCIATORS

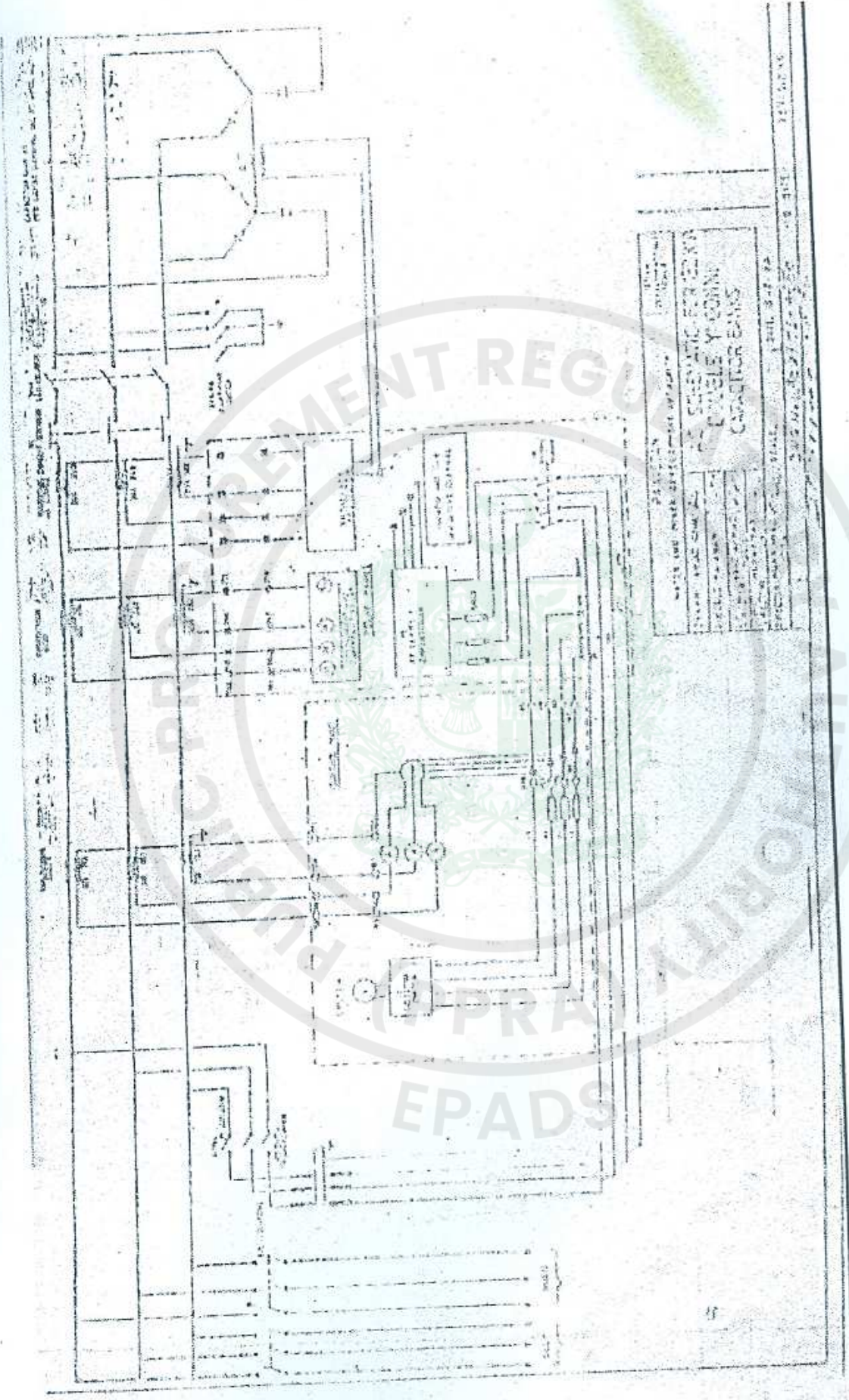


NOTE:

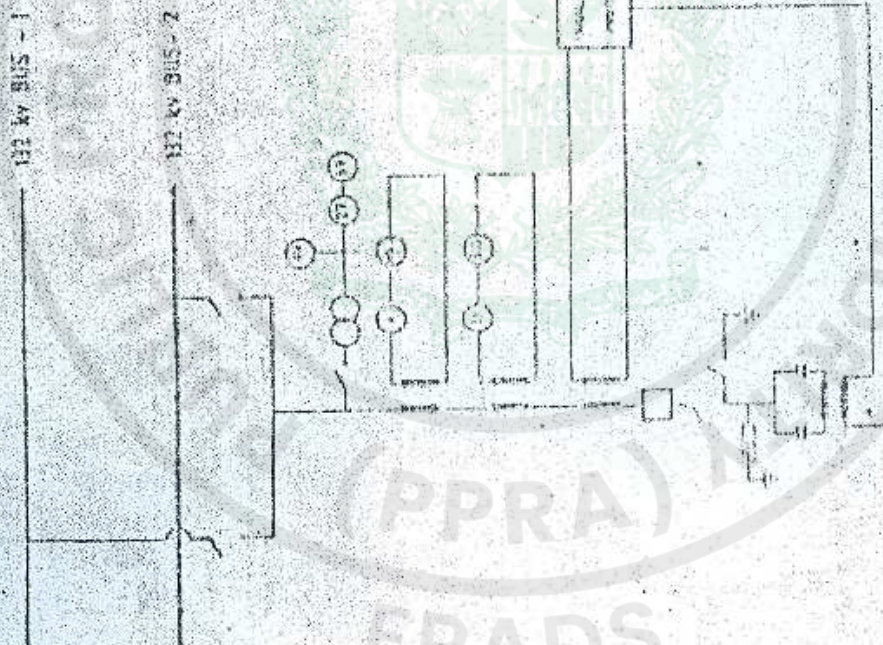
1. IN CASE OF CURRENT SENSITIVE UNBALANCE PROTECTION THE VOLT METER FOR INDICATING NEUTRAL TO GROUND VOLTAGE WILL BE REPLACED BY AN AMMETER INDICATING CURRENT THROUGH NEUTRAL E.T.

1	5.3.91	NOTE 1. ADDED	
S.N.	DATE	REVISIONS	BY

PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY			DESIGN DEPARTMENT IT & GI POWER
DRAWN BY	SILAHU DADAR		CONTROL PANEL FOR 132 K.V. CAPACITOR BANK
CHECKED BY	M.A. KHAN		
APPROVED BY	SAD AHMAD		
	HAJIM		
	HAJIM		
	HAJIM		
		SCALE - N.T.S	DATE - 15.7.93
		DWG No.	4525



PARTS LIST	
Q1	7805
Q2	LM7805
Q3	1N4001
Q4	100µF
Q5	10µF
Q6	10K
Q7	100K
Q8	1M
Q9	100µF
Q10	10µF
Q11	10K
Q12	100K
Q13	1M
Q14	100µF
Q15	10µF
Q16	10K
Q17	100K
Q18	1M
Q19	100µF
Q20	10µF
Q21	10K
Q22	100K
Q23	1M
Q24	100µF
Q25	10µF
Q26	10K
Q27	100K
Q28	1M
Q29	100µF
Q30	10µF
Q31	10K
Q32	100K
Q33	1M
Q34	100µF
Q35	10µF
Q36	10K
Q37	100K
Q38	1M
Q39	100µF
Q40	10µF
Q41	10K
Q42	100K
Q43	1M
Q44	100µF
Q45	10µF
Q46	10K
Q47	100K
Q48	1M
Q49	100µF
Q50	10µF



五

701541 138667300

Vol. 50 No. 4 1999

2012

77-2761 17000

[illegible]

7-1
6-2
5-3
4-4
3-5
2-6
1-7

உள்ளுறைகள்

22-000000000000000000

2000-01-01

2007-08-01

COPIES AVAILABLE

Author's address: Department of Mathematics, University of California, San Diego, La Jolla, CA 92037, USA.
E-mail: shashank@ucsd.edu

五、

11-12

100

100

22

1997-1998

100

10-11-78

Goody 4/21/22

卷之七

100

1

100

SINGLE LINE DIAGRAM FOR DOUBLE Y CONN. B2KV CAPACITOR BANK		DATE: 8-1-78		PAGE: 5-7-94	
SINGLE LINE DIAGRAM FOR DOUBLE Y CONN. B2KV CAPACITOR BANK		DATE: 8-1-78		PAGE: 5-7-94	

Manufacturing Experience

Criteria		Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
1. The manufacturer shall demonstrate at least five (05) years' experience in designing and manufacturing of similar nature/complex involving same or higher rated equipment/material. 2. Two (02) years satisfactory operation performance of same or high rated equipment /material.	Must meet requirement	Not applicable	Not applicable	Manufacturer must meet	Manufacturer Will provide the Detailed supply Record of similar or higher rated equipment. Satisfactory performance Of similar equipment for Two years.

Price Schedule: Goods Manufactured Outside Pakistan, to be Imported

Name of Bidder Page of

NCB	Sr. No	ITEM DESCRIPTION	Unit	Qty	Unit rate on *DDP upto Karachi Port without sales tax [in Rs] (including all transportation charges, loading , Un loading etc upto IESCO Regional Store New Wah	Total Price on *DDP upto Karachi Port without sales tax [in Rs] including transportation charges, loading , Un loading, all types of duties etc, upto IESCO Regional Store New Wah
1		2	3	4	5	6=(4x5)
PMU/Goods/ NCB-285	1	11 KV Capacitor Control Panel	No.	11		
Total Price of NCB-285 without GST/ PST						
Total Price of NCB-285 Including GST / PST						

Note:

1. The Bidder must fill the price in this Form in accordance with the instructions otherwise bid will be rejected
2. In case of discrepancy between unit price and total, the unit price shall prevail.
3. The Currencies should be in accordance with instruction BDS-12

*DDP price included all taxes and duties excluding GST

IESCO Designated Store/place: *IESCO Regional Store, Hassan Abdaal Road, New Wah.*

Name in the capacity of

Signature of Bidder:

Duly authorized to sign the Bid for and on behalf of

Dated on day of 20

Price Schedule: Goods Manufactured in Pakistan

Name of Bidder Page of

NCB	Sr. No	ITEM DESCRIPTION	Unit	Qty	Unit rate on *EXW without sales tax [in Rs] (including all transportation charges, loading , Un loading etc upto IESCO Regional Store New Wah	Total Price on EXW without sales tax [in Rs] including transportation charges, loading , Un loading, all types of duties etc, upto IESCO Regional Store New Wah
1		2	3	4	5	6=(4x5)
PMU/Goods/ NCB-285	1	11 KV Capacitor Control Panel	No.	11		
Total Price of NCB-285 without GST / PST						
Total Price of NCB-285 Including GST / PST						

Note:

1. The Bidder must fill the price in this Form in accordance with the instructions otherwise bid will be rejected
2. In case of discrepancy between unit price and total, the unit price shall prevail.
3. The Currencies should be in accordance with instruction BDS-12

*EXW price included all taxes and duties excluding GST

IESCO Designated Store/place: *IESCO Regional Store, Hassan Abdaal Road, New Wah.*

Name in the capacity of

Signature of Bidder: _____

Duly authorized to sign the Bid for and on behalf of

Dated on day of 20

Payment (GCC Clause 19)

The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:

Payment for Goods supplied from abroad:

A) payment will be made by the Finance Director IESCO Islamabad on production of the following documents:

- a) Bill in triplicate mentioning clearly NTN No. & GST No.
- b) Delivery Challan and GRN duly stamped and signed by the consignee (in original).
- c) Warranty Certificate.
- d) General Sales Tax Invoice.
- e) Inspection Certificates
- f) Certificate from Chief Engineer (Development) IESCO Islamabad regarding acceptance of Performance Bond.
- g) Certificate from Excise & Taxation Department, certifying the fact that all payable professional taxes have been cleared by the supplier.
- h) Custom clearance certificate
- j) Certificate issued from consignee store Manager that materials received vide GRN No. ___ dated ___ has been taken on stock against stock code No. ___
- k) The payment of General Sales Tax, fixed by the Government, shall be made to the firm on production of General Sales Tax return cum payment Challan
- l) Advance payment is not applicable.
- L IESCO local committee certificate

OR

B) Finance Director IESCO will establish a confirmed and irrevocable Letter of Credit for Rs. _____/- through any nationalized bank of Pakistan in your favor. All charges relating to opening of Letter of Credit and negotiation thereon, shall be borne by contractor. The amount of material excluding General Sales Tax i.e. Rs. _____/- in the Letter of Credit shall be available for negotiation and en-cashable on submission of following documents: -

- i) Bill in triplicate mentioning clearly NTN No. & GST No.
- ii) Delivery Challan and GRN duly stamped and signed by the consignee
- iii) Warranty certificate
- iv) Inspection certificate from Nominated Inspector
- v) Certificate issued by the Chief Engineer (Development), IESCO Islamabad regarding acceptance of Performance Bond.
- vi) Certificate from Excise & Taxation Department, certifying the fact that all payable professional taxes have been cleared by the supplier.
- vii) General Sales Tax Invoice.
- viii) Certificate issued from consignee store Manager that materials received vide GRN No. ___ dated ___ has been taken on stock against stock code No. ___

- ix) The payment of amount of 17% General Sales Tax i.e. Rs. _____/- in the Letter of Credit shall be available for negotiation and en-cashable on production of General Sales Tax invoice and General Sales Tax return cum payment Challan, as envisaged in Payment.
- x) Advance payment is not applicable.

The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:

Payment for Goods and Services supplied from within Pakistan:

A) 100% payment will be made by the Finance Director IESCO Islamabad on production of the following documents:

- a) Bill in triplicate mentioning clearly NTN No. & GST No.
- b) Delivery Challan and GRN duly stamped and signed by the consignee (in original).
- c) Warranty Certificate.
- d) General Sales Tax Invoice.
- e) Inspection Certificates
- f) Certificate from Chief Engineer (Development) IESCO Islamabad regarding acceptance of Performance Bond.
- g) Certificate from Excise & Taxation Department, certifying the fact that all payable professional taxes have been cleared by the supplier.
- h) Custom clearance certificate
- j) Certificate issued from consignee store Manager that materials received vide GRN No. ___ dated ___ has been taken on stock against stock code No. ___
- k) The payment of General Sales Tax, fixed by the Government, shall be made to the firm on production of General Sales Tax return cum payment Challan
- l) Advance payment is not applicable.

OR

B) Finance Director IESCO will establish a confirmed and irrevocable Letter of Credit for Rs. _____/- through any nationalized bank of Pakistan in your favor. All charges relating to opening of Letter of Credit and negotiation thereon shall be borne by contractor. The amount of material excluding General Sales Tax i.e., Rs. _____/- in the Letter of Credit shall be available for negotiation and en-cashable on submission of following documents: -

- i) Bill in triplicate mentioning clearly NTN No. & GST No.
- ii) Delivery Challan and GRN duly stamped and signed by the consignee
- iii) Warranty certificate
- iv) Inspection certificate from Nominated Inspector
- v) Certificate issued by the Chief Engineer (Development), IESCO Islamabad regarding acceptance of Performance Bond.

- vi) Certificate from Excise & Taxation Department, certifying the fact that all payable professional taxes have been cleared by the supplier.
- vii) General Sales Tax Invoice.
- viii) Certificate issued from consignee store Manager that materials received vide GRN No. ____ dated ____ has been taken on stock against stock code No. ____
- ix) The payment of amount of 17% General Sales Tax i.e., Rs. _____/- in the Letter of Credit shall be available for negotiation and en-cashable on production of General Sales Tax invoice and General Sales Tax return cum payment Challan, as envisaged in Payment.
- x) Advance payment is not applicable.



Past Experience / Contracts

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



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

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

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

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

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

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

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

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

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

Current Contract Commitments / Works in Progress

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

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

Financial Situation and Performance

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

Applicant's Name: [insert full name]

Date: [insert day, month, year]

Joint Venture Member Name: [insert full name]

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

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

1. Financial data

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

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

Average Annual Turnover (Annual Sales Value)

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

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

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

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

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

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

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

* Refer ITA for date and source of exchange rate.

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