Standard Bidding Document

SUPPLY & APPLICATION OF ROOM TEMPERATURE VULCANIZING (RTV) SILICONE RUBBER HIGH VOLTAGE COATING MATERIAL (HVIC) ON GRID EQUIPMENT (POST INSULATORS) INSTALLED AT 500kV GRID STATION GATTI FAISALABAD

(Works)

National

Single Stage-Two Envelope



November 27, 2026

Director General (Field Operations) Faisalabad (Executive Director (Field Operations) North, Lahore),Director General (Field Operations)
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REQUEST FOR BIDS

PROCUREMENT OF CIVIL WORKS

1. The **Director General (Field Operations) Faisalabad (Executive Director (Field Operations) North, Lahore)** has reserved Funds for the procurement planned for FY **2026-27**. The **Director General (Field Operations) Faisalabad (Executive Director (Field Operations) North, Lahore)** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the "**SUPPLY & APPLICATION OF ROOM TEMPERATURE VULCANIZING (RTV) SILICONE RUBBER HIGH VOLTAGE COATING MATERIAL (HVIC) ON GRID EQUIPMENT (POST INSULATORS) INSTALLED AT 500kV GRID STATION GATTI FAISALABAD**" with the reference of "**P218937**".

2. The **Director General (Field Operations) Faisalabad (Executive Director (Field Operations) North, Lahore)** invites sealed Bids from eligible Bidders for procurement of Works **(SUPPLY & APPLICATION OF ROOM TEMPERATURE VULCANIZING (RTV) SILICONE RUBBER HIGH VOLTAGE COATING MATERIAL (HVIC) ON GRID EQUIPMENT (POST INSULATORS) INSTALLED AT 500kV GRID STATION GATTI FAISALABAD)** described in the bidding documents on **EPADS v2.0**.

3. **Single Stage-Two Envelope** will be used by adopting **Least Cost Based Selection (LCBS)** Technique for the subject procurement, in line with the Public Procurement Rules, 2026 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 amount described in Bid Security Section in Bidding Document in the form of **Pay Order, Call at Deposit**. 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/218937 for all the interested bidders registered on **EPADS v2.0**. Bidders are required to get themselves registered on **EPADS v2.0** to participate in Bidding process.

6. The e-bids, prepared in accordance with the instructions in the e-Bidding documents, must be submitted through **EPADS v2.0** on or before **Tuesday, December 15, 2026 11:30 AM**. E-bids will be opened by using **EPADS v2.0** on the same day at **Tuesday, December 15, 2026 12:00 PM**. Manual submission of Bids shall not be entertained. Those vendor 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 registeration process is available at **https://www.youtube.com/watch?v=MNW6T38v7tc.**

In terms of Rules 65 of Public Procurement Rules, 2026 Grievance Redressal Committee (GRC) is notified for the subject procurement and notification copy is available on the procuring agency's website and on Authority's website at (**www.ppra.org.pk**).

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Instructions to Bidders

A. INTRODUCTION

1. **Scope of Bid**

1.1. The Procuring agency/Employer (PA), as indicated in the Bid Data Sheet (BDS) invites Bids for the execution of Works as specified in the BDS and Section VI- Works Requirements. The name, identification, and number of lots (contracts) of this National/ International Competitive Bidding process are specified in the BDS.

2. **Source of Funds**

2.1. Source of funds as referred in Clause 2 of Bid Data Sheet.

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 or consortium. In the case of a joint venture or consortium, 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 or consortium 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 or consortium during the Bidding process, and in case of award of contract, during the execution of contract. Verifiable copy of the agreement that forms a joint venture, consortium or association shall be required to be submitted as part of the Bid.

Any bid submitted by the joint venture, 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 may be prescribed

in BDS, in accordance with the guidelines issued by the PPRA).

3.2. The invitation for bids is open to all prospective bidders subject to any provisions of incorporation or licensing by the respective national/ international incorporating agency or statutory body established for that particular trade or business. Procuring agencies shall specify the registration/licensing requirements for the foreign bidder keeping in view the requirement of that business.

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

3.3.1. 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/Employer to provide consulting services for the preparation of design or technical specifications of the works that are the subject of the bid; or

3.3.2. have controlling shareholders in common; or

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

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

3.3.5. 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 bid of another bidder, or influence the decisions of the Procuring agency/Employer regarding this Bidding process; or

3.3.6. Submit more than one bid in this bidding process.

3.4. A Bidder may be ineligible if –

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

3.4.2. 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;

3.4.3. the bidder is convicted, by a final judgment of a Court of Law or relevant Professional Statuary Body, of any offence involving professional conduct;

3.4.4. The bidder is debarred/ blacklisted by a national level Procuring agency/Employer and hence debarred due to involvement in corrupt and fraudulent practices, or performance failure or due to breach of bid securing declaration.

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

3.6. Bidders shall submit proposal relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract is envisaged.

4. **Eligible Material and Equipment**

4.1. All the material and equipment to be mobilized under the contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to such materials and equipment. For this purpose, ineligible countries are stated in the section-IV titled as “Eligible Countries”.

B. BIDDING DOCUMENTS

5. **Contents of Bidding Documents**

5.1. The scope of Works, 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 7.1 include:

Section I Instructions to Bidders (ITBs)

Section II Bid Data Sheet (BDS)

Section III Evaluation and Qualification Criteria

Section VI Bidding Forms

Section V Eligible Countries

Section VI Works Requirements

Section VII General Conditions of Contract (GC)

Section VIII Particular Conditions of Contract (PC)

Section IX Contract Forms

5.2. The bidder is expected to examine all instructions, forms, specifications, terms and conditions prescribed in the bidding documents. Failure to furnish all the information required in the bidding documents will be at the bidder's risk and may result in the rejection of his bid.

6. **Clarification of Bidding Document, Pre-bid Meeting**

6.1. A prospective bidder requiring any clarification of the bidding document may notify the Procuring agency/Employer through EPADS.

6.2. The Procuring agency/Employer shall respond to the request for clarification in accordance with Rule 38 of the Public Procurement Rules 2026.

6.3. 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 7.

6.4. 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 documents.

6.5. 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. 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/Employer exclusively through the use of an Addendum pursuant to ITB 7. Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

6.6. The bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the bidder's own expense.

6.7. The bidder and any of its authorized personnel will be granted permission by the Procuring agency/Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the bidder and its personnel will release and indemnify the Procuring agency/Employer from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.

7. **Amendment of Bidding Documents**

7.1. The procuring agency may issue notification of any change, addition, modification or deletion in accordance with Rule 34 of the Public Procurement Rules 2026 i.e. Bidding Documents.

7.2. To give prospective bidders reasonable time in which to take an addendum/corrigendum into account in preparing their bids, the Procuring agency/Employer may, at its discretion, extend the deadline for the submission of bids:
Provided that the Procuring agency/Employer shall extend the deadline for submission of bid in pursuance of Rule 39 of the Public Procurement Rules 2026, i.e. Extension of time for submission of bids, if such an addendum is issued within last three (03) days of the bid submission deadline.

C. PREPARATION OF BIDS

8. **Language of Bid**

8.1. The bid prepared by the bidder, as well as all correspondence and documents relating to the bid exchanged by the bidder and the Procuring agency/Employer shall be written in the English language unless 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 specified in the BDS, in which case, for purposes of interpretation of the bidder, the translation shall govern.

9. **Documents Comprising the Bids**

9.1. The Bid prepared by the Bidder shall constitute the following components: -

9.1.1. Documentary evidence established in accordance with ITB 9 that the material and equipment to be utilized by the Bidder for the executions of works are eligible material and equipment and conform to the Bidding Documents

9.1.2. Documentary evidence established in accordance with ITB 10 that the Bidder has been authorized to carry out the Construction works;

9.1.3. Documentary evidence established in accordance with ITB 10 that the Bidder is eligible and/or qualified for the subject Bidding process;

9.1.4. Letter of Bid and Schedules and Bid Prices completed in accordance with ITB 11 and 12;

9.1.5. Completed schedules as required, including priced Bill of Quantities in accordance with ITB 11.

9.1.6. Technical Proposal completed in all aspects in accordance with ITB 14.

9.1.7. Bid security or Bid Securing Declaration furnished in accordance with ITB 16;

9.1.8. Any other Document required in the BDS.

9.2. In addition to the requirements, Bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Bid shall be signed by all members and submitted with the Bid, together with a copy of the proposed Agreement. Bids submitted by a joint venture of two (2) or more firms specified in Bidding Data, shall comply with the following requirements:

9.2.1. The bid, and in case of a successful bid, the Form of Contract Agreement shall be signed by all members so as to be legally binding on all partners;

9.2.2. One of the joint venture partners shall be nominated as being in-charge; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners.

9.2.3. For the partner-in-charge shall always be duly authorized to deal with the Employer regarding all matters related with and/or incidental to the execution of Works as per the terms and Conditions of Contract and in this regard to incur any and all liabilities, receive instructions, give binding undertakings and receive payments on behalf of the joint venture;

9.2.4. All partners of the joint venture shall at all times and under all circumstances be liable jointly and severally for the execution of the Contract in accordance with the Contract terms and a statement to this effect shall be included in the authorization mentioned under Sub-Para(b) above as well as in the Letter of Bid and in the Form of Contract Agreement (in case of a successful bid); and

9.2.5. copy of the agreement entered into by the joint venture partners shall be submitted with the bid stating the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it and which persons will be directly responsible for due performance of the Contract and can give valid receipts on behalf of the

joint venture, the proportionate participation and corresponding duties & responsibilities of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. No amendments/modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partners without prior written consent of the Employer.

9.3. The Bidder shall furnish, as part of its Bid, all those documents establishing the eligibility in conformity to the terms and conditions specified in the Bidding Documents for all material, equipment and works which the Bidder proposes to execute.

9.4. The documentary evidence of conformity of the material, equipment and works to the Bidding Documents may be in the form of literature, drawings, and data, and shall consist of:

9.4.1. a detailed description of the work methodology, approach, schedule and resources to be mobilized at site;

9.4.2. any other procurement specific documentation requirement as stated in the BDS

9.4.3. The Bidder shall furnish in the Letter of Bid name(s) of the potential DAAB member(s) and attach their curriculum vitae. The list of potential DAAB member(s) proposed by the Employer (Contract Data 21.1) and by the Bidder (Letter of Bid) shall be subject to mutual review and agreement of the Parties in accordance with Sub-Clause 21.1 of the Conditions of Contract, and shall form the basis for the constitution of the DAAB in the event of Contract award.

10. **Documents Establishing Eligibility and Qualification of the Bidder**

10.1. 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.

10.2. The documentary evidence of the bidder’s eligibility to bid shall establish to the satisfaction of the Procuring agency/Employer that the

bidder, at the time of submission of its bid, is from an eligible country as defined in Section-V titled as “Eligible Countries”.

10.3. The documentary evidence of the bidder’s qualification to perform the contract if its bid is accepted shall establish to the satisfaction of Procuring agency/Employer that:

10.3.1. The bidder has the financial and technical capability necessary to perform the Contract, meets the qualification criteria specified in Section-III, Evaluation and Qualification Criteria and BDS.

10.3.2. In the case of a bidder not doing business within Pakistan, the bidder is or will be (if awarded the contract) represented by a local bidder (Joint Venture) in accordance with the PEC works bylaws, and in case of award of works such foreign firm is required to participate in the execution of works to carry out its obligations as prescribed in the Conditions of Contract and /or Technical Specifications.

10.3.3. That the bidder meets the qualification criteria listed in Section-III, Evaluation and Qualification Criteria and BDS.

11. **Letter of Bid and Schedules**

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

12. **Bid Prices**

12.1. The bid prices quoted by the bidder in the Bidding Forms, Bill of Quantities and in the Schedule to Bid, shall conform to the requirements specified below or exclusively mentioned hereafter in the bidding documents.

12.2. The bidder shall fill in rates and prices for all items of the Works described in the Bill of Quantities. If a Price Schedule shows items listed but not priced, their prices shall be construed to be included in the prices of other items in the Bill of Quantities and will not be paid for separately by the

Procuring agency/Employer.

12.3. The Bid price to be quoted in the Form of Bid in accordance with ITB 11 shall be the total price of the bid.

12.4. Unless otherwise specified in the BDS and the Contract, the rates and prices quoted by the bidder are subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract.

12.5. If so specified in ITB 1.1, bids may be invited for individual lots (contracts) or for any combination of lots (packages).

12.6. Prices quoted by the Bidder shall either be fixed or adjustable during the Bidder’s performance of the contract if specified in the BDS

12.7. All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date twenty-eight (28) days prior to the deadline for submission of bids, shall be included in the rates and prices and the total bid price submitted by the bidder.

13. **Currencies of Bid and Payment**

13.1. The unit rates and the prices shall be quoted by the Bidder entirely Pakistani Rupees. A Bidder expecting to incur expenditures in other currencies for inputs to the Works supplied from outside the Employer’s country (referred to as the “Foreign Currency Requirements”) shall indicate in Table III of Schedule-A to Bid the proportion of the Bid Price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements; in such case the unit rates and the prices shall be quoted by the Bidder in Equivalent Pakistani Rupees. Comparison of Bids and tie of Bid shall be treated in accordance with the Public Procurement rules 2026, rule no. 42.

14. **Documents Comprising the Technical Proposal**

14.1. The bidder shall furnish a Technical Proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section IV – Bidding Forms, in sufficient detail to

demonstrate the adequacy of the bidder's proposal to meet the work requirements and the completion time.

15. **Bid Validity Period**

15.1. Bids shall remain valid for the period specified in the BDS after the bid submission deadline prescribed by the Procuring agency/Employer. A bid valid for a shorter period shall be rejected by the Procuring agency/Employer 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 bid securing declaration as the case may be.

15.2. Under exceptional circumstances, prior to the expiration of the initial Bids/Bid validity period, the Procuring Agency may request the Bidders' consent to an extension of the period of validity of their Bids/Bid. Such request for extension of the period of bid validity shall be carried out in accordance with Rule 37 of the Public Procurement Rules, 2026.

16. **Bid Security or Bid Securing Declaration**

16.1. Pursuant to ITB 10.1 unless otherwise specified in the BDS, the bidder shall furnish as part of its bid, a Bid Security in accordance with Rule 36 of the Public Procurement Rules, 2026 in the amount and currency specified in the BDS or Bid Securing Declaration as specified in the BDS in the format provided in Section IV (Bidding Forms).

In case Procuring agency/Employer is inviting bids in lots / packages, the bidder shall be required to submit his bid security against the respective lot/ package for which he is submitting his bid.

Until the development of functionality of auto verification of financial instrument in EPADS, the scanned copy of bid security or bid securing declaration, as the case may be, shall be uploaded on E-PADS whereas the original instrument to be submitted to the procuring agency before closing of bid submission deadline, failing which shall result in rejection of Bid as non-responsive.

16.2. The Bid Security shall be denominated in the local currency or in another freely convertible currency, and it shall be in the form specified in

the **BDS** which shall be in any of the following:

16.2.1. A bank guarantee, an irrevocable letter of credit issued by a Scheduled bank in the form provided in the Bidding Documents or another form acceptable to the Procuring agency/Employer and valid for twenty-eight (28) days beyond the end of the validity of the Bid. This shall also apply if the period for Bid Validity is extended. In either case, the form must include the complete name of the bidder;

16.2.2. A cashier's or certified cheque; or

16.2.3. Another security as indicated in the **BDS**.

16.3. The Bid Security or Bid Securing Declaration shall be in accordance with the Form of the Bid Security or Bid Securing Declaration included in Schedule to Bid or another form approved by the Procuring agency/Employer prior to the bid submission.

16.4. The Bid Security shall be payable promptly upon written demand by the Procuring agency/Employer in case any of the conditions listed in ITB 16.9 are invoked.

16.5. Any bid not accompanied by a Bid Security or Bid Securing Declaration in accordance with ITB 16.1 or 16.3 shall be rejected by the Procuring agency/Employer and shall be declared as non-responsive bid, pursuant to ITB 25.

16.6. 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 Bid Validity prescribed by the Procuring agency/Employer pursuant to ITB 15. The Procuring agency/Employer 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:

16.6.1. The expiry of the Bid Security;

16.6.2. The entry into force of a procurement contract and the provision of a performance security (or guarantee), for the performance of the contract if such a security (or guarantee), is required by the Biding documents;

16.6.3. The rejection by the Procuring agency/Employer of all Bids;

16.6.4. The withdrawal of the bid prior to the deadline for the submission of bids, unless the biding documents stipulate that no such withdrawal is permitted.

16.7. The successful bidder’s Bid Security will be discharged upon the bidder signing the contract pursuant to ITB 38, or furnishing the performance security (or guarantee), pursuant to ITB 39.

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

16.8.1. if a Bidder:

16.8.1.1. Withdraws its Bid during the period of Bid Validity as specified by the Procuring agency/Employer, and referred by the bidder on the Form of Bid except as provided for in ITB 15.2; or

16.8.2. In the case of a successful bidder, if the bidder fails:

16.8.2.1. to sign the contract in accordance with ITB 38; or

16.8.2.2. to furnish performance security (or guarantee) in accordance with ITB 39.

16.9. In case of Bid Security issued by the foreign bank is allowed by the Procuring agency/Employer, the same should be counter guaranteed by a corresponding bank in Pakistan. Furthermore, in case of joint venture, it should be in the name of Joint venture to ensure joint responsibility. In case the JV is not legally constituted at the time of bid submission, the bid security or bid securing declaration shall be in the names of Joint Venture or Lead/either Firm of the JV or in ratio of shares of the individual JV partners, submitting the bid.

17. **Withdrawal of Bids**

17.1. The Bidder shall prepare and submit Bids through EPADS with due diligence after carefully reading all the terms and condition before Bid submission deadline

18. **Format and Signing of Bid**

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

D. SUBMISSION OF BIDS

20. **Submission of Bids through EPADS v2.0**

20.1. All bids shall be submitted through EPADS v2.0.

21. **Deadline for Submission of Bids**

21.1. All bids shall be received through **EPADS v2.0** not later than bid submission deadline as specified in the **BDS**.

21.2. The Procuring agency/Employer may, under exceptional circumstances and at its discretion, extend the deadline for the submission of bids, pursuant to Rule 39 of the Public Procurement Rules, 2026. Extension of Time for submission of bid, by amending the Bidding Documents in accordance with ITB 7, in which case all rights and obligations of the Procuring agency/Employer and bidders previously subject to the deadline will thereafter be subject to the new deadline.

22. **Withdrawal, Substitution and Modification of Bids**

22.1. A bidder may substitute or modify his bid after it has been submitted, provided that written notice of the substitution or modification of the bid, is received by the Procuring agency/Employer prior to the deadline for submission of bids.

22.2. Revised bid may be submitted after the substitution or modification made in the original bid in accordance with the provisions referred in **ITB 20.1**.

E. OPENING AND EVALUATION OF BIDS

23. **Opening of Bids**

23.1. The Procuring Agency will open bids in accordance with Rule 40 of the Public Procurement Rules, 2026 and as specified in the BDS.

24. **Confidentiality**

24.1. Information relating to the examination, clarification, evaluation and comparison of bids and recommendation of contract award shall not be disclosed to bidders or any other persons not officially concerned with such process until the time of the announcement of the respective evaluation report.

25. **Clarification of Bids**

25.1. Clarification of Bidding Documents shall be carried out in accordance with Rule 38 of the Public Procurement Rules, 2026.

25.2. The alteration or modification in the bid which in any case affect the following parameters will be considered as a change in the substance of a bid:

25.2.1. evaluation & qualification criteria;

25.2.2. required scope of work;

25.2.3. contract price;

25.2.4. all securities requirements;

25.2.5. tax requirements;

25.2.6. terms and conditions of bidding documents.

25.2.7. change in the ranking of the bidder

26. **Preliminary Examination of Bids**

26.1. Prior to the detailed evaluation of bids, the Procuring agency/Employer will determine whether each bid:

26.1.1. meets the eligibility criteria defined in **ITB 3** and **ITB 4**;

26.1.2. has been prepared as per the format and contents defined by the Procuring agency/Employer in the bidding documents;

26.1.3. has been properly signed;

26.1.4. is accompanied by the required securities; and

26.1.5. is substantially responsive to the requirements of the bidding documents.

The Procuring agency/Employer's determination of a bid's substantial responsiveness will be based on the contents of the bid itself.

26.2. 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: -

26.2.1. affects in any substantial way the scope, quality, or performance of the Works;

26.2.2. limits in any substantial way, inconsistent with the bidding documents, the Procuring agency/Employer's rights or the bidders' obligations under the Contract; or

26.2.3. if rectified, would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

26.3. The Procuring agency/Employer will confirm that the documents and information specified under ITB 9, 10 and 11 have been provided in the bid. If any of these documents or information is missing, or is not provided in accordance with the Instructions to Bidders, the bid shall be rejected.

26.4. The Procuring agency/Employer may waive-off any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

Explanation: A minor informality, non-conformity or irregularity is one that is merely a matter of form and not of substance. It also pertains to some of the invitation that can be corrected or waived without being prejudicial to other bidders. The defect or variation is immaterial when the effect on quantity, quality, or delivery is negligible when contrasted with the total cost or scope of the works. The Procuring agency/Employer either shall give the bidder an opportunity to cure any deficiency resulting from a minor informality or irregularity in a bid or waive the deficiency, whichever is advantageous to the Procuring agency/Employer. Examples of minor informalities or irregularities include failure of a bidder to –

26.4.1. *Submit the number of copies of signed bids required by the invitation;*

26.4.2. *Furnish required information concerning the number of its employees;*

26.4.3. *the firm submitting a bid has formally adopted or authorized, before the date set for opening of bids, the execution of documents by typewritten, printed, or stamped signature and submits evidence of such authorization and the bid carries such a signature.*

26.5. Provided that a Technical Bid is substantially responsive, the Procuring agency/Employer may request the bidder to submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Technical Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any such aspect of the technical Proposal linked with the ranking of the bidders. Failure of the bidder to comply with the request may result in the rejection of its bid.

26.6. Provided that a Technical Bid is substantially responsive, the Procuring agency/Employer shall rectify quantifiable nonmaterial nonconformities or

omissions related to the Financial Proposal. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of the missing or nonconforming item or component.

26.7. If a bid is not substantially responsive, it will be rejected by the Procuring agency/Employer and may not subsequently be evaluated for complete technical responsiveness.

27. **Examination of Terms and Conditions; Technical Evaluation**

27.1. The Procuring agency/Employer shall examine the bid to confirm that all terms and conditions specified in the **GC** and the **PC** have been accepted by the bidder without any material deviation or reservation.
For this purpose:
“Deviation” means departure from the requirements specified in the Bidding Document.
“Reservation” means setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document.

27.2. The Procuring agency/Employer shall evaluate the technical aspects of the bid submitted in accordance with ITB 28, to confirm that all requirements specified in Section VI – Works Requirement, Technical Specifications of the Bidding Documents have been met without material deviation or reservation.

27.3. If after the examination of the terms and conditions and the technical evaluation, the Procuring agency/Employer determines that the bid is not substantially responsive in accordance with ITB 25, it shall reject the bid.

28. **Correction of Arithmetic Errors**

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

28.1.1. if there is a discrepancy between unit prices and the sub-total price that is obtained by multiplying the unit price and quantity, the unit

price shall prevail, and the sub-total price shall be corrected, unless in the opinion of the Procuring agency/Employer 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;

28.1.2. Subtraction of sub-totals, the sub-totals shall prevail, and the total shall be corrected; and

28.1.3. where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.

28.1.4. Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.

28.2. The amount stated in the Bid will, be rectified by the Procuring agency/Employer 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 shall be rejected after forfeiture of Bid Security or execution of the Bid Securing Declaration, as the case may be, in accordance with **ITB 39.3**.

29. **Conversion to Single Currency**

29.1. Comparison of bids quoted in different currencies and conversion of bids into a single currency shall be carried out in accordance with the Public Procurement Rule 2026, rule no. 42(2) as specified in the BDS

30. **Evaluation of Bids**

30.1. The Procuring agency/Employer shall evaluate and compare only the bids determined to be substantially responsive, pursuant to **ITB 25**.

30.2. In evaluating the Technical Proposal of each Bid, the Procuring agency/Employer shall use the criteria and methodologies listed in the BDS and in terms of works requirement. No other evaluation criteria or methodologies shall be permitted.

30.3. The Procuring agency/Employer's evaluation of a bid will take into account:

30.3.1. the bid price, excluding provisional sums and the provision, if any, for contingencies in the summary bill of quantities, but including day work items, where priced competitively;

30.3.2. converting the amount resulting from applying above, if relevant, to a single currency in accordance with ITB 27;

30.4. The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in bid evaluation.

30.5. If these bidding documents allow bidders to quote separate prices for different lots, and the award to a single bidder of multiple lots, the methodology of evaluation to determine the lowest evaluated lot combinations in the Form of Bid, is specified in the **BDS**.

30.6. If the bid, which results in the Evaluated Bid Price (Successful Bid), is seriously unbalanced or front loaded in the opinion of the Employer, the Employer may require the Bidder to produce detailed price analyses for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, taking into consideration the schedule of estimated Contract payments, the Employer may require that the amount of the performance security be increased at the expense of the Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract.

Explanation:

"Unbalanced" or "front-loaded" bids consist of deliberately submitting bids with artificially high prices or unit rates for the early stages of a construction project, offset by artificially low prices or unit rates for the later stages of the project, to improve the contractor's cash flow.

31. **Domestic Preference**

31.1. If the **BDS** so specifies, the Procuring agency/Employer will grant a margin of preference to the domestic contractor in line with the rules, regulations, regulatory guides or instructions issued by the Authority from time to time.

32. **Determination of Successful Bid**

32.1. The Procuring agency/Employer shall compare the evaluated bids in accordance with the predefined bidding procedure, of all substantially responsive bids to determine the Successful bidder.

33. **Qualification of Bidder**

33.1. The Procuring agency/Employer shall determine to its satisfaction whether the bidder is substantially responsive and whose bid is declared as Successful bid either continues to meet (if prequalification applies) or meets (if post-qualification applies) the qualifying criteria specified in Evaluation and Qualification Criteria.
Note: In case of international bidding, the parameters for incorporation or licensing within Pakistan may be fulfilled as part of post qualification.

33.2. The determination shall be based upon an examination of the documentary evidence of the bidder’s qualifications submitted by the bidder, pursuant to **ITB 10**.

33.3. Prior to contract award, the Procuring agency/Employer will verify that the successful bidder (including each member of a JV) is not blacklisted/debarred. The Procuring agency/Employer will conduct the same verification for each sub-contractor proposed by the successful bidder.

34. **Sub-Contractors**

34.1. The bidder shall provide details regarding any specialized sub-contractor to the Procuring agency/Employer. In case change of sub-contractors, the bidder shall promptly notify the Procuring agency/Employer and obtain approval for replacement of sub-contractors.

34.2. Bidders may propose sub-contracting up to the percentage of total value of contracts or the volume of works as specified in the **BDS**.

35. **Abnormally Low Financial Bid**

35.1. A procuring Agency may reject abnormally low bids in accordance with the Public Procurement Rules 2026 rule no. 43. The decision of the Procuring agency/Employer to reject a bid and reasons for the decision shall be recorded in the procurement proceedings and promptly communicated to the bidder concerned. Moreover, the Procuring agency/Employer shall not incur any liability solely by rejecting abnormally bid

Guidance for Procuring agency/Employer:

An abnormally low Bid means, a Bid containing Bid price that is less or lesser than twenty five percent (25%) of the Procuring agency/Employer's estimate.

35.2. The Procuring agency/Employer will determine to its satisfaction whether the bidder that is selected as having submitted the successful bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in **ITB 10.**

35.3. The determination will take into account the bidder's financial and technical capabilities. It will be based upon an examination of the documentary evidence of the bidder's qualifications submitted by the bidder, pursuant to **ITB 10**, as well as such other information as the Procuring agency/Employer deems necessary and appropriate. Factors not included in these bidding documents shall not be used in the evaluation of the bidders' qualifications.

35.4. Procuring agency/Employer may seek "Certificate for Independent Price Determination" from the bidder and the results of reference checks may be used in determining 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.

35.5. 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 bid, in which event the Procuring agency/Employer will proceed to the next ranked bidder to make a similar determination of that bidder’s capabilities to perform satisfactorily.

F. AWARD OF CONTRACT

36. **Criteria of Award**

36.1. Subject to **ITB 34 and 35**, the Procuring agency/Employer will award the Contract to the bidder whose bid has been determined to be substantially responsive to the bidding documents and who has been declared as Successful Bidder, provided that such bidder has been determined to be:

36.1.1. eligible in accordance with the provisions of **ITB 3**;

36.1.2. is determined to be qualified to perform the Contract satisfactorily; and

36.1.3. Successful negotiations have been concluded, if any.

37. **Negotiations**

37.1. The Committee of the Procuring agency/Employer may negotiate with the Successful Bidder in accordance with Public Procurement Rules 2026 rule no. 26(3).

38. **Procuring agency's Right to reject All Bids**

38.1. The procuring agency has the right to reject all bids in accordance with Rule 45 of the Public Procurement Rules, 2026. However, the Authority (i.e. **PPRA**) may call from the Procuring agency/Employer the justification of those grounds.

39. **Notification of Award**

39.1. The procuring agency shall announce and publish the evaluation result in accordance with Rule 48 of the Public Procurement Rules, 2026.

39.2. Where no complaints have been lodged, the bidder whose bid has been accepted will be notified of the award by the Procuring agency/Employer prior to expiration of the bid validity period through EPADS. However, the Procuring agency/Employer shall not award any procurement contract at least for five (05) days after the announcement of final evaluation report. The notification letter (herein after and in the condition of the contract and contract form called “Letter of Acceptance” will specify the sum that the Procuring agency/Employer will pay the successful bidder in consideration for the execution and completion of the works as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price).

39.3. The notification of award will constitute the formation of the Contract, subject to the bidder furnishing the Performance Security (or guarantee) in accordance with **ITB 39** and signing of the contract in accordance with **ITB 38**.

39.4. Upon the successful bidder’s furnishing of the performance security (or guarantee) pursuant to **ITB 39**, the Procuring agency/Employer will promptly notify each unsuccessful bidder, the name of the successful bidder and the Contract amount and will discharge the Bid Security or Bid Securing Declaration of the bidder(s) pursuant to **ITB 16**.

40. **Signing of Contract**

40.1. Promptly after notification of award, Procuring agency/Employer shall send the successful bidder the draft agreement, incorporating all terms and conditions as agreed by the parties to the contract.

40.2. Immediately after the Redressal of grievance by the **GRC**, and after fulfillment of all conditions precedent of the Contract Form, the successful bidder and the Procuring agency/Employer shall sign the contract.

40.3. Where no formal signing of a contract is required, work order issued to the bidder shall be construed to be the contract.

41. **Performance Security (or Guarantee)**

41.1. After the receipt of the Letter of Acceptance, the successful bidder, within the specified time, shall deliver to the Procuring agency/Employer a Performance Guarantee in the amount and in the form stipulated in the BDS and PCC, denominated in the type and proportions of currencies in the Letter of Acceptance and in accordance with the Conditions of Contract.

41.2. If the Performance Guarantee is provided by the successful bidder and it shall be in the form specified in the BDS which shall be in any of the following:

41.2.1. certified cheque, cashier's or manager's cheque, or bank draft;

41.2.2. irrevocable letter of credit issued by a scheduled bank of Pakistan or in the case of an irrevocable letter of credit issued by a foreign bank, the letter shall be confirmed or authenticated by a scheduled bank of Pakistan;

41.2.3. bank guarantee confirmed by a reputable local bank or, in the case of a successful foreign bidder, bonded by a foreign bank; or

41.2.4. surety bond callable upon demand issued by any reputable surety or insurance company.
Any Performance Guarantee submitted shall be enforceable in Pakistan.

41.3. Failure of the Most Advantageous Bidder to comply with the requirement of **ITB 40** shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security or declare blacklisted (in case bid securing declaration is submitted) in which event the Procuring agency/Employer may make the award to the next most advantageous bidder or reinitiate the procurement process afresh (as a case may be).

42. **Advance Payment**

42.1. Advance payment will be provided to the bidder in percentage and in the manner as agreed by the both parties in terms of Conditions of the Contract.

42.2. The Procuring agency/Employer will provide an advance payment as stipulated in the Conditions of Contract, subject to a maximum amount, as stated and/or Conditions of the Contract. The advance payment request shall be accompanied by an advance payment security (guarantee) in the form provided in Section X. For the purpose of receiving the advance payment, the bidder shall make and estimate of, and include in its bid, the expenses that will relate to the purchase of equipment, machinery, materials, and on the engagement of labor during the first month beginning with the date of the Procuring agency/Employer's "**Notice to Commence**" as specified in the **PCC**.

43. **General Performance of the Bidders**

43.1. The Procuring agency/Employer reserves the right to obtain information regarding performance of the bidders on their previously awarded contracts / works. The Procuring agency/Employer may seek information / report from the previous employer for consideration. However, the Procuring agency/Employer shall incorporate such parameters in the evaluation criteria and accordingly decide the fate of the bid submitted.

44. **Corrupt & Fraudulent Practices**

44.1. Procuring agencies (including beneficiaries of Government funded projects and procurement) as well as Bidders/Suppliers/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.

G. GRIEVANCE REDRESSAL & COMPLAINT REVIEW MECHANISM

45. **Grievance Redressal**

45.1. Grievance Redressal shall be carried out in accordance with Rule 65 of the Public Procurement Rules, 2026 i.e. Redressal of grievances by the procuring agency and "Redressal of Grievances Regulations 2021".

H. MECHANISM OF BLACKLISTING

46. **Mechanism of Blacklisting**

46.1. The Procuring agency/Employer shall proceed Blacklisting of Bidders/Contractors in accordance with Rule 25 of the Public Procurement Rules, 2026 i.e. Blacklisting and “Blacklisting and Debarment of Bidders or Contractors Regulations 2024.

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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		
1	**1.1**	Name of Procuring Agency:**Director General (Field Operations) Faisalabad (Executive Director (Field Operations) North, Lahore)** The subject of procurement is:**SUPPLY & APPLICATION OF ROOM TEMPERATURE VULCANIZING (RTV) SILICONE RUBBER HIGH VOLTAGE COATING MATERIAL (HVIC) ON GRID EQUIPMENT (POST INSULATORS) INSTALLED AT 500kV GRID STATION GATTI FAISALABAD** Expected commencement date: **Thursday, December 31, 2026**
2.	**2.1**	Financial year for the operations of the Procuring Agency:**2026-27** Name and identification number of the Contract: **P218937**
3.	**3.1**	JV/Consortium or AssociationAllowed: **Yes** Number of JV/Consortium Members: **2**

B. Bidding Documents

4.	**6.2 & 6.4**	The Bidders may seek clarifications through **EPADS v2.0**: Clarification Date: Saturday, December 12, 2026
5.	**7.2**	Any addendum, in case issued, shall be published on **Director General (Field Operations) Faisalabad (Executive Director (Field Operations) North, Lahore)** website and on **EPADS v2.0**.

C. Preparation of Bids

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6.	**8.1**	List of documents required along with the bid: 1. Forms: Financial Forms Form ELI - 1: Bidder’s Information SheetForm ELI - 2: GENERAL INFORMATION & EVIDENCE OF MANUFACTURER’S CAPABILITYForm ELI - 3: Joint Venture Information SheetForm: Credit LineAppendix D COMFORT LETTERLETTER OF TECHNICAL BID AND SCHEDULES TO BIDSchedule A to Bid: Specific Works Data (Schedule of Technical data) Schedule B to Bid: Proposed Organization for the Project & Work Methodology Form 1: Site Organization & Method Statement Form 2: Mobilization Schedule 2. Schedule C to Bid: Implementation Schedule Schedule E to Bid: Manufacturer Schedule F to Bid: Country of Origin Declaration Form Schedule G-1 to Bid: Deviations from Technical Provisions Schedule G-2 to Bid: Deviations from Contractual Conditions Schedule H To Bid: Specimen JV Agreement Schedule I To Bid: Equipment Schedule L to Bid Manufacturer’s Authorization Schedule K to Bid Undertaking (SOP of Blacklisting) 3. FORM/LETTER OF PRICE BID AND SCHEDULES TO BID Form of Price Bid Schedules to Bid Schedule J to Bid: Integrity Pact
7.	**9.1**	The qualification criteria to establish the supply / production capability of the bidder. *see Eligibility Criteria*

8.	**11.2**	**Works and Their relateddocuments:** *See section Required Scope of Work*
9.	**11.1**	Price schedule will be provided according to the format defined and acquired. *see section price schedule.*
10.	**11.4**	**Specifications:** *see section of specifications.*
11.	**11.5 & 13.5**	The price shall be **Fixed**. The bid price shall be adjusted in accordance with Appendix provided – Formula for Price Adjustment.
12.	**14.1**	Currency of the Bids shall be : **PKR**
13.	**16.1**	The Bids/Bid Validity period shall be: **180 Days**
14.	**17.1**	The amount of Bid Security shall be as defined in Bid Security Section for items and lots given in **BDS 6**
15.	**17.2**	The Bid Security shall be in the form of: **Pay Order, Call at Deposit**
16.	**15.1**	Alternative Bids to the requirements of the bidding documents willnot be permitted.

D. Submission of Bids

17.	**18.1 & 21.1**	Bid shall be submitted online on EPADS v2.0 whereas hard copy of the bid security should be submitted to the following; **500kV Grid Station Gatti, Faisalabad** Bids that are not submitted on EPADS v2.0 shall be disqualified. The deadline for Bids submission is: **Tuesday, December 15, 2026 11:30 AM**
E. Opening and Evaluation of Bids		
18.	**24.1**	The Bids opening shall take place on **EPADS v2.0** . Day *:* ***Tuesday*** Date:***December 15, 2026*** Time *:* ***12:00 PM***
19.	**30.2**	Selection technique adopted will be: **Least Cost Based Selection (LCBS)** *see Evaluation Criteria*
F. Award of Contract		
20.	**41.1 & 41.2**	The Performance guarantee shall: **10.00%**. The Performance Guarantee shall be acceptable in the form of:**Pay Order, Call at Deposit**
21.	**45.1**	Arbitrator shall be appointed by mutual consent of the both parties.

G. Review of Procurement Decisions

22.	**37**	Grievance against this procurement shall be submitted online on EPADS v2.0.

Eligibility Criteria

All Active Taxpayers shall be eligible to participate in the procurement process, unless expressly excluded or otherwise restricted under the Eligibility Criteria specified by the Procuring Agency.

Required Registration
NADRA CITIZENSHIP (CNIC/NICOP) FBR (NTN) FBR (GSTN) Punjab (PRA) PEC

Eligibility Criteria	Document
The bidder shall be a legally registered manufacturer, supplier or authorized distributor, having valid legal registration in Pakistan. A copy of the relevant registration certificate shall be submitted.	Yes
2. The Bidder shall not be blacklisted by NationalGrid/WAPDA/DISCOs/any Government/Public department/Donor Agencies at the time of submission of bids. The Bidder should provide details of previous black listing, if any. An affidavit is to be provided by the Bidder that the Bidder is not black listed by NTDC/ NationalGrid-Pakistan /WAPDA/ DISCOs/any Government/Public department/Donor Agencies at the time of submission of bids. Non-submission of this undertaking may result in the rejection of the	Yes
3. The bidder shall submit an unconditional “Comfort Letter” along with their bid as per Appendix-D to Bidding Data from a schedule bank (the Bank) in Pakistan extend banking facilities to the bidder including but not limited to opening of Letter of Credit, making payment through direct disbursement procedure, retirement of the shipping documents, issuance of electronic import form (EIF) for custom clearance purposes, in case of award of Contract.	Yes

4. The bidder shall submit dully filled/complete Beneficial Ownership Declaration Proforma as per S.R.O 592(I)/2022 available at https://www.ppra.org.pk/doc/sro592.pdf	Yes
PEC C-5 (with EE-05 or had applied for renewal of license before submission of its bid. In case of Joint Venture, all the partners shall be duly licensed by PEC.)	Yes

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Evaluation Criteria

Least Cost Based Selection (LCBS)

Weightage

Technical Evaluation %
100

Technical Marks	100
Passing Marks	**60**
Technical Evaluation Criteria	
Manufacturer's Technical Compliance and Type Test Reports (Quantitative)(Doc Required)	25
Relevant Experience of the Bidder (Qualitative)(Doc Required)	35
Work Methodology, Quality Assurance and Testing Plan (Qualitative)(Doc Required)	20
Qualification and Experience of Key Personnel (Qualitative)(Doc Required)	20

Jobs/Lots

Jobs Without Lots :

Job	Delivery Schedule	Quantity	Bid Security

Supply & Application of Room Temperature Vulcanizing (RTV) Silicone Rubber High Voltage Insulator Coating (HVIC) material by spray method on 500kV Grid Equipment i.e. CVT, CT, Post Insulators, LA, ATB LV/HV/Neutral Bush, Shunt Reactor Neutral Bush et	Address: 500kV Grid Station Gatti, Faisalabad Schedule: 60 Days Quantity: 78487459/cm2	78487459/cm2	2228226 PKR

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Related Services :

No

Work Specifications and Market Rates

Jobs Without Lots :

Job: Supply & Application of Room Temperature Vulcanizing (RTV) Silicone Rubber High Voltage Insulator Coating (HVIC) material by spray method on 500kV Grid Equipment i.e. CVT, CT, Post Insulators, LA, ATB LV/HV/Neutral Bush, Shunt Reactor Neutral Bush et

Specifications / Requirements:

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Rate in Words	Amount

1	1	Supply & Application of Room Temperature Vulcanizing (RTV) Silicone Rubber High Voltage Insulator Coating (HVIC) material by spray method on 500kV Grid Equipment i.e. CVT, CT, Post Insulators, LA, ATB LV/HV/Neutral Bush, Shunt Reactor Neutral Bush etc. after thorough washing & cleaning of insulator surface of	cm2	78487459	0.9463191 (PKR)		74,274,188 (Including all applicable taxes)

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2	CONDITIONS						
3	The quantities given in the Price Schedules are estimated quantities.						
4	The contractor shall be paid for actual quantities in accordance with the unit rates given in the Price Schedules.						
5	In Case of Discrepancy, between unit price and total, the unit price will prevail.						

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6	The bidder shall quote its bid price for the complete scope of work, including the supply and application of RTV coating material on the 500kV Grid Station equipment at Gatti, thorough washing and cleaning of the equipment surfaces prior to application, and all associated Factory Acceptance Tests (FATs)/ inspections and related activities, in accordance							

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7	For better understanding of the actual site and RTV coating requirements, prospective bidders may visit office of Senior Manager, 500 kV Grid Station Gatti, Faisalabad, at least 07 days prior to the bid opening date.						

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8	FAT/ Site acceptance tests/ Inspections of the RTV material and RTV coated insulator surface of Grid Equipment shall be carried out separately, to ensure the quality of RTV material and coated insulators as per clause 7.0 of Technical Specification in section IX.						

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9	The applicable specifications are to be read carefully before filling up the Schedule of Prices.						
						GRAND TOTAL:	Rs74,274,188.00

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Scope of Work

Supply & Application of Room Temperature Vulcanizing (RTV) Silicone Rubber High Voltage Insulator Coating (HVIC) material by spray method on 500kV Grid Equipment i.e. CVT, CT, Post Insulators, LA, ATB LV/HV/Neutral Bush, Shunt Reactor Neutral Bush etc. after thorough washing & cleaning of insulator surface of each equipment

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Price Schedule

For Individual Jobs

#	Job 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]		

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General Conditions of Contract

A. General

1. **Definitions**

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

1.1.1. “Applicable Law” means the laws and any other instruments having the force of law in the Government’s Country, or in such other country as may be specified in the Special Conditions of the Contract (SC), as they may be issued and in force from time to time;

1.1.2. “The Contract” means an agreement enforceable by law;

1.1.3. “The Contract Price” means the price payable to the Contractor under the Contract for the full and proper performance of its contractual obligations;

1.1.4. “The Services” means the work to be performed by the Contractor pursuant to this Contract and as prescribed in the Specifications and Schedule of Activities included in the Contractor’s Bid;

1.1.5. “Ancillary Services” means those services ancillary to the provision of Services, 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 Contractor covered under the Contract;

1.1.6. “GCC” means the General Conditions of Contract contained in this section;

1.1.7. “SCC” means the Special Conditions of Contract by which the GCC may be amended or supplemented;

1.1.8. **“**Day” means calendar day unless indicated otherwise;

1.1.9. “Effective Date” means the date on which this Contract comes into force and effect;

1.1.10. “The Contractor” means the individual or corporate body whose Bids to provide the Services has been accepted by the Procuring Agency;

1.1.11. “The Project Site,” where applicable, means the place or places named in Bid Data Sheet and technical Specifications;

1.1.12. “Government” means the Government of Pakistan;

1.1.13. “Local Currency” means the currency of Pakistan;

1.1.14. “In Writing” means communicated in written form with proof of receipt;

1.1.15. “Completion Date” means the date of completion of the Services by the Contractor as certified by the Procuring Agency;

1.1.16. “Foreign Currency” means any currency other than the currency of the country of the Procuring Agency;

1.1.17. “Party” means the Procuring Agency or the Contractor, as the case may be, and “Parties” means both of them;

1.1.18. "Service" means any object of procurement other than goods or works;

1.1.19. “Subcontractor” means any entity to which the Bidder subcontracts any part of the Services.

2. **Applicable Law**

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

3. **Language**

3.1. The Contract as well as all correspondence and documents relating to the Contract exchanged between the Contractorand 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.

4. **Notices**

4.1. 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**.

5. **Location**

5.1. The Services shall be performed at such locations as the Procuring Agency may approve and as specified in **SCC.**

5.2. A {DOCUMENTS}

6. **Authorized Representatives / Authority of Member in charge**

6.1. 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 Contractor may be taken or executed by the officials specified in the **SCC**.

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

7. **Effectiveness of Contract**

7.1. 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.**

8. **Commencement of Services**

8.1. The Contractor 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.**

9. **Program schedule**

9.1. Before commencement of the Services, the Contractor 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.

10. **Starting Date/Expiration Date**

10.1. The Contractor 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.**

10.2. Unless terminated earlier pursuant to Clause **GCC 14** hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the **SCC.**

11. **Entire Agreement**

11.1. 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.

12. **Modification**

12.1. 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 modification(s) or variation(s) made by the other Party.

12.2. In cases of any modification(s) or variation(s), the prior written consent of the Procuring Agency is required.

13. **Force Majeure**

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

13.2. **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.

13.3. **Extension of Time**
Any period within which a Contractor 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.

13.4. **Payments**
During the period of their inability to perform the Services as a result of an event of Force Majeure, the Contractor 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.

14. **Termination**

14.1. **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 Contractor 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);

14.1.1. If the Contractor fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension;

14.1.2. If the Contractor becomes (or, if the Contractor 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;

14.1.3. If the Contractor fails to comply with any final decision reached as a result of arbitration proceedings;

14.1.4. If, as the result of Force Majeure, the Contractor is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;

14.1.5. If the Procuring Agency, in its sole discretion and for any reason whatsoever, decides to terminate this Contract;

14.2. **By the Contractor**
The Contractor 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.

14.2.1. If the Procuring Agency fails to pay any money due to the Contractor pursuant to this Contract and not subject to dispute within forty-five (45) calendar days after receiving written notice from the Contractor that such payment is overdue;

14.2.2. If, as the result of Force Majeure, the Contractor is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;

14.2.3. If the Procuring Agency fails to comply with any final decision reached as a result of arbitration;

14.2.4. If the Procuring Agency is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Bidder may have subsequently approved in writing) following the receipt by the Procuring Agency of the Contractor's notice specifying such breach.

C. Obligations of the Contractor

15. **General**

15.1. **Standard of Performance**

15.1.1. The Contractor shall perform the Services 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 Contractor 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;

15.1.2. The Contractor shall employ and provide such qualified and experienced Experts and Sub-Contractors as are required to carry out the Services.

15.2. **Law Applicable to Services**

The Contractor shall perform the Services 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.

16. **Conflict of Interests**

16.1. **Contractor Not to Benefit from Commissions and Discounts**

The remuneration of the Contractor shall constitute the Contractor's sole remuneration in connection with this Contract or the Services, and the Contractor 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 Contractor 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.

16.2. **Contractor and Affiliates Not to be Otherwise Interested in Project**

The Contractor agree that, during the term of this Contract and after its termination, the Contractor and its affiliates, as well as any Subcontractor and any of its affiliates, shall be disqualified from providing Services (other than the Services and any continuation thereof) for any project resulting from or closely related to the Services.

16.3. **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:

16.3.1. during the term of this Contract, any business or professional activities in the Government's country which would conflict with the activities assigned to them under this Contract;

16.3.2. during the term of this Contract, neither the Contractor nor their Subcontractors shall hire public employees in active duty or on any type of leave, to perform any activity under this Contract;

16.3.3. after the termination of this Contract, such other activities as may be specified in the **SCC.**

17. **Insurance to be Taken Out by the Contractor**

17.1. The Contractor(a) shall take out and maintain, and shall cause any Subcontractors to take out and maintain, at its (or the Sub-contractors', as the case may be) own cost but on terms and conditions approved by the Procuring Agency, insurance against the risks, 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.

18. **Contractor's Actions Requiring Procuring Agency's Prior Approval**

18.1. The Contractor shall obtain the Procuring Agency's prior approval in writing before taking any of the following actions:

18.1.1. appointing such members of the Personnel not provided by the Contractor;

18.1.2. changing the Program of activities; and

18.1.3. any other action that may be specified in the **SCC.**

19. **Reporting Obligations**

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

20. **Liquidated Damages**

20.1. **Payments of Liquidated Damages**
The Contractor shall pay liquidated damages to the Procuring Agency at the rate per day stated in the **SCC** for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount defined in the **SCC**. The Procuring Agency may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's liabilities.

20.2. **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 Contractor by adjusting the next payment certificate. The

Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in **SCC.**

20.3. **Lack of performance penalty**
If the Contractor 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 Contractor. The amount to be paid will be calculated as a percentage of the cost of having the Defect corrected, assessed as specified in the Contractor

21. **Performance Guarantee**

21.1. Within the time stipulated in the acceptance letter from the Procuring Agency, the successful Bidder shall furnish the Performance Guarantee in shape and amount **specified in SCC.**

21.2. 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.

21.3. 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**.

21.4. 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.**

22. **Sustainable Procurement**

22.1. The Contractor shall conform to the sustainable procurement contractual provisions, if and as specified in the **SCC.**

D. Contractor's Personnel

23. **Description of Personnel**

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

24. **Removal and / or Replacement of Personnel**

24.1. 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 Contractor, it becomes necessary to replace any of the Key Personnel, the Contractor shall provide as a replacement a person of equivalent or better qualifications.

24.2. 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 Contractor 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.

24.3. The Contractor 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

25. **Change in the Applicable Law**

25.1. 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 Services rendered by the Contractor, then the remuneration and reimbursable expenses otherwise payable to the Contractor 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.**

26. **Services and Facilities**

26.1. The Procuring Agency shall make available to the Contractor and the Experts, for the purposes of the Services and free of any charge, the services, facilities and property described in the Terms of Reference, at the times and in the manner specified in the Terms of Reference.

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

F. Payments to the Contractor

27. **Contract Price**

27.1. The price payable shall be in Pakistani Rupees unless otherwise specified in the **SCC**.

28. **Terms and Conditions of Payment**

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

28.2. Unless otherwise stated in the **SCC**, the advance payment shall be made against the provision by the Contractor 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 Contractor have submitted an invoice to the Procuring Agency specifying the amount due.

29. **Quality Control Identifying Defects**

29.1. The principle and modalities of Inspection of the Services by the Procuring Agency shall be as indicated in the **SCC.** The Procuring Agency shall check the Contractor’s performance and notify him of any Defects that are

found. Such checking shall not affect the Contractor's responsibilities. The Procuring Agency may instruct the Contractor 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**.

29.2. A {INSPECTION}

30. **Correction of Defects, and Lack of Performance Penalty**

30.1. The Procuring Agency shall give notice to the contractor 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.

30.2. Every time notice a Defect is given; the contractor shall correct the notified Defect within the length of time specified by the Procuring Agency's notice.

30.3. If the contractor 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 contractor will pay this amount, and a Penalty for Lack of Performance.

31. **Settlement of Disputes Amicable Settlement**

31.1. The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.

32. **Dispute Settlement**

32.1. **Arbitration**

If any dispute of any kind whatsoever shall arise between the procuring agency and the contractor in connection with or arising out of the Contract, including without prejudice to the generality of the foregoing, any question regarding its existence, validity or termination, or the execution of the contract, the parties shall seek to resolve any such dispute or difference by mutual consultation. If the parties fail to resolve such a dispute or difference even after negotiations or mediation, then the dispute shall be referred within fourteen (14) days in writing by either party to the Arbitrator, with a copy to the other party.

Any dispute in respect of which a notice of intention to commence arbitration has been given, in accordance with **GCC sub-clause 32.1**, shall be finally settled by arbitration. Arbitration may be commenced prior to or after completion of the Contract. Arbitration proceedings shall be conducted in accordance with Arbitration Act 1940. Notwithstanding any reference to arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless otherwise agreed. The Procuring Agency shall continue to pay the Contractor any undisputed amounts due under the Contract during the resolution of any dispute.

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: Director General (Field Operations) Faisalabad (Executive Director (Field Operations) North, Lahore), Director General (Field Operations) 500kV Grid Station Gatti, Faisalabad

The Supplier is:

The title of the subject procurement is: SUPPLY & APPLICATION OF ROOM TEMPERATURE VULCANIZING (RTV) SILICONE RUBBER HIGH VOLTAGE COATING MATERIAL (HVIC) ON GRID EQUIPMENT (POST INSULATORS) INSTALLED AT 500kV GRID STATION GATTI FAISALABAD

Number of GC Clause 2

Applicable/Governing Law:

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

Number of GC Clause 3

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 4

Notices:

The addresses for the notices are:

Procuring Agency:

Director General (Field Operations) Faisalabad (Executive Director (Field Operations) North, Lahore), Director General (Field Operations)
500kV Grid Station Gatti, Faisalabad
+92-335-740-9565
dg.fofsd@ngc.gov.pk

Contractor/ Bidder:

[Name, address and telephone number]

The Contractor/ Bidder's Representative(s)

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

Number of GC Clause 6.1

The Authorized Representatives are:

For the Procuring Agency:

Director General (Field Operations) Faisalabad (Executive Director (Field Operations) North, Lahore), Director General (Field Operations)
500kV Grid Station Gatti, Faisalabad
+92-335-740-9565
dg.fofsd@ngc.gov.pk

For the Bidder:

Name: ……

Designation: ……..

Address: ……..

Number of GC Clause 7

Effectiveness of the contract

The Contractor/Bidder shall be effective within ….. days from the date of signature of the Contract by both parties

Number of GC Clause 8

Commencement of Contract:

The Contractor/Bidder shall provide Non-Consultancy Services from the effective date of contract.

Number of GC Clause 10.2

Expiration of Contract:

The time period shall be ……

Number of GC Clause 14

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 16

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 20

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 **0.20%** 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 21

Performance Guarantee:

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

Number of GC Clause 27

Currency of Payment:

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

Number of GC Clause 28

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 29

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.

Delivery & Documents

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

Copies of the packing list identifying contents of each package;

Manufacturer’s or Supplier’s Valid Warranty Certificate;

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

Certificate of Origin.

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

Number of GC Clause 31

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... (full clause unchanged)

ii. At future of negotiation the dispute shall be resolved through mediation...

iii. At failure of mediation, arbitration under Arbitration Act 1940...

iv. Cost sharing equally...

v. Proceedings may commence before/after completion...

Notwithstanding any reference to the arbitration herein, the parties shall continue to perform their respective obligations under the Contract.

Rules of procedure for arbitration proceedings:

Any dispute between the Authority and a Bidder shall be referred to arbitration under the laws of Pakistan including Arbitration Act 1940.

Place of Arbitration and Award:

The arbitration shall be conducted in English language and place shall be Islamabad. The award shall be final and binding.

Bid Securing Declaration

Form 9: Bid Securing Declaration

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

Bid No.:***P218937***

To: **Director General (Field Operations) Faisalabad (Executive Director (Field Operations) North, Lahore), Director General (Field Operations) 500kV Grid Station Gatti, Faisalabad**

We, the undersigned, declare that:

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

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

1. have withdrawn or modified our Bid during the period of Bid Validity specified in the Form of Bid;

2. Disagreement to arithmetical correction made to the Bid price; or

3. having been notified of the acceptance of our Bid by the Procuring Agency during the period of Bid Validity, (i) failure to sign the contract if required by Procuring Agency to do so or (ii) fail or refuse to furnish the Performance Security or to comply with any other condition precedent to signing the contract specified in the Bidding Documents.

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

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

Contract Form

SECTION IX: CONTRACT FORMS

THIS AGREEMENT made the _____ day of _____ 20_____ between **Director General (Field Operations) Faisalabad (Executive Director (Field Operations) North, Lahore), Director General (Field Operations) 500kV Grid Station Gatti, Faisalabad**

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

WHEREAS the Procuring Agency invited Bids for provision of goods, viz., **SUPPLY & APPLICATION OF ROOM TEMPERATURE VULCANIZING (RTV) SILICONE RUBBER HIGH VOLTAGE COATING MATERIAL (HVIC) ON GRID EQUIPMENT (POST INSULATORS) INSTALLED AT 500kV GRID STATION GATTI FAISALABAD (*P218937*)** and has accepted a Bids by the Bidder for the provision of Goods in the sum of *[contract price in words and figures]* (hereinafter called "the Contract Price").

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

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

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

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

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

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

provisions of the contract at the times and in the manner prescribed by the contract.

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

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

Witness to the signatures of the Procuring Agency:

……

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

Witness to the signatures of the Bidder: ……

Integrity Pact

Integrity Pact

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

Contract Number: Contract Value: Contract Title:

Dated:

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

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

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

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

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

Performance Guarantee Form

Integrity Pact

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

Contract Number: Contract Value: Contract Title:

Dated:

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

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

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

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

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

Annexure

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Bidding Forms

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Bidding Forms** (page number: 87)

SRO

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **SRO** (page number: 120)

Special Stipulations

Technical Submission (Vendor)

See Form Under Additional Forms and Documents: **Special Stipulations** (page number: 124)

Special Provisions

Information (Read-Only)

See Form Under Additional Forms and Documents: **Special Provisions** (page number: 125)

Technical Provisions

Information (Read-Only)

See Form Under Additional Forms and Documents: **Technical Provisions** (page number: 135)

Type Test Policy

Information (Read-Only)

See Form Under Additional Forms and Documents: **Type Test Policy** (page number: 149)

SOP For Blacklisting

Information (Read-Only)

See Form Under Additional Forms and Documents: **SOP For Blacklisting** (page number: 165)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Procurement Forms

Contractor's Key Personnel Representative and Their Schedules

1- Project Manager / Project In-charge

BSc/BE Electrical, Mechanical or Chemical Engineering

5 years overall, including 2 years in relevant coating/insulation or electrical maintenance works

1 No.

2- Site Engineer

BSc/BE Electrical or Mechanical Engineering

3 years overall, including 1 year in similar site work

1 No.

3- RTV Coating Supervisor

DAE Electrical, Mechanical or Chemical

3 years in coating application or similar industrial work

1 No.

4- QA/QC Inspector

DAE/BSc in relevant engineering discipline

2 years in inspection, testing and quality control

1 No.

5- HSE / Safety Officer

Relevant technical qualification with recognized safety training (IOSH, NEBOSH or equivalent)

2 years in industrial/electrical safety

1 No.

6- Skilled RTV Coating Applicators

Matric or equivalent, with manufacturer-approved training

1 year in spray coating or similar application; RTV-specific training required

2 Nos.

7- Helpers / Support Staff

Matric or equivalent preferred

Relevant industrial work experience

5 Nos.

See Form Under Additional Forms and Documents: **Contractor's Key Personnel Representative and Their Schedules** (page number: 178)

Financial Resources

The Bidder shall demonstrate access to, or availability of, adequate financial resources, including liquid assets, unutilized bank credit facilities and other acceptable financial means, to meet the cash-flow requirements of the contract.

The minimum financial resources required shall be equivalent to PKR 75 million plus 25% of the Bidder's current work commitments. The Bidder shall submit details of its current work commitments, including the value of ongoing contracts and the outstanding balance of work to be executed, on the prescribed Form included in the Bidding Documents.

The Bidder shall submit a bank certificate confirming the availability of its credit facilities on the prescribed Form. Such credit facilities shall be available and unutilized to the extent claimed by the Bidder.

Credit-line certificates submitted after the bid opening shall not be accepted for qualification purposes.

In the case of a Joint Venture (JV), the JV partners shall collectively demonstrate the full required financial resources. The lead partner shall demonstrate not less than 40% of the required financial resources, while each other JV partner shall demonstrate not less than 25% of the required financial resources.

See Form Under Additional Forms and Documents: **Financial Resources** (page number: 182)

Past Experience and Completed Contracts

The bidder (as main contractor, Management contractor or JV / Consortium partner) shall have successfully executed, during the past ten (10) years, contract(s) involving both:

1. Supply of RTV coating material, and

2. Application of RTV coating material for 132 kV or higher-voltage Grid Station or Transmission Line equipment/ project(s), involving a minimum of 25 million cm2 of surface area or 3500kg of RTV material, on a cumulative basis, covering both supply and application works.

The aforementioned project(s) must have been in operation for at least two (2) years as of the bid opening date.

If the Bidder has executed these contract(s) as a JV partner, he shall have carried out all the activities mentioned here before.

For verification of the past performance, the seller shall submit the copies of the contract agreement for the goods indicated in the supply record of the Bidder pertaining to the specified and comparable equipment/material.

See Form Under Additional Forms and Documents: **Past Experience and Completed Contracts** (page number: 183)

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

Bidders are required to submit details of all litigation, arbitration and other claims whether pending, threatened or resolved in the last five years. The Employer may disqualify bidder in the event that the total amount of pending or threatened litigation, arbitration or other claims represents fifty percent (50%) of the Bidder's net worth.

See Form Under Additional Forms and Documents: **Historical Contract Non-Performance, and Pending Litigation and Litigation History** (page number: 184)

Current Contracts and Their Progress

The bidder shall provide details of all ongoing contracts, indicating the name of the client, contract value, date of award, scheduled completion date, percentage of work/supply completed, and remaining contractual obligations.

The bidder shall also submit documentary evidence of the progress of ongoing contracts, such as performance certificates, progress reports or certificates issued by the respective clients.

The procuring agency shall evaluate the bidder's existing contractual commitments and remaining obligations to assess its capacity to satisfactorily execute the subject procurement within the stipulated delivery period.

See Form Under Additional Forms and Documents: **Current Contracts and Their Progress** (page number: 186)

Financial Capacity and Net Worth Evaluation Form

The Bidder shall submit its audited standalone financial statements for the last three (03) financial years, including Balance Sheet along with Notes to the Accounts, Profit & Loss Account and Cash Flow Statement, duly audited and signed by a Chartered Accountant firm registered with the Institute of Chartered Accountants of Pakistan (ICAP).

The auditor's reports shall comply with applicable ICAP requirements and shall bear a valid and verifiable Unique Document Identification Number (UDIN), wherever applicable.

The Bidder's financial statements shall demonstrate positive Net Worth, calculated as the difference between Total Assets and Total Liabilities, for the latest audited financial year.

In case of a Joint Venture (JV), each JV partner shall submit its own standalone audited financial statements and shall meet the above net worth requirement individually.

See Form Under Additional Forms and Documents: **Financial Capacity and Net Worth Evaluation Form** (page number: 187)

Average Annual Turnover

The Bidder's Income & Expenditure/Profit and Loss Accounts should show minimum average annual turnover for the best three years out of last five years not less than **PKR 75 million**. The Average Annual Turnover may include turnover of affiliates and subsidiaries to the extent of shareholding percentage of the Bidding company provided the turnover is accrued from similar business activity as the Bidding company.

In case of JV, The JV shall collectively demonstrate an average annual turnover of not less than PKR 75 million. The lead partner shall demonstrate at least 40% of the required turnover, i.e., PKR 30 million, while each other JV partner shall demonstrate at least 25% of the required turnover, i.e., PKR 18.75 million.

See Form Under Additional Forms and Documents: **Average Annual Turnover** (page number: 189)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

Additional Forms and Documents

BIDDING FORMS

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Appendix B to
Instructions to Bidders

EVIDENCE OF BIDDER'S / MANUFACTURER'S CAPABILITY

[Note: Bidders to fill following forms to provide information regarding its eligibility and capability]

Form ELI - 1: Bidder's Information Sheet

Bidder's Information	
Bidder's legal name	
In case of a Joint Venture, legal name of each partner	
Bidder's country of constitution	
Bidder's year of constitution	
Bidder's legal address in country of constitution	
Bidder's authorized representative (name, address, telephone number(s), fax number(s), e-mail address)	

Attached are copies of the following documents:.

- ❑ 1. In case of a single entity, articles of incorporation or constitution of the legal entity named above, in accordance with IB 4.1
- ❑ 2. Authorization to represent the firm or Joint Venture named above, in accordance with IB 17.5
- ❑ 3. In case of a Joint Venture, a letter of intent to form a Joint Venture or Joint Venture agreement, in accordance with IB 13.5.

Form ELI - 2: GENERAL INFORMATION & EVIDENCE OF MANUFACTURER'S CAPABILITY

Bidder to provide the following information with the bid and indicate herein its references where this information is available.

Sr. No.	Information to be Supplied	Bid References
1.	Manufacturer's • Name: • Business Address: • Contact Telephone Nos. • Fax No: • E-mail: • Country of Incorporation: • Location and address of manufacturing facilities:	
2.	Full description of factories owned and the annual manufacturing capacities of various items made therein.	
3.	Details of the factory or factories where the offered Goods are proposed to be manufactured. This description should include the facilities and capacities of the particular factories including testing facilities and the processes used in manufacturing and testing. Where parts or components are purchased from outside, the details of equipment purchased and the names and experience record of the suppliers.	
4.	Detailed description of the quality control testing and research facilities. If the Goods are manufactured under license, the name of the licenser and details of the licensing arrangements, such as the duration of the license, the facilities provided to the bidder by the licenser and whether future improvements are available or not, etc. A copy of the license agreement may be attached.	
5.	Names, qualifications and experience of the key technical personnel.	
6.	The time in years since the Manufacturer has been in this business;	

and the time in years since he has been doing work of similar nature: ☐

7. The time in years since the Goods offered are being Manufactured; ☐

and the time in years for which it has been in service; ☐

8. Quantity produced [Sets/Numbers/Km] in last ten (10) years:
   (i) Year 01: _____
   (ii) …….
   (iii) …….
   (iv) …….
   (v) Year 10: _____

9 Manufactured under own License? Yes No

10. Manufactured under License from: _____

11. Manufactured in collaboration with: _____

12 Has Manufacturer R&D Section? Yes No

13 Has Manufacturer a Quality Assurance Plan (QAP) in place? Yes No

14 Is the Manufacturer certified or accredited by an organization? Yes No

15 Name the organization and type of certification/accreditation: _____

16 Is the Manufacturer's testing facilities/laboratory accredited by an organization? Yes No

17 Name the organization and type of certification/accreditation for the laboratory: _____

Note:
Copy of the following document shall be attached:

(a) Quality Assurance Plan (ISO 9001) from the Manufacturer.
(b) Accreditation certificates.

Name of the Manufacturer_____
Signed and stamped by the Manufacturer_____
Signature and Seal of the Bidder_____

Form ELI - 3: Joint Venture Information Sheet

Each member of the Joint Venture must fill out this form separately.

Joint Venture Information	
Bidder's legal name	
Joint Venture Partner's legal name	
Joint Venture Partner's country of constitution	
Joint Venture Partner's year of constitution	
Joint Venture Partner's legal address in country of constitution	
Joint Venture Partner's authorized representative information (name, address, telephone number(s), fax number(s), e-mail address)	
Attached are copies of the following documents: ❑ 1. Articles of incorporation or constitution of the legal entity named above, in accordance with IB 2.1 ❑ 2. Authorization to represent the firm named above, in accordance with IB 17.5	

Form: Credit Line

BANK CERTIFICATE

This is to certify that M/s…… is a reputed company with a good financial standing.

If the contract for namely …… (name of IFB) is awarded to the above firm, we shall be able to provide overdraft/credit facilities to the extent of PKR…… to meet their financial resources requirements for executing the above contract.

Signature of Senior Bank Manager: _____
Name of the Senior Bank Manager: _____
Address of the Bank: _____

Stamp of the Bank

Note: Certificate should be on the letter head of the bank.

- **Change the text as follows for Joint Venture:**

This is to certify that M/s…… who has formed a JV with M/s……and M/s……. for participating in this bid, is a reputed company with a good financial standing.

If the contract for namely ……. (name of IFB) is awarded to the above Joint Venture, we shall be able to provide overdraft/credit facilities to the extent of PKR……to M/s……. to meet the financial resources requirement for executing the above contract.

[This should be given by each of the JV members in proportion to their financial participation.]

Appendix D to

Instructions to Bidders

COMFORT LETTER

Bid for Contract No. _____:_____ [*Title of Contract*]

To:
(Insert Employer Name)

Gentleman,

i. This is to certify that if the subject Contract is awarded to M/s _____ incorporated under the laws of _____ [*insert name of country*] we are able as well as willing to provide / extend unconditional banking facilities including but not limited to opening of letter of credit or making payment through direct payment procedure, retirement of shipping documents, issuance of Electronic Import Form (EIF) for custom clearance purposes etc.
ii. We understand that the issuance of this letter does not create any obligation for NationalGrid.

Signature of Senior Bank Manager: _____

Name of the Senior Bank Manager: _____

Address of the Bank: _____

Stamp of the Bank

- **Change the text under para (i) as follows in case of Joint Venture**

M/s _____ incorporated under the laws of _____ [*insert name of country*] has formed a JV with M/s _____ and M/s _____ for participating in this bid.

i. This is to certify that if the subject Contract is awarded to the above Joint Venture, we are able as well as willing to provide / extend banking facilities including but not limited to opening of letter of credit, making payment through direct payment procedure, retirement of shipping documents, issuance of Electronic Import Form (EIF) for custom clearance purposes etc.
ii. We understand that the issuance of this letter does not create any obligation for NationalGrid.

[*This should be given by each of the JV members*]

Note: Certificate should be on the letter head of the Scheduled Bank in Pakistan.

*[Note: **The requirement of "Comfort Letter" has been included purely for payment purposes to ensure the availability of banking channels for smooth execution of Contract. The "Comfort Letter" is neither a Bank Guarantee nor is required to determine financial soundness of the Bidder, and does not create any legal obligation to bank, but rather is a simple confirmation on bank's letter head that in case of award of Contracts to specific firm, the banking channels will be available for making payment by NationalGrid in favor of Supplier.***

Moreover, a Bank can provide confirmation in its own wording without changing the substance of letter i.e., assuring to provide banking channel if given business]

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

LETTER OF TECHNICAL BID AND SCHEDULES TO BID

Letter of Technical Bid

Schedules to Bid

- Schedule A to Bid: Specific Works Data (**Schedule of Technical data**)
- Schedule B to Bid: Proposed Organization for the Project & Work Methodology
  - Form 1: Site Organization & Method Statement
  - Form 2: Mobilization Schedule
- Schedule C to Bid: Implementation Schedule
- -
- Schedule E to Bid: Manufacturer
- Schedule F to Bid: Country of Origin Declaration Form
- Schedule G-1 to Bid: Deviations from Technical Provisions
- Schedule G-2 to Bid: Deviations from Contractual Conditions
- Schedule H To Bid: Specimen JV Agreement
- Schedule I To Bid: Equipment
- Schedule L to Bid Manufacturer's Authorization
- Schedule K to Bid Undertaking (SOP of Blacklisting)

LETTER OF TECHNICAL BID

Bid Reference No. _____
Package No. _____

_____
_____
(Name of Works)

To:

_____
_____
_____

Gentlemen,

1. Having examined the Bidding Documents including Instructions to Bidders, Conditions of Contract, Specifications, Drawings, Schedule of Prices and Addenda Nos. _____ for the execution of the above-named Works, we, the undersigned, being a company doing business under the name of and address _____
_____
and being duly incorporated under the laws of _____
hereby offer to execute and complete such Works and remedy any defects therein in conformity with the said Documents including Addenda thereto.

2. We understand that all the Schedules attached hereto form part of this Bid.

3. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the amount of …… drawn in the favor of, or made payable to the Employer, …… and valid for a period ….. days beyond the period of validity of Bid.

4. We undertake that Price Schedules as per requirements of the Bidding Documents are enclosed with the Price Bid.

5. We undertake, if our Bid is accepted, to commence the Works and to deliver and complete the whole of the Works comprised in the Contract within the time(s) stated in Preamble to the Conditions of Contract.

6. We agree to abide by this Bid for the period of **180** days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

7. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

8. We undertake, if our Bid is accepted, to execute the Performance Security referred to in Clause 10 of Conditions of Contract for the due performance of

the Contract.

9. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other person or persons making a Bid for the Works.

10. We do hereby declare that our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from eligible countries *[insert the nationality of the Bidder, including that of all parties that comprise the Bidder if the Bidder is a consortium or association, and the nationality of each Subcontractor and Supplier]*.

11. We, including any subcontractors or suppliers for any part of the Contract, do not have any conflict of interest.

12. We are not participating, as a Bidder, in more than one bid in this bidding process.

13. We confirm, if our Bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the Employer. (Please delete in case of Bid from a single firm).

Dated this …… day of …… 20…

Signature ……... in the capacity of ……. duly authorized to sign the Bid for and on behalf of …….
(Name of Bidder in Block Capitals)
(Seal of Bidder)

Bidder's Address
……
……
……

Witness:

Signature:
……
Name: ……

Address:
……
……
……

Occupation
……

SCHEDULE – A TO BID

SPECIFIC PLANT DATA
for RTV Silicone Rubber Insulator Coating

Sr. No.	Information Required	'A'	'B'	'C'
1.	i) Manufacturer's Name & Address)	_____		
	ii) Applicator's Name & Address	_____		
2.	Standards Followed	_____		
	RATINGS			
3.	Method of application	Dip /Spray	_____	_____
4.	Use of Primer for adhesion	Forbidden	_____	_____
5.	Type of Coating	One-Part, RTV	_____	_____
6.	Appearance	Paint	_____	_____
7.	Specific Gravity	1.10-1.25	_____	_____
8.	Color of Coating (Red or any other subject to Engineer's approval)	*	_____	_____
9.	Application Temperature Range, ° C	0 ° -50 ° C	_____	_____
10.	Skin-over time at Standard Conditions, minutes	15	_____	_____
11.	Track free time at Standard Conditions, minutes	15-45	_____	_____
12.	Percent Solids by weight, % 7	70	_____	_____
13.	Dynamic Viscosity. cP (centipoise)	1000-3500	_____	_____
14.	Dielectric Strength, V/mil (ASTM D149)	350-560	_____	_____
15.	Volume Resistivity. Ohm.cm (ASIM D257)	$1x10^{14}$ – $37x10^{14}$	_____	_____
16.	Dissipation Factor at 100 Hz (ASTM D150) 0.01-0.09	0.01-0.09	_____	_____
17.	Tracking Wheel Withstand, hours 1000	1000	_____	_____
18.	Receding Water Contact Angle. degrees, minimum	≥80	_____	_____
	Material			
19.	Dry Arc Resistance, Seconds	180-200	_____	_____
20.	Reinforcing Filler	*	_____	_____
21.	Alumina Trihydrate (ATH) Content	*	_____	_____

22.	UV Absorbent	*	_____	_____
23.	Condensation Catalyst	*	_____	_____
24.	Adhesion Promoter	*	_____	_____
25.	Longevity (Service Life), years	*	_____	_____
	Material Consumption per insulator			
26.	Quantity of RTV coating required for one 100kN Fog Type Disc Insulator, kg, maximum	*	_____	_____
27.	Quantity of RTV coating required for one 100kN Normal Type Disc Insulator, kg, maximum	*	_____	_____
	Composition and Properties			
28.	Dry Film Thickness(DFT), mm, minimum	0.38-0.50	_____	_____
29.	Tolerance (±) of DFT, mm	*	_____	_____
30.	Wet Film Thickness	*	_____	_____
31.	No. of Coats to achieve DFT	*	_____	_____
32.	Shelf life, months	12	_____	_____
33.	No Flashover Warranty, Years	10	_____	_____
34.	Recommended Dew Point Temperature Difference Range, ^{o}C	*	_____	_____
	TYPE TESTS			
35.	Inclined Plane Tracking & Erosion Test as per IEC 60587	Yes	_____	_____
36.	Accelerated Weathering Test (1000 Hours) as per IEC 61109	Yes	_____	_____
37.	Artificial Pollution Test by Salt Fog Method as per IEC 60507	Yes	_____	_____
38.	Angle of Hydrophobicity as per IEC TS 62073	Yes	_____	_____
39.	Hydrophobicity Recovery by Corona Test Method	Yes	_____	_____
40.	Dry Arc Resistance as per ASTM D495	Yes	_____	_____
41.	Dielectric Strength Test as per ASTM D149a	Yes	_____	_____
42.	Volume & Surface Resistivity Test as per ASTM D257	Yes	_____	_____
43.	Dissipation Factor Test as per ASTM D150	Yes	_____	_____

Notes:
'A'– Purchaser Specified Data/Parameters
'B'– Bidder/Supplier/Manufacturer/Contractor Proposed Data/parameters
'C'– Remarks supporting the proposed deviation in Column B

(*)– Data/Parameters to be provided/proposed by the Bidder/Supplier/Manufacturer/Contractor in Column
*All values shall be in metric system.

Moreover, complete set of technical information, description data, literature and drawings as required for both Lots. This will include but not be limited to the following:

(i) A sufficient number of drawings, photographs, catalogues, illustrations and such other information as is necessary to illustrate clearly the significant characteristics such as general construction dimensions and other relevant information about the Goods/Plant to be furnished.
(ii) Details of equipment and machinery with capacity.
(iii) The approximate weight and dimension of the main components, a brief description of the principal materials and fabrication processes to be used and recommended methods of assembly.

Signed & Stamped of Manufacturer: ……
Signed & Stamped of Signatory to Bid: ……

SCHEDULE – B TO BID

PROPOSED ORGANIZATION FOR THE PROJECT & WORK METHODOLOGY

FORM 1: SITE ORGANIZATION & METHOD STATEMENT

In this form, bidder shall provide the ITS Organization Chart indicating all positions that will be employed in Head Office, Site Office, etc. (whichever applicable) which shall also include key positions indicated in Technical Provisions. Bidder shall also mention the job description of each key position.

The Bidder is required to submit a narrative outlining the method of performing the Works. The narrative should indicate in detail and include but not be limited to:

- The sequence and methods in which he proposes to carry out the RTV application works, including the number of shifts per day and hours per shift, he expects to work.
- The procedure for transportation of equipment and materials to the site.
- The Contractor shall provide description of his construction camp's facilities and staff housing requirements.
- The Contractor shall be responsible for pumps, electrical power, water and electrical distribution systems, and sewerage system including all fittings, pipes and other items necessary for servicing the Contractor's construction camp and staff housing facilities. The Bidder shall list or explain his plans for providing these facilities for the service of the Contract as follows:

1. Site Preparation (clearing, land preparation, etc.).
2. Provision of Services.
   a) Power (expected power load, etc.).
   b) Water (required amount and system proposed).
   c) Sanitation (sewage disposal system, etc.).
3. Construction of Facilities
   a) Contractor's Office, Workshop and Work Areas (areas required and proposed layout, type of construction of buildings, etc.).
   b) Warehouses and Storage Areas (area required, type of construction and layout).
   c) Housing and Staff Facilities (Plans for housing for proposed staff, layout, type of construction, etc.)
4. Other Items Proposed (Security services, etc.).

Initials of Signatory to Bid:……

SCHEDULE – B TO BID

FORM 2: MOBILIZATION SCHEDULE

In this form, the bidder shall provide details regarding mobilization of its team along with detailed timeline in accordance with Implementation Schedule (Schedule C to Bid).

Initials of Signatory to Bid:……

SCHEDULE – C TO BID

IMPLEMENTATION SCHEDULE

Bidder shall provide an implementation Schedule in a Gantt Charts/bar-chart/CPM/PERT form showing the sequence of work items by which he proposes to complete the work of the entire Contract. The Schedule should indicate the sequence of work items and the period of time during which he proposes to complete the Works including the activities like schedule of submittal of Drawings / Technical Data, ordering and procurement of materials, inspections of RTV material/ FATs, its delivery timelines, cleaning of equipment & application of RTV material, final inspection or any other work/ item to be supplied under the Contract.

Initials of Signatory to Bid:……

SCHEDULE – E TO BID

MANUFACTURER

Form MANUFACTURER: Proposed Manufacturers for Major Items of Plant and Services

The following manufacturer is proposed for carrying out the item of the facilities indicated. Bidder shall not propose more than one manufacturer for RTV material.

Major equipment/Items of Plant to be supplied

Sr. #	Name of Equipment/ Material	Name of Manufacturer	Nationality of Manufacturer	Type/ Designation of proposed Equipment/ Material	Name of Type Testing Laboratory	Type Test Report No.
1.						
2.						
3.						
4.						
5.						

Note:

1. Bidder shall provide the list of all material it is offering along with complete information of manufacturer.
2. The final selection of the Manufacturer for each equipment shall be at the discretion of the Employer.
3. No change of manufacturer shall be allowed.
4. The truthfulness and accuracy of the statement as to the experience of Manufacturer is guaranteed by the Bidder. The Employer's judgment shall be final as to the evaluation of the experience of Manufacturer submitted by the Bidder.
5. Statement of similar works shall include description, location & value of work, year completed and name & address of the clients.
6. This may include manufacturer(s) who are proposed here and their relevant details to be provided accordingly including make, capacity and salient features to make it particularly suitable for the works. The technology used should also be detailed adequately.

Name of Bidder_____
Signatures of the bidder _____

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SCHEDULE – F TO BID

Country of Origin Declaration Form

Name of Bidder _____ Tender Number _____ Page ___ of ___

Item	Description	Country of Origin

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SCHEDULE – G-1 TO BID

DEVIATIONS
FROM TECHNICAL PROVISIONS

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

Sr. No.	Clause No. / Section No.	Deviations/Clarifications

[Note**:** Attach additional sheets, if necessary]

Initials of Signatory to Bid:……

SCHEDULE – G-2 TO BID

DEVIATIONS FROM CONTRACTUAL CONDITIONS

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

Sr. No.	Clause No. / Section No.	Deviations/Clarifications

Note: Attach additional sheets, if necessary

Initials of Signatory to Bid:……

SCHEDULE –H TO BID

JV AGREEMENT

THIS LETTER OF INTENT signed on this……. day of…….. Two Thousand and ……..... by……. a company incorporated under the laws of …… and having its Registered Office at ..... (hereinafter called the "Party No.1" which expression shall include its successors, executors and permitted assigns) and M/s……a company incorporated under the laws of…… and having its Registered Office at…… (hereinafter called the "Party No.2" which expression shall include its successors, executors and permitted assigns) and M/s.. .. .. a Company incorporated under the laws of…….. and having its Registered Office at……. (hereinafter called the "Party No.3" which expression shall include its successors, executors and permitted assigns) for the purpose of making a bid and entering into a contract [hereinafter called the "Contract" {in case of award)] against the Specification No…….for _____ associated with _____ of …….. (hereinafter called the "**Employer**").

WHEREAS the Party No.1, Party No.2 and Party No.3 intend to enter into a Joint Venture Agreement

AND WHEREAS the Employer invited bids as per the above mentioned Specification for the design, manufacture, Supply of Equipment Materials stipulated in the bidding documents under _____ (Lot #) _____ associated with _____.

AND WHEREAS Clause 2, Section-ITB and 'Qualification & Evaluation Requirement of the Bidder'(clause 13, 24 & 25 of ITB), and technical provisions forming part of the bidding documents, inter-alia, stipulates that two or more qualified partners, meeting the requirements of Clause 2, Section-ITB and 'Qualification & Evaluation Requirement of the Bidder'(clause 13, 24 & 25 of ITB), as applicable may bid, provided, they submit a Letter of Intent to enter into Joint Venture Agreement and the Joint Venture Partners fulfill all other requirements under Clause 2, Section-ITB and 'Qualification & Evaluation Requirement of the Bidder'(clause 13, 24 & 25 of ITB), and technical provisions forming part of the bidding documents and in such a case, the Letter of Bid (Technical and Price Bid Form) shall be signed by all the proposed partners so as to legally bind all the Partners of the Joint Venture, who will be jointly and severally liable to perform the Contract by entering into Joint Venture Agreement a per Bidding Forms of the Bidding Documents which will be legally binding on all partners and all obligations hereunder.

The above clause further states that this Letter of Intent shall be attached to the bid and the Contract performance guarantee will be as per the format enclosed with the bidding document without any restrictions or liability for either party.

AND WHEREAS the bid is being submitted to the Employer vide proposal No……..dated…... by Party No.1 based on this Letter of Intent between all the parties; under these presents and the bid , has been signed by all the parties.

NOW THIS UNDERTAKING WITNESSETH AS UNDER:

In consideration of the above premises and agreements all the parties of this Letter of Intent do hereby declare and undertake:

1. In requirement of the award of the Contract by the Employer to the Joint Venture Partners, we, the Parties do hereby undertake that M/s…… the Party No.1, shall act as Lead Partner and further declare and confirm that we the parties to the Joint Venture shall jointly and severally be bound unto the Employer for the successful performance of the Contract and shall be fully responsible for the design, manufacture, Supply, and successful performance of the equipment in accordance with the Contract for which we shall enter into Joint Venture Agreement as per Bidding Forms of the Bidding Documents which will be legally binding on all partners:

2. If the Contract is awarded to Joint Venture then in case of any breach or default of the said Contract by any of the parties to the Joint Venture, the party(s) will be fully responsible for the successful performance of the Contract and to carry out all the obligations and responsibilities under the Contract in accordance with the requirements of the Contract.

3. Further, if the Employer suffers any loss or damage on account of any breach in the Contract or any shortfall in the performance of the equipment in meeting the performances guaranteed as per the specification in terms of the Contract, the Party(s) of these presents will promptly make good such loss or damages caused to the Employer, on its demand without any demur. It shall not be necessary or obligatory for the Employer to proceed against Lead Partner to these presents before proceeding against or dealing with the other Party(s), the Employer can proceed against any of the parties who shall be jointly and severally liable for the performance and all other liabilities/obligations under the Contract to the Employer.

4. The financial liability of the Parties of the Deed of Undertaking to the Employer in the event of award of Contract on the Joint Venture, with respect to any of the claims rising out of the performance or non-performance of the obligations set forth in the Deed of Undertaking, read in conjunction with the relevant conditions of the Contract shall, however not be limited in any way so as to restrict or limit the liabilities or obligations of any of the Parties of the Deed of Undertaking.

5. It is expressly understood and agreed between the Parties to this Letter of Intent that the responsibilities and obligations of each of the Parties shall be as delineated in Annexure attached with this Letter of Intent. It is further undertaken by the parties that the above sharing of responsibilities and obligations shall not in any way be a limitation of joint and several responsibilities of the Parties under the Contract in the event of award on Joint Venture.

6. It is also understood that this Letter of Intent is provided for the purposes of undertaking joint and several liabilities of the partners to the Joint Venture for submission of the bid and performance of the Contract if awarded and that this Letter of Intent shall not be deemed to give rise to any additional liabilities or obligations, in any manner or any law, on any of the Parties to this Letter of Intent or on the Joint Venture, other than the express provisions of the Contract.

7. This Letter of Intent shall be construed and interpreted in accordance with the provisions of the Contract.

8. In case of an award of a Contract, we the parties to this Letter of Intent do hereby agree that we shall enter into Joint Venture Agreement as per Bidding Forms of the Bidding Documents which will be legally binding on all partners and we shall be jointly and severally responsible for furnishing a Contract performance security from a bank in favour of the Employer in the currency/currencies of the Contract.

9. It is further agreed that this Letter of Intent shall be irrevocable and shall form an integral part of the bid. It shall be effective from the date first mentioned above for all purposes and intents.

IN WITNESS WHEREOF, the Parties to this Letter of Intent have through their authorized representatives executed these presents and affixed Common Seals of their companies, on the day, month and year first mentioned above.

Common Seal of ……. has been affixed in my/ our presence pursuant to Board of Director's Resolution dated …….

For Lead Partner (Party No.-1)
For and on behalf of M/s ……..

Name ……..
Designation …….

Signature …….

(Signature of the authorized representative)

WITNESS :

I. ……

II. ……

Common Seal of ……. has been affixed in my/ our presence pursuant to Board of Director's Resolution dated …….

For Party No.-2
For and on behalf of M/s……..

Name ……..

(Signature of the authorized representative)

Designation …….

Signature …….

WITNESS :

I. ……

II. ……

Common Seal of ……. has been affixed in my/ our presence pursuant to Board of Director's Resolution dated …….

For Party No.-3
For and on behalf of M/s. ……..

Name ……..

Designation …….

Signature …….

(Signature of the authorized representative)

WITNESS :

I. ……
II. ……

Notes:

1. In the event that the successful Bidder is a joint venture formed of two or more companies, the Employer requires that the parties to the joint venture accept joint and several liabilities for all obligations under the Contract.
2. The maximum number of J.V. partners is three (3).

(In the event that the successful Bidder is a joint venture formed of two or more companies, the Employer requires that the parties to the joint venture accept joint and several liabilities for all obligations under the Contract.)

SCHEDULE –I TO BID

Equipment

The Bidder shall provide adequate information and details to demonstrate clearly that it has the capability to meet the equipment proposed to be used in carrying out the Works at Site, including number of each kind, make, type, capacity of all equipment, working condition, which shall be deployed by him for cleaning of Grid Equipment & application of RTV coating material, including requirements indicated in Technical Provisions, using the Forms below. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.

Item of Equipment		
Equipment Information	**Name of manufacturer**	**Model and power rating**
	Capacity	**Year of manufacture**
Current Status	**Current location**	
	Details of current commitments	
Source	**Indicate source of the equipment** ☐ **Owned** ☐ **Rented** ☐ **Leased** ☐ **Specially manufactured**	

Omit the following information for equipment owned by the Bidder.

Owner	**Name of owner**	
	Address of owner	
	Telephone	**Contact name and title**
	Fax	**Telex**
Agreements	**Details of rental/lease/manufacture agreements specific to the project**	

Schedule – K TO BID

UNDERTAKING OF ACCEPTANCE OF AND COMPLIANCE WITH THE SOP FOR BLACKLISTING OF CONTRACTORS

A) I, _____ *[insert name and position of authorized signatory],* being duly authorized by _____ *[insert name of the Bidder/members of joint venture ("JV") in case the Bidder is a JV]* (hereinafter referred to as the "Bidder") to execute this Undertaking of Acceptance of and Compliance with the SOP for Blacklisting of Contractors attached herewith (hereinafter referred to as the "SOP"), hereby certify on behalf of the Bidder that we, _____*[insert name of the Bidder]* have read and accept the provisions of the SOP.

B) I further certify, on behalf of the Bidder, that:

(i) this Bid has been prepared and submitted in full compliance with the terms and conditions set forth in the SOP;

(ii) we have not, directly or indirectly, taken any action which is or constitutes inter alia a corrupt, fraudulent, collusive or coercive act or practice in violation of the SOP; and

(iii) we shall continue to comply with the terms and conditions of the SOP as and when amended, during period of evaluation of Bids and, in case we are selected for award of Contract, upto satisfactory completion of the Contract.

_____

Authorized Signatory
For and on behalf of *[insert name of the Bidder]*
Date:

Schedule-L to Bid

MANUFACTURER'S AUTHORIZATION

Date: _____

Bid Reference No.: _____

To: _____
(Name of Employer)

WHEREAS we_____ who are official Manufacturer of _____ (name & description of Goods offered) having factories at (address of factory)_____ do hereby authorize M/s _____ (Name and address of Bidder) to submit a Bid in relation to the Invitation for Bids indicated above, the purpose of which is to provide the following Goods manufactured by us and to subsequently negotiate and sign the Contract:

Description of Goods: _____
_____
_____

We hereby extend our full guarantee and warranty in accordance with Clause 1.1.11 of the General Conditions of Contract, with respect to the Goods offered by the above firm in reply to this Invitation for Bids

Name: _____

In the capacity of: _____

Signed: _____

Duly authorized to sign the Authorization for and on behalf of _____
(Name of Manufacturer)

Date: _____

Note: This letter of authority should be on the letter head of the Manufacturer and should be signed by a person competent and having the Power of Attorney to legally bind the Manufacturer.

FORM/LETTER OF PRICE BID
AND
SCHEDULES TO BID

Form of Price Bid

Schedules to Bid

- Schedule J to Bid: Integrity Pact

SCHEDULE OF PRICES

- Preamble to Schedule of Prices
- Schedule of Prices

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

LETTER OF PRICE BID

Bid Reference No.: ……
Package No.: ……

……
…… ……
[Name of Works]

To:
……
……
……

Gentlemen,

1. Having examined the Bidding Documents including Instructions to Bidders, Conditions of Contract, Specifications, Drawings, Schedules to Bid, Schedule of Prices and Addenda Nos. ……. for the execution of the above-named Works, we, the undersigned, being a company doing business under the name of and address …… ……. and being duly incorporated under the laws of …….. hereby offer to execute and complete such Works and remedy any defects therein in conformity with the said Documents including Addenda thereto for the Total Bid Price comprising of Local Currency Component of Pak Rupees …….. (Rs. …….) or such other sum as may be ascertained in accordance with the said Documents.

2. We understand that all the Schedules attached hereto form part of this Bid.

3. We undertake, if our Bid is accepted, to commence the Works and to deliver and complete the whole of the Works comprised in the Contract within the time(s) stated in Preamble to the Conditions of Contract.

4. We agree to abide by this Bid for the period of ……. days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

5. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

6. We undertake, if our Bid is accepted to execute the Performance Security referred to in Clause 10 of Conditions of Contract for the due performance of the Contract.

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

8. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other person or persons making a Bid for the Works.

9. We confirm, if our Bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the Employer. (Please delete in case of Bid from a single firm).

Dated this ……. day of …….. 20___…

Signature …….. in the capacity of ……duly authorized to sign the Bid for and on behalf of ……
(Name of Bidder in Block Capitals)

(Seal of Bidder)

Bidder's Address
……
……

Witness:

Signature: ……
Name: ……
Address:
……
……
Occupation ……

SCHEDULE – J TO BID

(INTEGRITY PACT)

[To be filled and signed by the Bidder]

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 No._____ Dated _____
Contract Value: _____
Contract Title: _____

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

[name of Supplier] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts 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 rights and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

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

Name of Buyer: ……	Name of Seller/Supplier: ……
Signature: ……	Signature: ……
[Seal]	[Seal]

S. R. O. 592(I)/2022.—In exercise of powers conferred by Section 27 of Public Procurement Regulatory Authority Ordinance, 2002 (No. XXII of 2002), the Public Procurement Regulatory Authority is pleased to make the following regulations, namely :—

1. **Short title and commencement.**—(1) The regulations may be called as Declaration of Beneficial Owners' Information of Public Procurement Contract Awarded Regulations, 2022.

(2) They shall come into force at once.

2. **Definations.**—(1) In these Regulation unless, there is anything repugnant in the subject or context:

(a) "Company" means a company formed and registered under the company law and includes but not limited to private limited company, public limited company, firm, association of persons or sole proprietorship or any other form of business organization.

(b) [1]"Beneficial Owner (BO)" means,—

(i) natural person who ultimately owns or controls the bidder's company and / or the natural person on whose behalf a transaction is being conducted; or

(ii) natural person who exercise ultimate effective control over a legal person or legal arrangement.

---

[1] The definition of "Beneficial owner" adopted from the Anti-Money Laundering Act, 2010.

(c) "Public Procurement Contract (PPC)" means the contract awards under Public Procurement Regulatory Authority Ordinance, 2002, Public Procurement Rules, 2004 and the Regulations.

(2) The expressions used but not defined in these Regulations shall have the same meaning as are assigned to them in the Public Procurement Regulatory Authority Ordinance, 2002, Public Procurement Rules 2004 and the Regulations.

3. **Scope.**—These Regulaions shall extent to the whole of Pakistan and shall be applicable to all the procuring agencies within or outside Pakistan.

4. **Declaration of Beneficial Ownership Information.**—All procuring agencies while engaging in public procurement contracts worth Rs. 50 Million and above shall make a mandatory provision of beneficial ownership information of the company in the said contracts as per prescribed Performa **(Annexure-I)** in accordance with provisions of Forms-42, 43 and 44 of the Securities & Exchange Commission of Pakistan.

5. **Enforcement Mechanism of Beneficial Ownership Information.**—(1) Subject to regulation 4, the procuring agencies while engaging in public procurement contract awards shall publicise the beneficial ownership information of the company on PPRA's website.

(2) In case of failure to provide the required imformation of the beneficial ownership by the company or submission of false or partial information, the procuring agency shall:

i. Blacklist the said company in accordance with rule 19(1)(a) of Public Procurement Rules, 2004,

ii. Reject the bid of the said company:

Provided that may object or class of objects procured in contravention of any provision of these regulations shall amount to mis-procurement.

(3) In case the procuring agency fails to obtain the requird information as per prescribed proforma **(Annex-I)** from prospective bidder during procurement process and the procuring agency enters into a contract with the said bidder then the managing Director (PPRA) may declare such procurement process as mis-procurement and blacklist the said bidder.

[No. 7(61)/PPRA.sectt./PPRA/2022.]

ALI TEMUR,
Director (Coord & Estab).

ANNEXURE: I

Declaration of Ultimate Beneficial Owners Information for Public Procurement Contracts.

1. Name
2. Father's Name/Spouse's Name
3. CNIC/NICOP/Passport No.
4. Nationality
5. Residential address
6. Email address
7. Date on which shareholding, control or interest acquired in the business.
8. In case of indirect shareholding, control or interest being exercised through intermediary companies, entries or other legal persons or legal arrangements in the chain of ownership or control, following additional particulars to be provided:

1	2	3	4	5	6	7	8	9	10
Name	Legal form (company/Limited Liability Partnership/ Association of Persons/Single Member Company/partnership Firm/Trust/Any other individual, body corporate (to be specified)	Date of incorporation/ registration	Name of registering authority	Business Address	Country	Email address	Percentage of shareholding, control or interest of BO in the legal person or legal arrangement	Percentage of shareholding, control or interest of legal person or legal arrangement in the Company	Identify of natural person who ultimately owns or controls the legal person or arrangement

9. Information about the Board of Directors (details shall be provided regarding number of shares in the capital of the company as set opposite respective names).

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1	2	3	4	5	6	7	8
Name and surename (In Block Letters)	CNIC No. (in case of foreigner, Passport No)	Father's/Husband's Name in full	Current Nationality	Any other Nationality (ies)	Occupation	Residential address in full or the registered/ principal office address for a subscribers other than natural person	Number of shares taken by cash subscriber(in figures and words
			Total numbers of shares taken (in figures and words)				

10. Any other information incidental to or relevant to Beneficial Owner(s).

Name and signature

(Person authorized to issue notice on behalf of the company)

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SPECIAL STIPULATIONS
Conditions of Contract

1.	Engineer's Authority to issue Variation in emergency	-	As per NGCP BOFP revised 2025.
2.	Law Applicable	GCC Clause 2 / SCC	The law to be applied is the law of Islamic Republic of Pakistan.
3.	Amount of Performance Security	GCC Clause 21.1–21.3 / SCC	10% of Contract Price stated in the Letter of Acceptance.
4.	Time for Furnishing Program	-	Within 30 days from the date of receipt of Letter of Acceptance.
5.	Minimum amount of third-party Insurance	GCC Clause 17 / SCC	Rs. 1,000,000 per occurrence with number of occurrences unlimited.
6.	Time for Commencement	-	Within 14 days from the date of receipt of the letter of acceptance.
7.	Time for Completion	-	60-Days from the date of Commencement.
8.	a) Amount of Liquidated Damages	GCC Clause 20 / SCC	0.05% for each day of delay in completion of the Works subject to a maximum of 10% of Contract Price stated in the Letter of Acceptance.
	b) Amount of Bonus	-	Not Applicable
9.	Defect Liability Period	GCC Clause 29–30 / SCC	365 days from the effective date of Taking Over Certificate.
10.	Limit of Retention Money	Payment Clause / SCC	10% of Contract Price stated in the Letter of Acceptance.
11.	Minimum amount of Interim Payment Certificates (Running Bills)	Payment Clause / SCC	Not Applicable
12.	Payment Schedule.	Payment Clause / SCC	Payment shall be made upon completion of the entire work, subject to inspection, certification, and fulfillment of contractual requirements
13.	Mobilization Advance (Interest Free)	Payment Clause / SCC	Not Applicable

SPECIAL PROVISIONS

The following Special Provisions shall be read in conjunction with the General Conditions of Contract (GCC), Particular Conditions of Contract (PCC), Technical Specifications, Schedule of Requirements and Bill of Quantities (BOQ). In case of any discrepancy, the order of precedence stipulated in the Contract shall apply.

1 SCOPE OF WORKS:

1.1 Procurement/manufacturing and supply of approved Room Temperature Vulcanizing (RTV) Silicone Rubber High Voltage Insulator Coating (HVIC) material/compound conforming to the Technical Specifications.

1.2 Packing, loading, insuring, forwarding, transportation, supply, delivery, unloading, mobilizing of RTV Silicon Rubber High Voltage Insulator Coating (HVIC) material/compound.

1.3 Inspection, cleaning and washing of existing post insulators installed on grid station equipment, including removal of dust, dirt, oil, grease, salt deposits and other contaminants

1.4 Application of RTV silicone rubber coating on the specified porcelain post insulators of grid equipment, ensuring uniform coverage and compliance with the specified coating thickness and quality requirements.

1.5 Provision of all necessary manpower, skilled applicators, supervisors, tools, plants, equipment, machinery, consumables, safety appliances and other facilities required for satisfactory execution of the work

1.6 Conducting required inspections, quality-control checks and tests before, during and after application of RTV coating

1.7 Protection of adjacent equipment, metal fittings, terminals and other components against contamination or accidental coating application.

1.8 Preparation and submission of site-wise completion reports, inspection records, test reports and other relevant documentation.

1.9 Collection, packing, transportation and delivery of dismantled/unusable material, waste material and surplus RTV coating material to the designated NGC stores, wherever directed by the Engineer-in-Charge

1.10 Other items not specifically mentioned in this Specification but are required for the successful completion of the package.

2 SUBMISSION OF BAR CHARTS/ WORK METHDOLOGY:

The Contractor will submit bar charts outlining the sequence and methods to carry out the Works, including the number of crews/gangs and shifts per day and hours per shift keeping in view the shutdown duration as specified in Schedule of Shutdown duration, key personnel to be deputed for this specific project, number of crews/gangs, type of T&Ps and facilities and other services to be used.

3 AVAILABILITY OF SHUTDOWNS:

3.1 The works mentioned above will be carried out during approved Shutdowns on respective Grid Station Equipment from ISMO.

3.2 The contractor will submit schedule for shutdowns to Director General (FO)

North, Faisalabad, keeping in view the shutdown duration schedule/delivery schedule and after completion of one equipment/ group/T/Line will get notice to proceed perusal to clause hereafter.

3.3 Shutdowns on Grid Equipment will be arranged by Field Operations (North) (NationalGrid's Formation) and contractor will coordinate with the Field Operations (North) for obtaining the shutdowns.

3.4 The contractor will depend on the availability of shutdowns and accordingly, will deploy sufficient skilled manpower for completion of the work in the allotted shutdown period. It shall also be ensured that contractor shall complete the cleaning/washing/application of RTV Coating of Equipment Insulator Surface within the stipulated shutdown period as per system constrains.

3.5 Contractor shall deploy adequate man power along with a supervisor at each site, so as to complete the work within stipulated time.

3.6 Contractor should have valid Permit to Work (PTW) throughout working period and contractor will be required to work on the PTW specified. Contractor should ensure all the safety precautions during execution of works.

4 CO-ORDINATION:

4.1 The contractor has to remain in constant touch with the Engineer-in-Charge regarding availability of required outages and to prepare an advance schedule thereof. The Engineer-in Charge for the work shall be recommended by Director General (Field Operations) North Faisalabad.

4.2 The contractor shall have to obtain Permit to Work (PTW) on day-to-day basis which will be issued by Field Operations office for specific time duration to the authorized Engineer approved by Engineer-in-Charge.

4.3 Failure to return the permit within the stipulated time period will be viewed seriously. All care shall be taken to return the permit on time.

4.4 The contractor shall have to establish proper co-ordination for the assigned work with EMPLOYER and other agencies.

5 ARRANGEMENTS OF T&P AND OTHER MATERIAL:

5.1 Site / warehouse, electricity, water and all allied / necessary logistics and arrangements for execution of entire work under this contract will be the responsibility of the contractor. No additional amount will be given to contractor except quoted cost.

5.2 The contractor shall arrange himself all tools and plants but not limited to including Bucket crane, discharge rod, equipment, Safety appliances, consumables, transportation, Store cum erection and transient insurance of insulators, Labor and other items in sufficient quantity as may be required for execution of work at his own Risk & Cost. Employer will not pay anything

extra except the rates quoted as per the bidding documents and accepted by Employer.

6 MOBILIZATION:

6.1 Quick mobilization & execution of the work in the shutdown period is the essence of the contract. If for any reason, the period of shutdown has to be cut short or changed, the work shall have to be executed according to the new time schedule provided to the contractor for which deployment of additional gangs and T&P etc. shall be arranged by the contractor without any additional cost to EMPLOYER.

6.2 The contractor shall have to mobilize gangs at a short notice i.e. (in 2-3 days' notice). It is the responsibility of the contractor to keep himself in contact with Engineer -in- charge regarding availability of shutdown/date of the execution of work. The Engineer-in Charge for the work shall be recommended by Employer/Director General (Field Operations) North Lahore. The contractor shall engage adequate number of gangs so as to complete the entire work in the allotted shutdown period.

6.3 The contractor shall deploy additional Manpower, Machinery, Material etc., as and when considered necessary by the Engineer-in-charge or his representative, without any additional liability on any reason whatsoever.

6.4 The contractor shall ensure that while executing the said work, no damage/tampering is done to EMPLOYER's property like porcelain insulators, conductors, and Hardware Fittings, switch yard equipment's etc. otherwise the cost will be recovered as per assessment of EMPLOYER.

7 NOTICE TO PROCEED:

7.1 Upon completion of RTV job of one site, the plant or any part thereof shall be delivered only upon an Authorization in writing (herein after called the "Notice to proceed") and obtained by the contractor from the project Manager stipulating that the plant or any thereof may be delivered to next site. The Notice to Proceed will be issued by the project Manager on the contractor's valid application for request for "Notice to Proceed".

8 WASTAGE/BREAKAGE:

8.1 No breakage/ damage of the any NationalGrid equipment/ Structure or insulator will be allowed.

8.2 Recovery shall be made for damaged Equipment/ insulators/ Structure during coating/cleaning works as per prevailing market rate from contractor bills along with GST etc.

8.3 Utmost care has to be taken while loading & Unloading of T&Ps / materials handling T&Ps /materials, hoisting, straining, suspending, tools & plants, insulators etc. Any loss or damage arising out of mishandling of the

T&P/material, negligence and /or because of carelessness or lack of knowledge of contractor's employees shall be to contractor's account. EMPLOYER shall be at liberty to recover such damages from the contractor out of outstanding dues, Contract performance guarantee or any others means available with the EMPLOYER.

8.4 Any damages to the EMPLOYER property such as insulators, conductor, hardware fittings, switchyard equipment, cross-arm, etc. will have to be rectified by replacing the damaged items by the contractor; otherwise, the cost will be recovered as per the loss assessment by EMPLOYER.

9 SAFETY:

9.1 The contractor shall provide all Personnel Protective Equipment (PPE) like safety belt, safety helmets, hand gloves, earthing arrangement etc. to all his workers. Entire responsibility shall be of contractor that deployed personnel follow Safety Plan and use Personal Protective equipment.

9.2 The contractor shall make proper earthing arrangement at each equipment and other necessary points where RTV application is being taken up.

9.3 The contractor shall ensure the use of safety apparatus by all laborers/supervisors during execution of work. It is the responsibility of the contractor to execute the entire job without any accident/mishaps.

9.4 All safety rules regarding human life are to be observed by the contractor.

10 INSURANCE:

10.1 The contractor has to obtain workman compensation Insurance policy from any of the nationalized Insurance Co. covering all the risk factors for the labor deployed on job. The policy is to be obtained prior to commencement of work. It will be contractor' responsibility to maintain adequate insurance coverage at all times during the period of contract. The rate quoted should be inclusive of total premium amount for the said policy. Employer will not reimburse the premium paid towards the policy. Contractor has to submit workmen compensation insurance policy before commencement of work.

10.2 Insurance such as transit insurance of materials, third party & workmen insurance, insurance of tools & tackles and plant & equipment or any other insurance for erection shall be arranged by the Contractor at his cost and expense.

10.3 The Contractor at his cost shall arrange, secure and maintain all insurance as may be pertinent to the works and obligatory in terms of law against all perils and the responsibility to maintain adequate insurance coverage at all times during the period of contract shall be of the Contractor alone. The Contractor's failure in this regard shall not relieve him of any of his contractual responsibilities and obligations.

10.4 The perils required to be covered under the insurance shall include all risks,

but not limited to fire and allied risks, miscellaneous accidents, workman compensation risks, loss or damage in transit, theft, pilferage, riot and strikes and malicious damages, civil commotions, weather conditions, accidents of all kinds etc. The Contractor shall be responsible for the safety and security of the employees of the Contractor & his Sub-contractors throughout execution of the works.

11. QUALITY OF RTV COATING MATERIAL AND DOCUMENTATION

11.1 The Contractor shall supply RTV Silicone Rubber High Voltage Insulator Coating material strictly in accordance with the approved Technical Specifications and manufacturer's declared performance parameters.

11.2 The Contractor shall submit the following documents for the offered RTV coating material:

a. Technical Data Sheet (TDS).

b. Safety Data Sheet (SDS/MSDS).

c. Certificate of Analysis (CoA) for each manufacturing batch.

d. Manufacturer's quality assurance certificate.

e. Manufacturer's test reports and relevant independent laboratory test reports as specified in the Technical Specifications.

f. Country of origin and manufacturer's details.

g. Batch/lot number, manufacturing date and expiry date.

h. Recommended storage conditions and shelf life.

i. Application procedure and recommended surface preparation method.

j. Recommended coating thickness and coverage rate.

k. Curing/drying requirements.

l. Manufacturer's warranty and product guarantee.

11.3 RTV coating material shall be supplied in original, unopened and properly sealed containers bearing the manufacturer's name, product identification, batch number, manufacturing date and expiry date.

11.4 The material shall have adequate remaining shelf life at the time of delivery as specified in the Technical Specifications.

11.5 No change in manufacturer, product formulation, grade or source of supply shall be permitted without prior written approval of the Employer.

11.6 The Employer reserves the right to inspect the supplied material, verify the submitted documentation and obtain samples for testing through an approved laboratory.

11.7 Any material found defective, expired, damaged, contaminated or not conforming to the Technical Specifications shall be rejected and replaced by the Contractor at its own cost.

11.8 Acceptance of the supplied material shall not relieve the Contractor of its responsibility for satisfactory application, performance and warranty obligations.

12. INSPECTION AND TESTING OF RTV COATING MATERIAL

12.1 The RTV coating material shall be subject to inspection and testing in accordance with the approved Technical Specifications before acceptance.
12.2 The Contractor shall submit the required manufacturer's test reports (Type Tests) and certificates for verification before delivery or application, as specified in the Contract.
12.3 The Employer may arrange independent testing of material samples through a recognized/accredited laboratory wherever considered necessary.
12.4 The tests shall include the properties specified in the Technical Specifications, which may include:

a. Appearance and physical condition.
b. Density/specific gravity.
c. Viscosity or consistency.
d. Non-volatile content/solid content.
e. Hydrophobicity and hydrophobicity transfer characteristics.
f. Dielectric properties.
g. Tracking and erosion resistance.
h. Adhesion and weathering resistance.
i. Other specified electrical, mechanical and environmental performance characteristics.

12.5 Applicable test standards, methods, acceptance limits and sampling requirements shall be as specified in the Technical Specifications.
12.6 The Contractor shall bear the cost of testing where the supplied material fails to comply with the specified requirements.
12.7 No RTV coating material shall be applied until the material has been inspected and accepted by the Engineer-in-Charge.

14. APPLICATION OF RTV COATING

14.1 RTV coating shall be applied strictly in accordance with the approved

manufacturer's application procedure and the Technical Specifications.
14.2 Application shall be carried out by trained and experienced personnel using suitable and approved application equipment.
14.3 Before application, the Contractor shall verify and record the following environmental conditions:
a. Ambient temperature.
b. Relative humidity.
c. Insulator surface temperature.
d. Dew point and the temperature difference between the surface and dew point, wherever applicable.
14.4 The coating shall only be applied when the environmental and surface conditions are within the manufacturer's specified application limits.
14.5 The coating shall be applied uniformly over the designated porcelain surface, including all required sheds and skirts, ensuring proper coverage without pinholes, bubbles, cracks, runs, sagging or other visible defects.
14.6 The specified dry film thickness/coating thickness and coverage rate shall be maintained in accordance with the approved Technical Specifications and manufacturer's recommendations.
14.7 Metal fittings, terminals, grading rings, nameplates, equipment contacts and other surfaces not intended for coating shall be properly protected against accidental coating application.
14.8 The Contractor shall ensure proper adhesion of the coating to the prepared porcelain surface and shall avoid contamination during application and curing.
14.9 The required curing/drying period shall be observed before the equipment is released for energization.
14.10 No unauthorized dilution, mixing, addition of solvents or alteration of the RTV coating formulation shall be permitted.
14.11 The Contractor shall maintain records of material batch numbers, quantity consumed, area/number of insulators coated, environmental conditions and application details.
14.12 Any coating found defective, uneven, peeling, contaminated or otherwise non-conforming shall be rectified by the Contractor at its own cost.

15. QUALITY ASSURANCE, INSPECTION AND ACCEPTANCE

15.1 The Contractor shall establish and implement a quality-control system throughout material supply and application activities.
15.2 The Engineer-in-Charge or his authorized representative shall have the right to inspect the supplied material, cleaning activities, surface preparation, coating application and completed work at any stage.
15.3 The Contractor shall provide all necessary assistance, instruments, facilities and access required for inspection and testing.
15.4 The following inspections and tests shall be performed, as applicable and specified in the Technical Specifications:

A. Before Application
a. Visual inspection of porcelain post insulators.
b. Verification of surface cleanliness and dryness.
c. Verification of material batch number and shelf life.
d. Recording of ambient temperature, humidity and surface temperature.
B. During Application
a. Monitoring of coating application procedure.
b. Verification of uniform coverage.
c. Monitoring of coating thickness, where applicable.
d. Recording of material consumption and application conditions.
C. After Application
a. Visual inspection for uniformity and complete coverage.
b. Inspection for pinholes, bubbles, cracks, peeling, sagging, contamination and other visible defects.
c. Verification of coating thickness using an agreed and suitable measurement method, where specified.
d. Hydrophobicity assessment using an agreed procedure, including IEC 62073 where applicable.
e. Verification of curing/drying requirements.
15.5 The Contractor shall submit inspection records and test reports to the Engineer-in-Charge for review and acceptance.
15.6 Any work found not conforming to the Technical Specifications or approved application procedure shall be rectified by the Contractor at its own cost.
15.7 The Employer reserves the right to reject any defective or unsatisfactory work and require reapplication or other appropriate corrective measures.
15.8 Final acceptance shall be subject to satisfactory completion, inspection, testing and submission of the required documentation.
15.9 Inspection or acceptance by the Employer shall not relieve the Contractor of its obligations regarding material quality, workmanship and warranty.

16. WARRANTY AND DEFECT LIABILITY

16.1 The Contractor shall provide a minimum warranty of 12 months (12) months from the date of completion and acceptance of the RTV coating work at the respective site, subject to the product warranty requirements specified in the Contract.
16.2 The supplied RTV coating material and application workmanship shall remain covered under the warranty during the specified warranty period.
16.3 The warranty shall cover defects attributable to defective material, improper surface preparation, inadequate application, poor adhesion, premature peeling, cracking, delamination or other workmanship-related deficiencies.
16.4 In case of any defect attributable to the Contractor, the Contractor shall inspect and rectify the affected coating at its own cost within the period specified by the Engineer-in-Charge.

16.5 The Contractor shall provide replacement material and carry out necessary surface preparation and reapplication without any additional cost to the Employer.
16.6 Any rectified or reapplied portion shall carry a fresh warranty period as specified in the Contract for that portion.
16.7 The Contractor shall submit a written warranty certificate issued by the manufacturer and/or authorized supplier, together with its own undertaking covering workmanship and application.
16.8 Warranty obligations shall be without prejudice to any other rights and remedies available to the Employer under the Contract.

17. MEASUREMENT AND PAYMENT

17.1 Measurement of completed work shall be made in accordance with the units, quantities and measurement procedures specified in the BOQ.
17.2 Payment shall be made against actual quantities of work satisfactorily completed, inspected and accepted by the Engineer-in-Charge, subject to the payment conditions of the Contract.
17.3 The quoted rates shall be deemed inclusive of all costs associated with procurement, supply, packing, transportation, loading, unloading, insurance, storage, cleaning, washing, surface preparation, application, manpower, tools, plants, equipment, consumables, testing, documentation and other incidental activities required for completion of the defined scope.
17.4 No additional payment shall be made for activities already included in the BOQ rates or reasonably necessary for satisfactory completion of the defined scope.
17.5 Any variation in the scope of work shall be dealt with strictly in accordance with the applicable provisions of the Contract.
17.6 The Contractor shall submit site-wise measurement sheets, material consumption records, inspection reports and completion certificates along with its payment claims.

18. COMPLETION SCHEDULE AND DELAY

18.1 The Contractor shall complete the entire work within the contractual completion period specified in the Contract.
18.2 The Contractor shall submit a detailed site-wise work programme within the period specified by the Employer after issuance of the Notice to Proceed.
18.3 The Contractor shall ensure adequate mobilization and deployment of resources to achieve the approved execution schedule.
18.4 Any delay attributable to the Contractor, including failure to mobilize manpower, equipment, materials or consumables, shall be dealt with in accordance with the applicable provisions of the Contract.
18.5 Extension of time, where justified, shall be considered by the competent authority in accordance with the Contract.
18.6 Liquidated damages, if applicable, shall be imposed in accordance with the relevant provisions of the GCC/PCC.

19. ENVIRONMENTAL PROTECTION AND DISPOSAL OF WASTE

19.1 The Contractor shall ensure that all activities are carried out in an environmentally responsible manner.
19.2 RTV coating compounds, solvents, cleaning agents and other chemicals shall be handled, stored and disposed of in accordance with their Safety Data Sheets and applicable environmental laws.
19.3 The Contractor shall prevent spillage of chemicals, solvents and coating materials in the switchyard, drainage systems or surrounding areas.
19.4 Empty containers, used cleaning materials, contaminated cloths and other waste generated during the work shall be collected and disposed of through approved methods.
19.5 No chemical, solvent or waste material shall be discharged into the soil, drainage system or water bodies.
19.6 The Contractor shall clean the working area after completion of each activity and restore the site to its original condition, except for the completed coating work.
19.7 The Contractor shall be responsible for any environmental damage caused due to its activities.

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TECHNICAL PROVISIONS

1. General

1.1 All designs, equipment, materials and workmanship shall comply with and be tested in accordance with requirements of the specifications. Equipment or parts, which are not covered by the specifications, shall comply with rules, codes and regulations of the International Electro-Technical Commission (IEC) or approved National Standardizing bodies.

1.2 The general intent of these specifications is to require the supply of equipment and materials equal or superior to those actually described herein. Unless otherwise stated, reference to the brand or manufacture, if made is only for the sake of comparison as to type, design, character or quality of the equipment and materials desired and shall not be interpreted as eliminating other equipment and materials of equal performance, quality and durability.

2 SPECIFICATIONS AND DRAWING

2.1 The contract shall be executed in strict conformity with the specifications and/or Drawings given or mentioned in this section and the supplier shall do no 'Work' without proper specifications, instructions and/or Drawings.

2.2 The Employer shall interpret the meaning of the Specification, data, drawing etc, and shall have a right to reject or accept any work or material which in his assessment does not meet the requirements of the Specification and/or applicable National and International standards, codes, rules, etc. mentioned elsewhere in the specification

2.3 Specifications and/or drawings are intended to complement each other so that if anything is shown on the drawings as required but not mentioned in the specifications or vice versa, or in the event of conflict between any two clauses of the Specification/document of different codes/ standards specified or provided with the document, the more stringent requirement as per interpretation of the Employer apply, unless confirmed otherwise by the Employer in writing based on a written request from the Contractor.

2.4 If any errors, omissions or discrepancies are found in the figures, specifications and/or drawings or, if any feature shall appear to the supplier to be indefinite or unclear, the same shall be referred to the Employer whose written explanation and/or clarification shall be obtained before proceeding with the work.

2.5 The Manufacturer/ supplier shall submit to Employer for his approval in-accordance with Programme as per GCC 12.1, four (4) copies of all drawings

technical literature, data, operation and maintenance instruction books and/or manuals required under the specifications and such other documents as required in the Technical Specifications or other provisions of the bidding documents or, if Employer deems necessary, require changes or modifications to be made therein, Employer shall return two copies to the Contractor/Manufacturer marked. "Approved", "Approved as Noted" or "Returned for Correction". Each drawing, which is noted "Returned for Correction" has to be resubmitted for approval after incorporation of the desired changes.

2.6 The Contractor/Manufacturer after incorporating the desired changes in the drawing shall resubmit four (4) sets of the same to the Employer for approval. Two prints of which shall be stamped "APPROVED" by the Employer and returned to the Contractor/Manufacturer for his record.

2.7 On completion of the Contract the Contractor / Manufacturer shall deliver to the Employer four (4) prints of all approved drawings, technical literature, data which show the work in the final or "as built" condition. The said drawings and documents shall be permanent and non-fadable. In addition to above, two soft copies of above-mentioned final drawings made on AutoCAD (latest version) on two separate CDs shall also be provided to the Employer and the Project Manager.

2.8 The Contractor/Manufacturer shall allow 28 days for the Employer's approval of drawings in his schedule of work and in the time allowed for completion of the Contract. Extra time required for approval of drawings due to deficiencies in design or errors in submitted drawings shall be the responsibility of the Contractor/Manufacturer and no extension in time will be allowed on this account.

2.9 All drawings and documents furnished by the Contractor/Manufacturer in accordance with the Contract shall become the property of the Employer.

2.10 Wherever reference is made in the Technical Specifications to specific standards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest current edition or revision of the relevant standards or codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relates to a particular country or regions, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.

LANGUAGE

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

TYPE TESTS REQUIREMENTS

4.1 The bidder shall offer type tested equipment/ RTV material or if the equipment/ material is not previously type tested, the type test shall be carried out in line with relevant IEC / other international applicable standard as mentioned in the policy.

4.2 The bidder shall submit an unconditional undertaking, duly signed and stamped by the bidder and supported by manufacturer (s) accordingly in technical bid, that in case of award of contract if submitted type test reports are not according to NationalGrid type test policy, he will carry out Type Tests as per NationalGrid Type Test Policy within the quoted bid price and without affecting the delivery / competition period as mentioned in the bidding documents. In case of failure to submit an Undertaking of type test as per NationalGrid type test policy along with the bid or in response to post bid clarification:

a. In supply contracts, bid shall be rejected.
b. In EPC contract, such manufacturer shall not be accepted, and bidder will be bound to replace the same with acceptable manufacturer. In case of noncompliance, the bid shall be rejected.

4.3 Within 07 days from approval of technical data / drawings, the contractor shall submit schedule of type testing from laboratory.

4.4 After award of contract, the bidder shall be required to perform requisite type tests before delivery of equipment without affecting the delivery / competition period as mentioned in the bidding document within the quoted bid price. In case of delay or non-compliance of the said requirement, NationalGrid reserves the right to cancel the contract agreement including encashment of performance guarantee and initiate the process for blacklisting as per NationalGrid SOP for blacklisting.

4.5 During evaluation, the Employer may seek any information and timelines regarding missing tests, which in his opinion, are required to be performed as per Specifications from the bidder(s) through post-bid clarification. In case of non-submission of the requisite missing data/ confirmation by the bidder within stipulated time, the bid shall be rejected.

4.6 The offered plant/equipment, not covered in NationalGrid 's Type Test Policy, shall be type tested as per relevant NationalGrid specification.

Specifications

The relevant NationalGrid standard specifications for Equipment/material are given herein below:

1 RATINGS

1.1 The RTV Silicone Rubber HVIC shall have the following properties as supplied:

Table –I

Property	Value
Basic Component	HVIC, RTV Silicone coating containing Alumina Tri Hydrate (ATH)
Type	One-Part, RTV
Appearance	Paint
Color	Red or any other subject to Engineer's Approval
Specific Gravity	1.10 to 1.25
Application Temperature Range	5 °C to 60 °C
Skin Over time at 25 °C and 50% relative humidity	15 minutes
Tack free time at 25 °C and 50% relative humidity	15 to 45 minutes
Percent of Solids by weight	≥ 70%
Dynamic Viscosity, cP (centipoise)	1000 to 3500

1.2 The RTV Silicone Rubber HVIC shall have the following properties as cured at standard conditions (i.e. 25 °C temperature and 50% relative humidity) after seven (7) days:

Table –II

Property	Value
Method of Application	Spray
Coating Thickness	380 – 500 microns

Dielectric Strength (ASTM D149)	350 to 560 V/mil, minimum
Volume Resistivity (ASTM D257)	$1x10^{14}$ to $37x10^{14}$ Ohm.cm
Dissipation Factor at 100Hz (ASTM D150)	0.01 to 0.09
Tracking Wheel Withstand	1000 hours, minimum
Receding Water Contact Angle	>80 degrees, minimum
Dry Arc Resistance	180 to 200 , Track Seconds
Tracking & Erosion Resistance (IEC 60587)	Minimum grade 1A 4.5
Loss Tangent	<0.6%
Warranty Period	No flashover warranty for 10 years minimum from date of application. No preventive maintenance shall be required during the period.

1.3 The RTV Silicone Rubber Insulator Coating shall have hydrophobicity of silicone rubber material classified Wettability Class I (WC-I) or better as per IEC 62073. Accordingly, receding water contact angle shall be 80^{o} or more.

2 MATERIALS

2.1 The RTV Silicone Rubber Insulator Coating shall have a chemical structure of 100 percent silicone rubber with highest possible concentration of Low Molecular Weight silicone chains (LMW) before fillers are added. The finished product shall be ultraviolet (UV) radiation exposure resistant. The finished product and its life shall be unaffected by atmospheric conditions due to weather, proximity to the coast, fumes, ozone, acids (particularly nitric acid present in the coastal area and sulfuric acid present in the prevailing environment of oil field areas in the region), bases/alkalis, and hydrocarbon components, dust or rapid changes to air temperature (temperature extremes). There shall be no material degradation such as development of surface cracks and increase in surface hardness, etc.

2.2 The RTV Silicone Rubber Insulator coating shall be resistant to atmospheric and chemical degradation. Salt air, airborne pollutants,

industrial pollutants such as cement dust or sulfur and rain or humidity shall not affect the coating.

2.3 The RTV Silicone Rubber Insulator Coating shall be resistant to arcing and corona. The coating shall exhibit high tracking resistance to reduce damage during salt-storms (storms arising from the sea) or other severe contamination events. The track resistance or the RTV Silicone Rubber Insulator Coating material shall meet the requirements of IEC 60587, Method 1, Class 1A 4.5.

2.4 The material of RTV Silicone Rubber Insulator Coating shall be room temperature vulcanized silicone rubber and shall have a Shore 'A' hardness of not less than 60. To prove this property, a test shall be performed.

2.5 The RTV Silicone Rubber Insulator Coating shall be applied by dipping/spray process to have the dry film thickness (DFT) of 0.38mm to 0.5mm in maximum three (3) coats of application.

2.6 The RTV Silicone Rubber Insulator Coating shall be a single component, ready-to-use, and shall not require excessive mixing/shaking before use. However, depending on the application equipment, the humidity and the temperature conditions, thinning/dilution may be required. The manufacturer may be required to supply the suitable thinner and submit a table showing percentage (%) quantity to be used at different temperatures and humidity levels. The thinner shall be of high flash point. The Coating shall be moisture curable at room temperature.

2.7 The RTV Silicone Rubber Insulator Coating shall exhibit long-term water repellency and hydrophobicity.

2.8 The RTV Silicone Rubber Insulator Coating shall not require use of any primer on the ceramic insulators for adhesion purposes.

2.9 The RTV Silicone Rubber Insulator Coating shall be easy to be removed and reapplied. The Coating shall have excellent arc resistance, excellent unprimed adhesion, easy to apply and spray-able as well as dip-able.

2.10 The RTV Silicone Rubber Insulator Coating Material shall have minimum of 12 months shelf life, which shall effect from the date of manufacturing. The contractor shall submit the warranty to this effect. The expiry date shall be marked on the containers. The delivery of the

material shall not take a long time and the material shall not be supplied from the old stock. The remaining shelf life of the material shall be at least nine (9) months when delivered to NationalGrid site. The coating shall be supplied in cans weighing approximately 20kg.

3.0 COMPOSITION AND PROPERTIES

3.1 The RTV Silicone Rubber Insulator Coating shall be One-part RTV silicone rubber made from a basic polydimethyl siloxane (PDMS) polymer system, which may contain a fumed silica reinforcer, a polymerization/condensation catalyst, cross-linking agent, UV resistant absorbent and alumina trihydrate (ATH) filler, adhesion promoter, all dispersed in a carrier solvent. Unless otherwise specified in the data schedule, the solvent shall be non-flammable type suitable for energized applications.

3.2 The RTV Silicone Rubber Insulator Coating shall have the optimum filler particle size and optimum filler concentration to provide even and stable dispersion in the polymer for peak performance and extended shelf life.

3.3 The solvent to be used in the RTV Silicone Rubber Insulator Coating shall be soluble with the polymers and shall have a good evaporation rate to provide speedy curing and have a purity to comply with all safety and environmental regulations. Manufacturer shall specify and provide the technical data of the dilution solvent, if thinning is required.

3.4 The cure system (cross-linker and catalyst) shall be compatible with the filler for best performance and shelf life.

3.5 The manufacturer shall advise/recommend suitable method of application and provide written application instructions.

3.6 The contractor shall submit in the data schedule the number of coats for dip/spray application to obtain the desired coating thickness in the range of 0.38mm to 0.50mm.

3.7 The RTV Silicone Rubber Insulator Coating shall be capable of withstanding high-pressure power washing. To prove this property, a power wash test shall be performed.

3.8 The RTV Silicone Rubber Insulator Coating shall protect the ceramic insulators against flashovers caused by pollution.

3.9 The contractor shall provide warranty that the coating manufactured shall prevent insulator surface contamination-based flashovers for a period of 10 years minimum at contamination ESDD (equivalent Salt Deposit Density) level of the area specified.

4.0 MARKING

4.1 The packing and delivery dates of coating shall be labled on the coating cans. The expiry date shall be considered from packaging date and not from the date of shipment of the coating.

4.2 The cans shall be marked for "flammable" or "non-flammable" depending upon the type of solvent used for dispersion of the coating.

5.0 QUALITY ASSURANCE MECHANISM

5.1 The manufacturer should be ISO 9001 certified and shall invariably furnish following information along with his bid, failing which his bid may be rejected.

a. Statement giving list of important raw materials, proposed to be used in the manufacture of the material against this specification, names of sub suppliers for the raw materials, list of standards according to which the raw materials are tested.
b. List tests normally carried out on raw materials in presence of supplier's representative as routine and/or acceptance during production and on furnished goods, copies of test certificates.
c. Information and copies of test certificates in respect of bought out accessories.
d. List of manufacturing facilities available.
e. Level of automation achieved and list of areas where manual processing exists.
f. List of areas in manufacturing process, where stage inspections are normally carried out for quality control and details of such tests and inspections.

g. List of testing equipment available with supplier for final testing as specified. In case if the supplier does not possess al the routine and acceptance testing facilities the bid will be rejected.
h. Special features provided to make it maintenance free.
i. NationalGrid reserves the right for factory inspection to verify the facts quoted in the bid. If any of the facts are found to be misleading or incorrect the bid of that supplier will be out rightly rejected and they may be black listed as per NationalGrid 's SOP.

6.0 APPLICATION OF RTV COATING

6.1 In order to ensure perfect bonding before application of the RTV coating, the surface of the dielectric/porcelain shell shall be carefully cleaned and prepared through following steps:

i. High-pressure water washing/cleaning method will be used first to remove common contaminants, such as accumulated dust and salt.
ii. The surface is then hand wiped with cloth rags.
iii. More tenacious contaminants, such as eradicating dirt, oil, carbon powder, cement dust may require a dry abrasive cleaner, such as ground corncob.
iv. The surface is then hand wiped with cloth rags to remove all contaminants.
v. Oil-less solvent or any other electric equipment cleaning agent can also be used to ensure removal of heavy contaminants or any other harmful substance on the surface of insulator
vi. The surface is then dried naturally before application of RTV Coating.

The process shall be monitored by NationalGrid representatives.

6.2 All surfaces must be clean and dry to ensure proper adhesion of RTV to the insulator surface.

6.3 The coating shall be applied through Dip/spray method assuring the uniformity and thickness of coating as well as the homogeneity of the surface. The RTV surface must become tack free before application of subsequent coats. The curing shall be done under well-controlled environmental conditions – humidity and temperature.

6.4 The layer of RTV coating shall be strongly bonded to the surface of the dielectric/porcelain shell, in such way that it shall not be possible to peel it off. The coating shall be compatible with high-pressure washing.

6.5 The zinc sleeve of the pin of insulator shall not be coated with RTV silicone. The base of the cap shall be coated to a height of 0.5 to 1cm in the zone near to the porcelain shell.

7.0 INSPECTION AND TESTING

All test results shall be provided for review and acceptance by purchaser.

7.1 Routine Tests

All routine (Production) tests prescribed in the relevant IEC Standards shall be performed prior to delivery to NationalGrid, to eliminate manufacturing defects.

7.2 Sample Tests

The sample tests shall be carried out on the RTV coated post insulators at manufacturer's own laboratory in the presence of NationalGrid representatives or at an accredited Independent Test Laboratory or any other place agreed with purchaser.

7.2.1 Rules for Insulator Sampling and their Distribution for Tests

7.2.1.1 The samples shall be selected randomly by the Purchaser's Representative after completion of coating and the specified curing period.

For each application lot, 10% of the coated post insulators, subject to a minimum of three (03) and a maximum of ten (10) insulators, shall be selected for sample inspection and testing.

Where the total number of coated post insulators in a lot is less than three (03), all insulators shall be inspected and tested, as applicable. The total sample of 'n' insulators is further divided into two partial samples composed of "n1" and "n2" insulators.

7.2.1.2 The sample of "n1" insulators is subjected to the following tests as described in this specification:

i. Visual Examination
ii. Dry Film Thickness Test
iii. Adherence Test
iv. Hydrophobicity Test
v. Contact Angle Measurement Test

7.2.1.3 The sample of "n2" insulators is subjected to the following tests as described in this specification:

i. Visual Examination
ii. Wet Film Thickness Test
iii. High Pressure Water Withstand Test
iv. Boiling Water Test

7.2.2 Visual Examination

Visual inspection will be carried out in order to ensure:

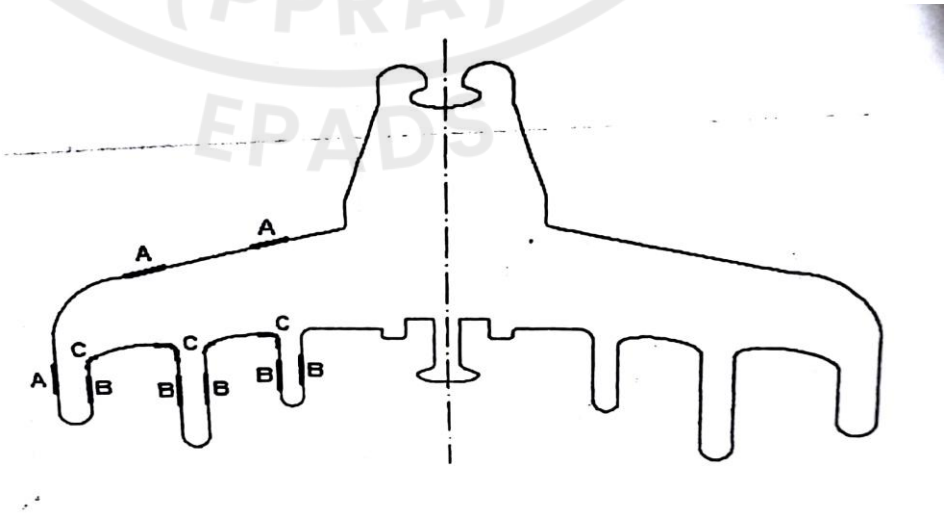
i) **Smoothness & Uniformity:** Coating should be contiguous, uniform, smooth and free of bubbles, water blisters, icicles, lumps and runs. The material shall flow sufficiently on insulator surface during application, amalgamating to form a smooth continuous finish yet not to flow too much on vertical surfaces resulting in **drips** and **icicles** of coating along the ribs of insulator sheds.

ii) **Purity:** Coating material should be free from any contaminant, impurity like metal parts, cement, dust etc. to prevent channeling of leakage current and dry band arcing.

7.2.3 Thickness Test

7.2.3.1 Dry Film Thickness Test

Ultrasonic thickness Gauges will be used to read the thickness of cured silicone coating on porcelain surfaces. The gauges shall be calibrated and checked prior to its use. The measurement shall be performed at nine (9) different positions at the surface of insulator on the below part



as well as upper part. On drawing below, areas where these measurements have to be performed are shown.

Alternately, three samples will be cut with a flat blade on the three 120^{o} directions on the upper surface as noted **'A'** and underneath surface noted **'B'**. The measurement of the thickness will be performed with the magnetic method by interposing between a metallic support and the apparatus the slice of coating to be measured.

The results are correct if

- The average **A** values is above 350µm and below 530µm
- The average **B** values is above 280µm and below 380µm
- The values of thickness could be lower on the C areas but applied regularly.

7.2.3.2 Wet Film Thickness Test

Wet Film gauges will be used to check wet film thickness after application of each coat on insulator. To determine the dry film thickness, percentage of solvent would be subtracted. For example, 0.5mm of wet material at 70% solids would provide 0.35mm of cured coating.

7.2.4 High Pressure Water Withstand Test

A power water wash test shall be performed in accordance with IEEE Std. 957™ to demonstrate that the RTV coated insulators can be power washed without any damage to RTV coating. The test shall be a water spray of a solid stream through a 6mm diameter nozzle at 3800 kPa for a period of ten (10) minutes. The nozzle of the spray equipment shall be at a distance of 3m from the insulator surface. There shall be no signs of water penetration in between RTV silicone rubber coating and insulator surface.

7.2.5 Boiling Water Test

Boiling water test shall be performed in accordance with IEEE Std. 1523-2002 to verify the bonding characteristics of the RTV Silicone Rubber Coating when applied to ceramic insulators. The coated

insulator shall be put in water and boiled for 100 hours and removed. The coating shall not exhibit water blisters at the interface between the insulator surface and the coating.

7.2.6 Adherence Test

The adherence test will be performed with specific tool described in standard EN-ISO 2409. Orthogonal traces and parallel traces shall be made. The measurement will be performed on two opposite sides of the upper surface of the same insulator. The adherence on the extremity of the under-ribs shall be controlled by scrapping off a strip along half the circumstances with cutter blade. The layer of silicone shall be adherent, uncoated porcelain/dielectric shell shall not be apparent.

7.2.7 Hydrophobicity Test

Hydrophobicity Test shall be carried out as per Annex A (Hydro Classification Guide) of IEEE Std. 1523-2002.

7.2.8 Contact Angle Measurement Test

Contact Angle Measurement Test shall be performed in accordance with IEC 62073.

7.3 Type Tests

All type tests mentioned below and in schedule of technical data should have been completed at an independent STL Lab/Lab named in NationalGrid's Type Test Policy attached as Annexure to this section.

i. Inclined Plane Tracking and Erosion Test as per IEC 60587
ii. Accelerated Weathering Test (1000 Hours) as per IEC 61109
iii. Artificial Pollution Test by Salt Fog Method as per IEC 60507
iv. Angle of Hydrophobicity as per IEC TS 62073
v. Hydrophobicity Recovery by Corona Test

vi. Dry Arc Resistance as per ASTM D495
vii. Dielectric Strength Test as per ASTM D149a
viii. Volume & Surface Resistivity Test as per ASTM D257
ix. Dissipation Factor Test as per ASTM D150

8.0 PACKAGING AND SHIPPING

The packaging should be made in a way to fully protect the coating at the surface of insulators during transit to their final destination or storage and subsequent installation at site. Packing case size and weight shall take into consideration their appropriateness, the remoteness of the final destination, the goods and the absence of heavy handling facilities at all points in transit.

9.0 PERFORMANCE GUARANTEE

A ten (10) years guarantee starting from the date of final taking over certificate shall be given by the contractor for the RTV coating of insulator confirming that no flash over & no arcing will occur on the coated insulators within ten years guarantee period. Such guarantee letter shall be attached with offer. In case of observance of crack / peel off of the coating within guarantee period, the same shall be attended free of cost.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

NATIONAL TRANSMISSION & DESPATCH CO. LTD

Company Secretary

No. NTDC/CS/ 2730-35 Dated: 03 – 02 – 2023

NOTIFICATION

Approval of revised NTDC type test policy

The Board of Directors of National Transmission & Despatch Company Limited (NTDC) in its 240th meeting held on 20.01.2023 against additional agenda item No. 01 has resolved and approved the revised NTDC type test policy (Annex-A).

Azhar Saleem
Company Secretary

Copy to:

1. Managing Director
2. All Deputy Managing Directors
3. Chief Financial Officer
4. General Manager (D&E)

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Type Test Requirements of NTDC (Revised Policy)

1 Foreword

1.1 This type test policy will come into effect at once and shall replace the existing type test policy which was issued in 2019.

1.2 This policy shall be applicable to:

a. All Future Procurement
b. All ongoing Tenders
c. Only for those Contracts where approval of equipment/material is not accorded.

1.3 This policy consists of the following:

a. Policy Document
b. Part-I contains the list of approved/STL member laboratories.
c. Part-II deals with the type testing of Grid Station Equipment.
d. Part-III deals with the type testing of Transmission Line Equipment.

1.4 Technical Committee of BOD may issue any amendment to this policy as and when required.

2 Type Test Policy

2.1 The bidder shall offer type tested equipment or if the equipment is not previously type tested, the type tests shall be carried out in line with relevant IEC/other international applicable standard as mentioned in the policy.

2.2 The type test policy covers the scope as given in Part-II and III of this policy. However, the equipment which are not mentioned in this type test policy shall be tested as per relevant NTDC specifications.

2.3 The Type Test reports shall remain valid unless and until.

i. Voltage class has changed
ii. Short Circuit level has changed [1]
iii. The applicable standards have changed.
iv. The design/construction has changed.
v. Manufacturing Facility has changed.

[1] If all other conditions mentioned under Clause 2.3 (i, iii, iv & v) are not violated, the dielectric tests shall be considered acceptable.

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2.4 The Test Report shall include complete identification of the equipment and other necessary information as mentioned in the relevant IEC/ other international applicable standard along with drawings stamped by the concerned laboratory.

2.5 The following provisions have been made in this Policy with respect to bidding process:

i. The Bidder shall submit an unconditional Undertaking, duly signed and stamped by bidder and supported by manufacturer(s) accordingly in technical bid, that in case of award of contract if submitted type test reports are not according to NTDC type test policy, he will carry out type tests as per NTDC Type Test Policy within the quoted Bid price and without affecting the delivery/ completion period as mentioned in the Bidding Documents. In case of failure to submit an Undertaking of type tests as per NTDC type test policy along with the bid or in response to post bid clarification:

   a. In supply contract, bid shall be rejected.
   b. In EPC contract, such manufacturer shall not be accepted, and bidder will be bound to replace the same with acceptable manufacturer. In case of noncompliance, the bid shall be rejected.

ii. within 07 days from approval of technical data/ drawings, the contractor shall submit schedule of type testing from laboratory.

iii. After award of contract, the bidder shall be required to perform requisite type tests before delivery of equipment without affecting the delivery/completion period as mentioned in the Bidding Document within the quoted bid price. In case of delay or non-compliance of the said requirement, NTDC reserves the right to cancel the contract agreement including encashment of performance guarantee and initiate the process for blacklisting as per NTDC SOP for blacklisting.

Note:

a) For the purpose of type testing, latest IEC/ other applicable international standard as mentioned in the policy shall be applicable.
b) For service conditions of material/equipment covered in this policy, the relevant NTDC specification shall be applicable.
c) The manufacturers may avail this opportunity for carrying out type tests as per NTDC Policy. NTDC can also nominate its inspectors upon request provided that all such costs shall be borne by the manufacturer.
d) NTDC reserves the right to change all or any parts of the type test policy at any time in the best interest of company.
e) For test grouping, sampling and sequence for the type testing, the procedure/method mentioned in IEC/any other relevant international standard shall be applicable.
f) For type test reports from ISO/IEC 17025 certified laboratories, as permitted in part II & III of the policy, in case of ambiguity in the independent status of the laboratory, the reports shall be acceptable upon providing the certificate from the manufacturer that the laboratory is independent from the manufacturer and offering extended warranty twice of the original.

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g) In case of contradiction between NTDC specification & this type test policy, this policy shall prevail.

Abdul Haq
Manager (Tech), HV&SC Lab, Rawat
(Member)

Azhar Iqbal
Manager(MP&M) NTDC
(Member)

Anees Ahmad
Chief Engineer (T/L Design) NTDC
(Member)

Taqi-ud-din
Chief Engineer (P&C) NTDC
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Shahid Shafi Sial
Chief Engineer (SS Design) NTDC
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Part-I

(List of Approved/STL member Laboratories)

1. All STL member Laboratories and their subsidiaries/affiliates mentioned on their website www.stl-liaison.org/web/03_members.php

2. Kinectrics Laboratory
   800 Kipling Ave. Etobicoke, ON M8Z 5G5,
   Canada

3. Polotecnico Di Milano
   Plazza Leonardo da Vinci, 32, 20133 Milan
   Italy

4. EGU HV Laboratory A.S
   Podnikatelska 267 190 11 Prague 9, Bechovice
   Czech Republic

5. High Voltage and Short Circuit (HV&SC) Laboratory
   Rawat, Islamabad, Pakistan

6. IREQ, Canada

7. CRIEPI, JAPAN

8. TUV Labs, Italy

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Part-II
Grid Station Equipment

1. This part contains the type testing requirements relating to the Grid Station Equipment.

2. The Equipment / material covered under this policy is mentioned hereunder:
   a. Circuit Breaker
   b. Disconnector
   c. Inductive Voltage Transformer/Capacitive Voltage Transformer/CCVT
   d. Current Transformer
   e. Bushings (Transformers, Shunt Reactors & SF_6 to Air (GIS))
   f. Gas Insulated Switchgear (GIS)
   g. Surge Arrester
   h. Post Insulators
   i. Hardware (Connectors and Strings assemblies)

3. The type test to be performed on the above equipment from **Laboratories as per Part-I** of this policy are mentioned below:

Sr. #	Equipment Name	Test to be performed
01	**Circuit Breaker (IEC 62271-100)**	i. Dielectric Tests ii. Temperature-rise Tests iii. Short-time withstand current and peak withstand current tests iv. Short circuit current making and breaking tests
02	**Disconnectors, Earth Switch and Fast Earth Switch (IEC 62271-102)**	i. Dielectric Tests ii. Continuous Current Tests iii. Short-time withstand current and peak withstand current tests
03a	**Inductive Voltage Transformer (IVT) (IEC 61869-1 & 61869-3)**	i. Temperature-rise test ii. Impulse voltage withstand test on primary terminals iii. Wet test for outdoor type transformers iv. Chopped impulse voltage withstand test on primary terminals v. Short circuit withstand capability test
03b	**Capacitive Voltage Transformer (CVT) / CCVT (IEC 61869-1 & 61869-5)**	i. Temperature-rise test ii. Chopped impulse test iii. Impulse voltage withstand test on primary terminals iv. Wet test for outdoor type transformers v. Short circuit withstand capability test
04	**Current Transformer (CT) (IEC 61869-1 & 61869-2)**	i. Temperature-rise test ii. Impulse voltage withstand test on primary terminals iii. Wet test for outdoor type transformers vi. Chopped impulse voltage withstand test on primary terminals vii. Short-time current tests

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Sr. #	Equipment Name	Test to be performed
05	**Bushings (Transformer, Shunt Reactor, SF_6 to Air(GIS)) (IEC 60137)**	i. Wet power-frequency voltage withstand test ii. Long duration power frequency voltage withstand test (Ur≥170kV) iii. Lightning impulse voltage withstand test. iv. Wet switching impulse voltage withstand test ((Ur≥300kV) v. Temperature rise test. vi. Verification of thermal short-time current withstand (if required)
06	**Gas Insulated Switchgear (GIS) (IEC 62271-203)**	i. Tests to verify the insulation level of the equipment and dielectric tests on auxiliary circuits ii. Tests to prove the temperature rise of any part of the equipment and measurement of the resistance of the main circuit iii. Tests to prove the rated peak and the rated short-time withstand current iv. Tests to verify the making and breaking capacity of the included switching devices
09a	**Connectors (NEMA CC1 & ANSI 119.4)**	i. Heat cycle Test ii. RIV and Corona Tests
09b	**String Assemblies (Tension and Suspensions) (NTDC spec P-Draft and relevant international standards)**	i. Heat Cycle Test (Only for Tension clamp of Tension Assembly if its current carrying device) ii. Corona Test

4. All other type tests not mentioned in point-3 above but are required as per relevant IEC/international standard, may be performed as under:

Sr. #	Equipment Name	Test to be performed	Requirement
01	**Circuit Breaker**	All other type tests not mentioned in point-3 above but are required as per IEC 62271-100	i. Any Independent laboratory accredited by ISO/IEC 17025 ii. Any laboratory as per Part-I iii. Inspection reports issued by any STL Laboratory
02	**Disconnectors, Earth Switch and Fast Earth Switch**	All other type tests not mentioned in point-3 above but are required as per IEC 62271-102	
03a	**Inductive Voltage Transformer (IVT)**	All other type tests not mentioned in point-3 above but are required as per IEC 61869-1 & 61869-3	
03b	**Capacitive Voltage Transformer (CVT) / CCVT**	All other type tests not mentioned in point-3 above but are required as per IEC 61869-1 & 61869-5	
04	**Current Transformer (CT)**	All other type tests not mentioned in point-3 above but are required as per IEC 61869-1 & 61869-2	

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Sr. #	Equipment Name	Test to be performed	Requirement
05	**Bushings [2] (Transformer, Shunt Reactor, SF_6 to Air(GIS))**	All other type tests not mentioned in point-3 above but are required as per IEC 60137	
06	**Gas Insulated Switchgear (GIS)[3]**	All other type tests not mentioned in point-3 above but are required as per IEC 62271-203	
07	**Surge Arrester**	All type tests as per IEC 60099-4	
08	**Post Insulators (PI)**	All type tests as per IEC 60168 & 60273.	
09a	**Connectors**	All other type tests not mentioned in point-3 above but are required as per List in Annex-A.	
09b	**String Assemblies**	All other type tests not mentioned in point-3 above but are required as per List in Annex-A.	

Note: In case some tests are categorized as special test in the IEC/relevant international standard while the same are mentioned under type tests in NTDC relevant specification, the same may be performed as per requirement mentioned above.

5. If the offered Circuit Breaker or Disconnector has different continuous current rating than that of the type tested one, then only Temperature rise / continuous current test shall be re-performed from either of the following, provided that the type test reports do not violate the criteria as mentioned under clause 2(3) of this policy:

   i. Any Independent laboratory accredited by ISO/IEC 17025
   ii. Any laboratory as per Part-I
   iii. Inspection report issued by any STL Laboratory

6. If the offered instrument transformer (IVT, CVT/CCVT or CT) has different ratio, VA burden, type of cores (protection & metering) or number of cores from the type tested one[4], then only Temperature rise and accuracy tests shall be re-performed from either of the following, provided that the type test reports do not violate the criteria mentioned under Clause 2.3 of this policy:

   i. Any Independent laboratory accredited by ISO/IEC 17025
   ii. Any laboratory as per Part-I

[2] Transformer, Shunt Reactor and SF_6 Bushings shall either be from M/s Trench Hefley (France/ Switzerland); M/s Passoni & Villa Italy; M/s F&G Germany & M/s ABB Sweden which have proven performance in NTDC system or pre-type tested bushings from an equivalent manufacturer duly tested in accordance with this policy.

[3] Apart from the tests mentioned in IEC for GIS, the following major equipment of GIS shall be type tested in accordance with relevant IEC standards and this policy:

a) Instrument Transformer b) Circuit Breaker c) Disconnector, Earthing Switch and Fast Earthing Switch

[4] The number of cores for the type tested current transformer shall be higher or equal than the offered current transformer.

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iii. Inspection reports issued by any STL Laboratory

7. Chief Engineer (SS Design) NTDC shall be sole judge for the interpretation / applicability for this policy relating to the equipment / material mentioned under Part-II.

8. Chief Engineer (SS Design) NTDC may issue any clarification as and when required relating to Part-II of this policy.

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Part-III
Transmission Line Equipment

1. This part contains the type testing requirements relating to the Transmission Line Equipment.

2. The Equipment / material covered under this policy is mentioned hereunder:
   a. Conductor
   b. Hardware and accessories
   c. Spacer dampers
   d. Stock Bridge Vibration Dampers
   e. Insulators (Toughened Glass/Porcelain/Non-Ceramic Composite)
   f. RTV Coating Material
   g. OPGW
   h. FOC

3. Chief Engineer (TL Design) NTDC shall be the sole judge for the interpretation / applicability for this policy relating to the equipment / material mentioned under Part-III.

4. Chief Engineer (TL Design) NTDC may issue any clarification as and when required relating to Pat-III of this policy.

5. The type tests to be performed on the above equipment from **Labs as per Part-I** of this policy, or otherwise as mentioned against each test, are given in table below:

6. Visual examination, dimensional check and material verification, etc. of the samples to be tested shall be carried out and made part of test report before conducting each of the type test.

S. #	Equipment Name	Tests to be performed		Relevant Standard	Testing Labs
1	**Conductor**	i.	Stress – Strain Test/Stress – Strain Curves	NTDC Specification & relevant IEC/ any other International Standards mentioned in NTDC Specification. IEC 61089.	a. Any lab as mentioned in Part-I; b. Any Independent lab accredited by ISO/IEC 17025; c. Tests at manufacturer's Lab under witness of STL Lab
		ii.	Joints in Aluminum Alloy/Aluminum Wires		
		iii.	Ultimate Tensile Strength and Longitudinal Smoothness Test		
2	**Porcelain/ Glass Disc Insulator**	i.	Dry Power Frequency Withstand Voltage Test	NTDC Specification & relevant IEC/ any other International Standards mentioned in	a. Any lab as mentioned in Part-I.
		ii.	Wet Power Frequency Withstand Voltage Test		
		iii.	Dry Lightning Impulse Withstand Voltage Test		

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S. #	Equipment Name	Tests to be performed		Relevant Standard	Testing Labs
		iv.	Radio Interference Voltage (RIV) test	NTDC Specification. IEC 60383, IEC 60437, IEC 61211, IEC 61467, IEC 60507	
		v.	Thermal-Mechanical Performance test		
		vi.	Steep Wave Front Impulse test		
		vii.	Power Arc test (Short String)		
		viii.	Combined Mechanical and Electrical Strength Test		
		ix.	Residual Strength test		a. Any lab as mentioned in Part-I. b. Any Independent lab accredited by ISO/IEC 17025; c. Tests at manufacturer's Lab under witness of STL Lab
		x.	Impact test		
		xi.	Artificial Pollution Performance test		
3	**Non-Ceramic Composite Insulator Units**	i.	**Tests on interfaces and connections of end fittings:** a) Sudden load release pre-stressing b) Thermal-mechanical pre-stressing c) Water immersion pre-stressing d) Verification tests i. Visual Examination ii. Steep-front impulse voltage test iii. Dry power-frequency voltage test	NTDC Specification & relevant IEC/ any other International Standards mentioned in NTDC Specification. IEC 61109, IEC 62217, IEC 61467, IEC 60507	a. Any lab as mentioned in Part-I
		ii.	**Tests on shed and housing material:** a) Accelerated weathering test b) Tracking and erosion test		a. Any lab as mentioned in Part-I
			c) Artificial Pollution test d) Flammability test e) Hardness test		a. Any lab as mentioned in Part-I; b. Any Independent lab accredited by ISO/IEC 17025; c. Tests at manufacturer's
		iii.	**Tests on core material:** i. Dye penetration test		

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S. #	Equipment Name	Tests to be performed		Relevant Standard	Testing Labs
					Lab under witness of STL Lab
			ii. Water diffusion test		a. Any lab as mentioned in Part-I; b. Tests at manufacturer's Lab under witness of STL Lab
		iv.	**Assembled core-load time test:** a) Determination of the average failing load of the core of the assembled insulator b) Verification of the 96 h withstand load c) Control of the slope of the strength-time curve of the insulator		
		v.	Damage limit proof test and test of the tightness of the interface between end fittings and insulator housing		
		vi.	High pressure water withstand test		
		vii.	Brittle fracture resistance test		
		viii.	Torsional load test		
		ix.	Grading device test		
		x.	Recovery of hydrophobicity test		
		xi.	Artificial Pollution Performance Test		
4	**Complete Hardware String with fittings including insulators for Composite /Porcelain/ Glass Disc Insulators**	i.	Wet Power Frequency test	NTDC Specification & relevant IEC/ any other International Standards mentioned in NTDC Specification. IEC 60383, IEC 60060-1, IEC 61109, IEC 61467, IEC 61284	a. Any lab as mentioned in Part-I;
		ii.	Dry Lightning Impulse Withstand Voltage test		
		iii.	Wet Switching Impulse Withstand Voltage test (for voltages ≥500kV)		
		iv.	Power Arc test		
		v.	Corona and RIV test		
		vi.	Voltage Distribution Test		
		vii.	Mechanical Strength test		
5	**Conductor/ OPGW/ Shield wire Hardware & Accessories**	i.	Heat Cycle test	NTDC Specification & relevant IEC/ any other International Standards mentioned in	a. Any lab as mentioned in Part-I;
		ii.	Magnetic Loss test		
		iii.	Fault Current Test		
		iv.	Corona & RIV Test		
		v.	Power Arc Test		
		vi.	Galvanization test		

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S. #	Equipment Name	Tests to be performed		Relevant Standard	Testing Labs
		vii.	Resistance to Conductor/ OPGW/ Shield wire Slippage test	NTDC Specification. IEC 61284	a. Any lab as mentioned in Part-I; b. Any Independent lab accredited by ISO/IEC 17025; c. Tests at manufacturer's Lab under witness of STL Lab
		viii.	Mechanical test on complete string		
		ix.	Tensile Tests on individual hardware items		
6	**RTV Coating Material**	i.	Inclined Plane Tracking & Erosion Test	NTDC Specification & relevant IEC/ any other International Standards mentioned in NTDC Specification. IEC 60587, IEC 61109, IEC 60507, IEC TS 62073	a. Any lab as mentioned in Part-I
		ii.	Accelerated Weathering Test (1000 Hours)		a. Any lab as mentioned in Part-I; b. Any Independent lab accredited by ISO/IEC 17025; c. Tests at manufacturer's Lab under witness of STL Lab
		iii.	Hydrophobicity Recovery by Corona Test Method		
		iv.	Dry Arc Resistance		
		v.	Dielectric Strength Test		
		vi.	Volume & Surface Resistivity Test		
		vii.	Dissipation Factor Test		
		viii.	Artificial Pollution Test by Salt Fog Method		
		ix.	Angle of Hydrophobicity		
7	**Spacer Damper (Twin, Triple, Quad)**	i.	Corona & RIV Test	NTDC Specification & relevant IEC/ any other International Standards mentioned in NTDC Specification. IEC 61854	a. Any lab as mentioned in Part-I;
		ii.	Simulated Short Circuit Current Test		
		iii.	Flexibility Test		
		iv.	Energy Absorbing Test		
		v.	Simulated Oscillation Fatigue Test		
		vi.	Conical Fatigue Test		
		vii.	Characterization of Elastic and Damping Properties		
		viii.	Damping studies/ verification of vibration behavior by Computer Program		
		ix.	Galvanization		a. Any lab as mentioned in Part-I;
		x.	Clamp Slippage Test • Longitudinal Slip • Torsional Slip		

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S. #	Equipment Name	Tests to be performed		Relevant Standard	Testing Labs
		xi.	Bolt Torque Test		b. Any Independent lab accredited by ISO/IEC 17025; c. Tests at manufacturer's Lab under witness of STL Lab
		xii.	Electrical Resistance Test		
		xiii.	**Elastomer Tests:** a) Temperature endurance test b) Temperature sensitivity test		a. Any lab as mentioned in Part-I;
			c) Specific Gravity and Density Test d) Shore A Hardness Test e) Electrical Resistance Test f) Ultraviolet Resistance Test g) Ozone Resistance Test h) Tension and Elongation Test i) Tear Resistance Test j) Compression Set at 70h, 20°C-100°C-0°C k) Rebound Resilience at 20°C-100°C-0°C l) Air-Oven Deterioration Test 72h, 70°C m) Deterioration in Oils 72h, 70°C n) Water Immersion Test o) Abrasion test		a. Any lab as mentioned in Part-I; b. Any Independent lab accredited by ISO/IEC 17025; c. Tests at manufacturer's Lab under witness of STL Lab
8	**Stockbridge Vibration Damper (for Conductor, Shield wire & OPGW)**	i.	Corona & RIV Test *(only on SB Vibration Dampers for HV conductor)*	NTDC Specification & relevant IEC/ any other International Standards mentioned in NTDC Specification. IEC 61897	a. Any lab as mentioned in Part-I;
		ii.	Damper Performance Tests, which include the below: a. Damper Characteristic Test b. Damper Effectiveness Evaluation c. Verification of Vibration Behavior by Computer Program / Damping Studies		
		iii.	Vertical Fatigue Test		
		iv.	Galvanization		
		v.	Clamp Slippage Test		

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S. #	Equipment Name	Tests to be performed		Relevant Standard	Testing Labs
		vi.	Bolt Torque Test		a. Any lab as mentioned in Part-I; b. Any Independent lab accredited by ISO/IEC 17025; c. Tests at manufacturer's Lab under witness of STL Lab
		vii.	Attachment of Weights to Messenger Cable Test		
		viii.	Attachment of Clamp to Messenger Cable Test		
9	**OPGW (Optical Fiber Ground Wire)**	i.	Performance Tests	IEEE-1138-2009 or Equivalent IEC Standards	a. Any lab as mentioned in Part-I; b. Any Independent lab accredited by ISO/IEC 17025; c. Tests at manufacturer's Lab under witness of STL Lab
		ii.	Electrical tests		
		iii.	Mechanical tests		
		iv.	Environment test		
10	**FOC (Fiber Optic Cable)**	i.	Performance Test	IEEE-1138-2009 ITU-TG 652 D ASTM B398 B398 M, B415 or Equivalent IEC Standards	a. Any lab as mentioned in Part-I; b. Any Independent lab accredited by ISO/IEC 17025; c. Tests at manufacturer's Lab under witness of STL Lab
		ii.	Electrical tests		
		iii.	Mechanical tests		
		iv.	Environment test		

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Annex-A

Type Tests for Grid Station Hardware

1. Connectors (NEMA CC1 & ANSI 119.4)

i. Heat cycle Test
ii. RIV and Corona Tests
iii. Mechanical Composition Test
iv. Tensile Strength Test
v. Elongation Test
vi. Brinell Hardness Test
vii. Cantilever Test
viii. Corrosion Test
ix. Mechanical Oscillation Test (*applicable on multi-angular connectors only*)
x. Electrical Resistance Test
xi. Temperature Rise Test
xii. Tightening Torque Test

2. String Assemblies (Tension and Suspensions)
(NTDC spec P-Draft and relevant international standards)

iii. Heat Cycle Test (Only for Tension clamp of Tension Assembly if its current carrying device)
iv. Corona Test
v. Mechanical Test
vi. Resistance to Conductor Slippage Test
vii. Resistance Test (only for Tension clamp of Tension Assembly)

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NATIONAL TRANSMISSION AND DESPATCH COMPANY LIMITED (NTDC)

REVISED SOP FOR BLACKLISTING

(As on 25.02.2019)

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CHAPTER NO.1

1.1 INTRODUCTION

The main objectives of any procurement process are transparency, economy, fairness and efficiency so that value for money is achieved.

Blacklisting is one of the most effective tools used in the struggle against inefficiencies and corruption in connection with public procurement. In addition, it serves as a major deterrent against any material breach of contract and further ensures the timely execution of projects by holding delinquent persons accountable.

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 Clause above, this SOP has been drafted for procurements made by NTDC.

Any capitalised terms and abbreviations used in this SOP 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.

1.2 EXTENT OF APPLICATION

i. The procedure shall be applicable and remain in force, along with any amendments thereto, within NTDC until any clear instructions or guidelines are imparted by the Government through PPRA, PEC, or any other competent forum.

ii. The procedure shall also be applicable on the pre-qualified firms.

iii. The procedure shall be applicable on any "Person", which for the purposes of this SOP shall *interalia* include suppliers, bidders, contractors, consultants, firms, individuals, and organizations transacting business with NTDC.

iv. Wherever any provision of this SOP 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 such applicable guidelines, laws, or rules shall prevail.

v. This SOP shall become a part of the future Bidding Documents and the person(s) will submit an Undertaking along-with his bid that he has read

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and accepts the provisions of this SOP. Non-submission of an Undertaking may result in rejection of his bid. The said Undertaking will subsequently become part of the Contract Agreement as well.

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CHAPTER NO. 2

2. REASONS OF BLACKLISTING

2.1 The causes and reasons to be taken into consideration for Debarment / Blacklisting of any person are given as under:

2.1.1 Pre- Award Stage:

The following shall be considered, *interalia*, the causes / reasons for initiating proceedings under this SOP at the Pre-Award Stage:

i. Indulging in Corrupt, Fraudulent as well as Collusive practices.

ii. Submission of false and spurious documents, making false statements, making frivolous complaints and allegations to gain undue advantage.

iii. Commission of embezzlement, criminal breach of trust, theft, cheating, forgery, bribery, falsification or destruction of records, receiving stolen property, false use of trademark, securing fraudulent registration, giving false evidence, furnishing of false information of serious nature.

iv. Submission of false bid security or infringement of documents to get undue monetary or any other benefit.

v. Breach of confidentiality of evaluation process as mentioned in Appendix-1 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.

2.1.2 Post- Award Stage:

The following shall be considered, *interalia,* the causes / reasons for initiating proceedings under this SOP at the Post-Award Stage:-

i. Extraordinary delay in signing or refusal to accept the Notification of Award and/or the contract without any cogent reason.

ii. Misconduct, i.e., failure to proceed with the signed contract, withdrawal of commitments, quoting an unreasonably and unfairly low financial offer and subsequently withdrawing such an offer, frustrating the evaluation/bidding process and not responding to written communication in a reasonable time.

iii. Causes mentioned in Clause 2.1.1 (i, ii & iii) above.

iv. Submission of fake / frivolous or mutilated Performance Guarantee or Advance Payment Guarantee etc.

v. Non-satisfactory performance as mentioned in Appendix-2 during the execution of the contract.

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vi. Non-performance or Breach of provisions / clauses of the contract agreements.

vii. Notwithstanding the warranty/defect liability period, any defect in a product, equipment, plant, facility or services rendered that may subsequently surface during field operations within 5 years of its commissioning.

viii. Failure to honour obligations within warranty period or defect liability period as defined in the contract.

2.1.3 Other Causes

i. The person is blacklisted by any Government department in Pakistan, or it is established that the firm is involved in any kind of corruption or corrupt practices anywhere in the world.

ii. Violations of provisions / instructions set down in the Bidding Documents.

iii. Any attempt / activity to malign or bring NTDC into disrepute and harm its interest(s).

iv. Person(s) blacklisted by International Financial Institutions (donor agencies) will be liable to be blacklisted after receipt of confirmation from the donor agencies without any further proceeding.

v. Any other cause deemed just and appropriate by NTDC in the given circumstances.

Note:

(1) If above mentioned causes occur either on part of the principal bidder or the local agent, both shall be considered for blacklisting / debarment.

(2) The authorization of the foreign bidder to local agent shall contain his complete particulars including the name of the company, name of the owner, National Tax number (NTN), CNIC (Computerized National Identity Card) No. etc. In case, the said information is found to be missing, even after calling for the same within a reasonable time, the authority letter shall not be accepted.

(3) The Bidding Documents shall be issued against original authority letter or in case of scanned copy, the email of the foreign bidder shall be enclosed. However, at the time of bidding, the original authority letter shall be attached with the bid. In the absence of the same, the bid shall be rejected.

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CHAPTER NO. 3

3. FORMULATION OF "NTDC'S RIGHTS PROTECTION COMMITTEE"

3.1 A permanent Committee namely "NTDC's Rights Protection Committee (**RPC or Committee**)" 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.

- General Manager (Performance Assessment) NTDC — Convener
- Chief Engineer (Reliability Compliance) NTDC — Member
- Representative of the Chief Law Officer's Office — Member

Depending upon the nature of the case, the Committee may consult or appoint / nominate additional members from within NTDC with the approval of Managing Director (NTDC), 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 RPC shall also be authorized to seek external expert advice as and when required.

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CHAPTER NO. 4

4.1 PROCEDURE FOR BLACKLISTING

Upon receipt of or obtaining information and/or knowledge that any person(s) is involved in practices mentioned in Chapter-2 earlier, the concerned Project Authority / formation shall promptly formulate its recommendations and submit through MD NTDC to NTDC RPC along with its findings, details of charges and documentary evidences to initiate proceedings under this SOP.

4.2 INITIATION OF AN ACTION

(i) Within a period of 15 days after receiving the recommendations of Blacklisting / Debarment from the concerned Project Authority, the Convener of the Committee shall issue a Show Cause Notice ("**Notice**") thereby informing the Person about the alleged charges and shall provide an opportunity to the defend said charges within a time period of 15 (fifteen) days.

(ii) The person(s) shall be accorded adequate opportunity of hearing in order to defend the charges within the given timelines.

(iii) The Notice to the Person shall be sent at the mailing/postal address as provided under the Contract or any other address provided by way of subsequent written communication by the Person The non-receipt of the Notice due to incorrect / change in mailing address without any written communication shall not be attributable to NTDC. In case of non-receipt of any reply from the accused person within the formulated time, but not less than the time given in 4.2 (i) above, the Committee shall have the right to proceed on Ex-parte basis.

4.3 DECISION

i. The committee shall hold an independent inquiry/investigation as the case may be, and, which may include site visits and interviews with the parties concerned. The Committee shall complete the entire inquiry/investigation, preferably within a period of 30 days after receipt of response from the person against whom proceedings under this SOP have been initiated and shall present the report to the MD NTDC.

ii. If required, the Committee may report the case to an appropriate law enforcement agency depending upon the nature of the case for detailed investigations with the prior approval of Managing Director (NTDC).

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iii. The person against whom proceedings have been initiated under this SOP shall not proceed for arbitration/litigation during the proceedings for blacklisting.

4.4 COMMUNICATION OF DECISION

After recommendation for blacklisting by "NTDC's Rights Protection Committee **(RPC)**", the person concerned shall be informed within 10 days of such decision. The decision of the Committee will be notified on NTDC's and PPRA's websites and shall also be conveyed to Pakistan Engineering Council. Blacklisting of firms shall also be conveyed by circular to other Government Departments. All other relevant procuring agencies including PEPCO, DISCOs, and WAPDA, etc., will also be informed simultaneously.

4.5 PERIOD OF DEBARMENT FOR BLACKLISTED FIRMS

(i) The Blacklisting on the grounds and reasons specified herein above in Chapter No. 2 shall be for a reasonable specified period of time and as a general rule of prudence, the period may not exceed three years, except in cases where debarment/blacklisting has been done by any other government department or an International Financial Institution (Donor Agency).

(ii) In case the person has been blacklisted by the government department or the International Financial Institution (donor agency), the period of blacklisting/debarment shall be for a maximum period of 3 years or the time period for which the concerned government department/International Financial Institution (Donor Agency) debarred the contractor (whichever is higher).

4.6 ACTION AFTER PERSONS ARE PLACED ON BLACKLISTING LIST.

i. The decision of blacklisting will be immediately circulated to all concerned as mentioned at Clause 4.4 above.

ii. In case of a contract already awarded to a person which has been blacklisted and termination is either not possible or not feasible, the concerned Project Authority may proceed in this case to complete the contract with the approval of Competent Authority.

iii. The blacklisted person shall stand disqualified from bidding from the date of decision against them. Any pending bids shall also stand rejected. If a contract has already been awarded to person, it shall be voidable at the option of NTDC as per 4.6 (ii) above.

iv. A separate register or data base will be maintained for blacklisted firms indicating reasons and period.

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4.7 EFFECTIVENESS

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

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APPENDIX-1

PROCESS TO DEAL WITH FRIVOLOUS COMPLAINTS

It has been frequently observed that after opening of tenders, the bidders start to influence the evaluation process. Such attempts result in delay in finalizing of award of contract and cause financial loss to the National exchequer. 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 frivolous 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 persons who lodge frivolous complaint(s) during the evaluation process.

iii (a) If the person itself or through its agent or any third party does not refrain from making frivolous complaints in the same tender or any other tender, an official warning will be sent and their case may be sent to "NTDC's Rights Protection Committee" which may analyse the situation and suggest action including the rejection of the bid of the complainant. However, Project Authority may reject the bid even in first instance depending upon nature of the case or provision of the Bidding Documents.

iii (b) If the same person itself or through its agent or any third party lodges a frivolous complaint in another tender floating in parallel before decision of the Grievance Committee, its bid will straight forwardly be rejected by the project authority. It may also be debarred to participate in the next tender for a minimum period of six months under intimation to the Grievance Committee and MD NTDC.

iv. In order to monitor the record of the persons, a data base will be maintained at NTDC's website and the 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.

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NOTE: It is clarified that the process provided above in Appendix 1 is to discourage anonymous and frivolous complaints only, and does not bar any person feeling aggrieved by any act of the procuring agency from lodging a genuine complaint/grievance as provided under Rule 48 of the PPRA Rules, 2004.

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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..

ii. Though the performance evaluation of any person is an on-going process, which takes place throughout the duration of the contract and also during the Defect Liability / Warranty Period, nevertheless, a person's Performance Evaluation Report may be prepared for the consumption and benefit of the procuring agency or for any other purpose at the completion of the project, as the case may be.

iii. The performance evaluation report shall be prepared for all contracts of more than Rs. 100 million. When based on the Evaluation Report, the performance of a person is non-satisfactory, the procuring agency may initiate the case for blacklisting of the person in accordance with the terms of this SOP. For the avoidance of doubt, consistent failure to provide satisfactory performance shall also include performances in a single or multiple contracts executed or being executed by the same person, as the case may be.

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 initiate proceedings under this SOP and/or avail any other remedy provided under the law which may *interalia* include: termination of the contract, recovery of losses, debarring the person from participation in future tenders. The procuring agency shall be the sole judge to determine the projects of vital or critical importance.

v. In case of ordinary delay in performance in 2 consecutive contracts within a period of 3 years, the procuring agency shall have the right to initiate proceedings under this SOP and/or avail any other remedy provided under the law which may *interalia* include: termination of the contract, recovery of losses, debarring the person from participation in future tenders.

vi. The proceedings under this SOP shall not prejudice any other rights and/or remedies available to the procuring agency under the contract documents and/or any other law in force.

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Contractor's Representative and Key Personnel Schedule

Bidders should provide the names and details of the suitably qualified Contractor's Representative and Key Personnel to perform the Contract. The data on their experience should be supplied using the Form PER-2 below for each candidate.

Contractor' Representative and Key Personnel

1.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
2.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
3.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
4.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]

	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
5.	**Title of position:**	
	Name of candidate	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
6.	**Title of position:** *[insert title]*	
	Name of candidate	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]

Form PER-2:
Resume and Declaration
Contractor's Representative and Key Personnel

Name of Bidder

Position [*#1*]: [*title of position from Form PER-1*]		
Personnel information	**Name:**	**Date of birth:**
	Address:	**E-mail:**
	Professional qualifications:	
	Academic qualifications:	
	Language proficiency:*[language and levels of speaking, reading and writing skills]*	
details		
	Address of Employer:	
	Telephone:	**Contact (manager / personnel officer):**
	Fax:	
	Job title:	**Years with present Employer:**

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

Project	**Role**	**Duration of involvement**	**Relevant experience**
[main project details]	*[role and responsibilities on the project]*	*[time in role]*	*[describe the experience relevant to this position]*

Declaration

I, the undersigned *[insert either "Contractor's Representative" or "Key Personnel" as applicable]* , certify that to the best of my knowledge and belief, the information contained in this Form PER-2 correctly describes myself, my qualifications and my experience.

I confirm that I am available as certified in the following table and throughout the expected time schedule for this position as provided in the Bid:

Commitment	**Details**
Commitment to duration of contract:	*[insert period (start and end dates) for which this Contractor's Representative orKey Personnel is available to work on this contract]*
Time commitment:	*[insert period (start and end dates) for which this Contractor's Representative orKey Personnel is available to work on this contract]*

I understand that any misrepresentation or omission in this Form may:

(a) be taken into consideration during Bid evaluation;

(b) result in my disqualification from participating in the Bid;

(c) result in my dismissal from the contract.

Name of Contractor's Representative or **Key Personnel: [*insert name*]**

Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Bidder:

Signature: _____

Date: (day/month/year): _____

Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as specified in Eligibility and Qualification Criteria.

No.	**Source of financing**	**Amount (Eq. PKR)**
1		
2		
3		

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Past Experience / Contracts

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

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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)**
[insert year]	*[insert amount and percentage]*	Contract Identification: *[indicate complete contract name/ number, and any other identification]* Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Reason(s) for nonperformance: *[indicate main reason(s)]*	*[insert amount]*
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)**

[insert year]	*[insert amount]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Procuring Agency" or "Supplier"]* Status of dispute: *[Indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary]*	*[insert amount]*

☐ No consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4.

☐ Consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4 as indicated below.

Year of award	**Outcome as percentage of Net Worth**	**Contract Identification**	**Total Contract Amount (currency), PKR Equivalent (exchange rate)**
[insert year]	*[insert percentage]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Procuring Agency" or "Supplier"]* Court/ arbitral award decision: *[Indicate if the award decision was against the Applicant or any member of a joint venture.]y]*	*[insert amount]*

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 statements[1] for the *[number]* years required above; and complying with the requirements.

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

Average Annual Turnover (Annual Sales Value)

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

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

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

* Refer ITA for date and source of exchange rate.

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

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