



**British Virgin Islands Electricity  
Corporation (BVIEC)**

# **Request for Proposal**

**Procurement for Supply and Installation of a  
SCADA/DMS/OMS, Remote Terminal Units  
(RTUs) and Distribution Automation Field  
Devices**

**Request For Proposal (RFP) no.: 06-24**

**Date: December, 23<sup>rd</sup>, 2024**

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# **PART 1 – Bidding Procedures**

## SECTION I - INSTRUCTIONS TO THE BIDDERS (ITB)

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### A. General

- 1. Scope of Bid and Site Visit**
- 1.1 British Virgin Islands Electricity Corporation (hereinafter BVIEC) issues these Request for Proposal for the Procurement for Supply and Installation of the following three (3) Lots detailed in the Section IV - Technical Specifications:
- (a) Lot 1: SCADA/DMS/OMS
  - (b) Lot 2: Remote Terminal Units (RTUs)
  - (c) Lot 3: Distribution Automation Field Devices
- 1.2 BVIEC is strongly requesting potential bidders to participate in a 3-day technical visit to the project facilities. This visit will be scheduled at least 2 weeks after the bid opening, with final date to be defined by BVIEC and established in the **Invitation Letter**.

### B. Contents of Bidding Document

- 2. Sections of Bidding Document**
- 2.1 The bidding document consist of Parts 1, 2, and 3, which include all the sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITB 4.
- PART 1 - Bidding Procedures**
- Section I - Instructions to Bidders (ITB)
  - Section II - Evaluation and Qualification Criteria
  - Section III - Bidding Forms
- PART 2- Supply Requirements**
- Section IV - Technical Specifications
  - Section V - Schedule of Requirements and Reference Time Schedules
- 2.2 BVIEC is not responsible for the completeness of the bidding document and their addendum, if they were not obtained directly from BVIEC.
- 2.3 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding document. Failure to furnish all information or documentation required by the bidding document may result in the rejection of the bid.

**3. Clarification of Bidding Document**

3.1 A prospective Bidder requiring any clarification of the bidding document shall contact BVIEC in writing at the e-mail contact established in the Invitation Letter. BVIEC will respond in writing to any request for clarification, provided that such request is received no later than twenty-one (21) calendar days prior to the deadline for submission of bids. BVIEC shall forward copies of its response to all those who have acquired the bidding document directly from it, including a description of the inquiry but without identifying its source. Should BVIEC deem it necessary to amend the bidding document as a result of a clarification, it shall do so, at its discretion, and notify relevant Bidders.

**4. Amendment of Bidding Document**

4.1 At any time prior to the deadline for submission of bids, BVIEC may amend the bidding document by issuing an addendum thereto.

4.2 Any addendum issued shall be part of the bidding document and shall be communicated in writing to all who have obtained the bidding document directly from BVIEC.

- 4.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, BVIEC may, at its discretion, extend the deadline for the submission of bids.

### **C. Preparation of Bids**

#### **5. Cost of Bidding**

- 5.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and BVIEC shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

#### **6. Language of Bid**

- 6.1 The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and BVIEC, shall be written in English. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages into English, in which case, for purposes of interpretation of the Bid, such translation shall govern.

**7. Documents  
Comprising the  
Bid**

- 7.1 The Bid shall comprise the following:
- (a) **Letter of Bid** prepared in accordance with ITB 8;
  - (b) **Price Schedules Forms:** completed in accordance with ITB 8 and ITB 9, and Section K;
  - (c) **Authorization:** written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 14.3;
  - (d) **Manufacturer's Authorization Form:** completed in accordance with ITB 12.1;
  - (e) **Qualifications:** documentary evidence in accordance with ITB 12 establishing the Bidder's qualifications to perform the Contract if its Bid is accepted;
  - (f) **Conformity:** documentary evidence in accordance with ITB 11 and 21, that the Goods and Related Services conform to the bidding document;
  - (g) **Compliance Check List Forms:** establishing the Compliance of the Goods and Services, as the Form included in the Section M of Section III - Bidding Forms.
  - (h) **Schedule of Requirements Forms and Time Schedule for the Implementation Project:** prepared in accordance with Section V – Schedule of Requirement Forms;
  - (i) any other document required in the RFP.
- 7.2 In addition to the requirements under ITB 7.1, Bids submitted by a Joint Venture 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.

**8. Letter of Bid and  
Price Schedules**

- 8.1 The Letter of Bid and Price Schedules shall be prepared using the relevant forms furnished in Section III - Bidding Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITB 14.3. All blank spaces shall be filled in with the information requested.



**9. Bid Prices and Discounts**

- 9.1 The prices and discounts quoted by the Bidder in the Letter of Bid and in the Price Schedules shall conform to the requirements specified below.
- 9.2 All lots (contracts) and items must be listed and priced separately in the Price Schedules.
- 9.3 The price to be quoted in the Letter of Bid in accordance with ITB 8.1 shall be the total price of the Bid, excluding any discounts offered.
- 9.4 The Bidder shall quote any discounts and indicate the methodology for their application in the Letter of Bid, in accordance with ITB 8.1.
- 9.5 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account, A Bid submitted with an adjustable price quotation shall be treated as nonresponsive and shall be rejected, pursuant to ITB 20. However, prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract, a Bid submitted with a fixed price quotation shall not be rejected, but the price adjustment shall be treated as zero.
- 9.6 If so specified in ITB 1.1, Bids are being invited for individual lots (contracts) or for any combination of lots (packages). The prices quoted shall correspond to 100% of the items specified for each lot and to 100% of the quantities specified for each item of a lot.
- 9.7 The terms EXW, CIP, and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms 2020, published by the International Chamber of Commerce.
- 9.8 Prices shall be quoted as specified in each Price Schedule included in Section III - Bidding Forms. The disaggregation of price components is required solely for the purpose of facilitating the comparison of Bids by BVIEC. This shall not in any way limit BVIEC's right to contract on any of the terms offered. Prices shall be entered in the following manner:
  - (a) For Goods to be imported:
    - (i) the price of the Goods, quoted CIP named place of destination, the British Virgin Islands;
    - (ii) the price for inland transportation, insurance, and other local services required to convey the Goods from the named place of destination to their final destination (Project Site) in BVIEC's facilities at Pockwood Pond, Tortola, British Virgin Islands.

- 10. Currencies of Bid and Payment**
- 10.1 The currency(ies) of the Bid and the currency(ies) of payments shall be the same. The Bidder shall quote in Dollars of the United States of North America.
- 11. Documents Establishing the Conformity of the Goods and Related Services**
- 11.1 To establish the conformity of the Goods and Related Services to the bidding document, the Bidder shall furnish as part of its Bid the documentary evidence that the Goods conform to the technical specifications and standards specified in Section V - Schedule of Requirements.
- 11.2 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specification.
- 11.3 The Bidder shall also furnish a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the warranty period.
- 11.4 Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by BVIEC in Section V - Schedule of Requirements, are intended to be descriptive only and not restrictive. The Bidder may offer other standards of quality, brand names, and/or catalogue numbers, provided that it demonstrates, to BVIEC's satisfaction, that the substitutions ensure substantial equivalence to internationally accepted standards and comply with, or are superior to, those specified in the Section V - Schedule of Requirements.

**12. Documents  
Establishing the  
Qualifications of  
the Bidder**

- 12.1 The documentary evidence of the Bidder's qualifications to perform the Contract if its Bid is accepted shall establish to BVIEC's satisfaction:
- (a) That a Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section III - Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in the British Virgin Islands;
  - (b) That in case of a Bidder not doing business within the British Virgin Islands, the Bidder is or will be (if awarded the Contract) guarantee to carry out the Supplier's maintenance, repair and spare parts-stocking obligations, and
  - (c) That the Bidder meets each of the qualification criterion specified in Section II - Evaluation and Qualification Criteria.

**13. Period of Validity  
of Bids**

- 13.1 Bids shall remain valid for the Bid Validity period at least ten (10) weeks. The Bid Validity period starts from the date fixed for the Bid submission deadline (as prescribed by BVIEC in the Invitation Letter). A Bid valid for a shorter period shall be rejected by BVIEC as nonresponsive.
- 13.2 In exceptional circumstances, prior to the expiration of the Bid validity period, BVIEC may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing. If a Bid Security is requested, it shall also be extended for a corresponding period. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its Bid.

**14. Format and  
Signing of Bid**

- 14.1 The Bidder shall prepare one original of the documents comprising the Bid as described in ITB 7 and clearly mark it "ORIGINAL." In addition, the Bidder shall submit two (2) copies of the Bid and clearly mark them "COPY 1" and "COPY 2". Also, it is required to submit an electronic copy of the Bid using USB Flash Drive. In the event of any discrepancy between the original and the copies, the original shall prevail.
- 14.2 Bidders shall mark as "CONFIDENTIAL" information in their Bids which is confidential to their business. This may include proprietary information, trade secrets, or commercial or financially sensitive information.

- 14.3 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid where entries or amendments have been made shall be signed or initialed by the person signing the Bid.
- 14.4 In case the Bidder is a Joint Venture (JV), the Bid shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.
- 14.5 Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.

#### **D. Submission and Opening of Bids**

##### **15. Sealing and Marking of Bids**

- 15.1 The Bidder shall deliver the Bid in a single, sealed envelope (one-envelope Bidding process). Within the single envelope the Bidder shall place the following separate, sealed envelopes:
- (a) in an envelope marked “Original”, all documents comprising the Bid, as described in ITB 7;
  - (b) in an envelope marked “Copies”, all required copies of the Bid; and
  - (c) Electronic files of the proposal in a USB Flash Drive.

##### **16. Deadline for Submission of Bids**

- 16.1 Bids must be received by BVIEC at the address and no later than the date and time specified in the **Invitation Letter**. As specified in ITB 15.1, Bidders shall have the option of submitting their Bids electronically.
- 16.2 BVIEC may, at its discretion, extend the deadline for the submission of Bids by amending the bidding document in accordance with ITB 4, in which case all rights and obligations of BVIEC and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

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

### **17. Confidentiality**

- 17.1 Information relating to the evaluation of Bids and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with the Bidding process until the information on Intention to Award the Contract is transmitted to all Bidders.
- 17.2 Any effort by a Bidder to influence BVIEC in the evaluation or contract award decisions may result in the rejection of its Bid.
- 17.3 Notwithstanding ITB 17.2, from the time of Bid opening to the time of Contract Award, if any Bidder wishes to contact BVIEC on any matter related to the Bidding process, it should do so in writing.

### **18. Clarification of Bids**

- 18.1 To assist in the examination, evaluation, comparison of the Bids, and qualification of the Bidders, BVIEC may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid and that is not in response to a request by BVIEC shall not be considered. BVIEC's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by BVIEC in the Evaluation of the Bids, in accordance with ITB 22.
- 18.2 If a Bidder does not provide clarifications of its Bid by the date and time set in BVIEC's request for clarification, its Bid may be rejected.

**19. Deviations,  
Reservations, and  
Omissions**

- 19.1 During the evaluation of Bids, the following definitions apply:
- (a) “*Deviation*” is a departure from the requirements specified in the bidding document;
  - (b) “*Reservation*” is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the bidding document; and
  - (c) “*Omission*” is the failure to submit part or all of the information or documentation required in the bidding document.

**20. Determination of  
Responsiveness**

- 20.1 BVIEC’s determination of a Bid’s responsiveness is to be based on the contents of the Bid itself, as defined in ITB 7.
- 20.2 A substantially responsive Bid is one that meets the requirements of the bidding document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:
- (a) if accepted, would:
    - (i) affect in any substantial way the scope, quality, or performance of the Goods and Related Services specified in the Contract; or
    - (ii) limit in any substantial way, inconsistent with the bidding document, BVIEC’s rights or the Bidder’s obligations under the Contract; or
  - (b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive Bids.
- 20.3 BVIEC shall examine the technical aspects of the Bid submitted in accordance with ITB 11 and ITB 12, in particular, to confirm that all requirements of Section V - Schedule of Requirements have been met without any material deviation or reservation, or omission.
- 20.4 If a Bid is not substantially responsive to the requirements of bidding document, it shall be rejected by BVIEC and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

- 21. Nonconformities, Errors and Omissions**
- 21.1 Provided that a Bid is substantially responsive, BVIEC may waive any nonconformities in the Bid.
- 21.2 Provided that a Bid is substantially responsive, BVIEC may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.
- 21.3 Provided that a Bid is substantially responsive, BVIEC shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component.
- 22. Correction of Arithmetical Errors**
- 22.1 Provided that the Bid is substantially responsive, BVIEC shall correct arithmetical errors on the following basis:
- (a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of BVIEC there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;
  - (b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
  - (c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.
- 22.2 Bidders shall be requested to accept correction of arithmetical errors. Failure to accept the correction in accordance with ITB 22.1, shall result in the rejection of the Bid.
- 23. Conversion to Single Currency**
- 23.1 For evaluation and comparison purposes, if the Prices are not in the currency(ies) prescribed in the ITB 10.1, the currency(ies) of the Bid shall be converted in a single currency Dollars of the United States of North America.

**24. Evaluation of Bids**

- 24.1 BVIEC shall use the criteria and methodologies listed in this ITB and Section II - Evaluation and Qualification Criteria. No other evaluation criteria or methodologies shall be permitted.
- 24.2 To evaluate a Bid, BVIEC shall consider the following:
- (a) evaluation will be done for Items or Lots (contracts), as specified in ITB 1.1; and the Bid Price as quoted in accordance with ITB 9;
  - (b) price adjustment for correction of arithmetic errors in accordance with ITB 22.1;
  - (c) price adjustment due to discounts offered in accordance with ITB 9.4;
  - (d) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITB 23;
  - (e) price adjustment due to quantifiable nonmaterial nonconformities in accordance with ITB 21.3; and
  - (f) the additional evaluation factors are specified in Section II - Evaluation and Qualification Criteria.
- 24.3 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.
- 24.4 If this bidding document allows Bidders to quote separate prices for different lots (contracts), the methodology to determine the lowest evaluated cost of the lot (contract) combinations, including any discounts offered in the Letter of Bid, is specified in Section II - Evaluation and Qualification Criteria.
- 24.5 BVIEC's evaluation of a Bid may require the consideration of other factors, in addition to the Bid Price quoted in accordance with ITB 9. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of Bids from amongst those set out in Section II - Evaluation and Qualification Criteria. The criteria and methodologies to be used shall be as specified in ITB 24.2(f).

**25. Abnormally Low Bids**

- 25.1 An Abnormally Low Bid is one where the Bid price, in combination with other constituent elements of the Bid, appears unreasonably low to the extent that the Bid price raises material



concerns with BVIEC as to the capability of the Bidder to perform the Contract for the offered Bid price.

- 25.2 In the event of identification of a potentially Abnormally Low Bid, BVIEC shall seek written clarification from the Bidder, including a detailed price analyses of its Bid price in relation to the subject matter of the contract, scope, delivery schedule, allocation of risks and responsibilities and any other requirements of the bidding document.
- 25.3 After evaluation of the price analyses, in the event that BVIEC determines that the Bidder has failed to demonstrate its capability to perform the contract for the offered Bid price, BVIEC shall reject the Bid.

## **F. Award of Contract**

### **26. Purchaser's Right to Accept Any Bid, and to Reject Any or All Bids**

- 26.1 BVIEC reserves the right to accept or reject any Bid, and to annul the Bidding process and reject all Bids at any time prior to Contract Award, without thereby incurring any liability to Bidders. In case of annulment, all Bids submitted and specifically, bid securities, shall be promptly returned to the Bidders.

**27. Notification of Award**

- 27.1 Prior to the expiration of the Bid Validity Period or any extension thereof, BVIEC shall notify the successful Bidder, in writing, that its Bid has been accepted. The notification of award shall specify the sum that BVIEC will pay the Supplier in consideration of the execution of the Contract.
- 27.2 Within ten (10) Business Days after the date of transmission of the Letter of Acceptance, BVIEC shall publish the Contract Award Notice.
- 27.3 The Contract Award Notice shall be published on BVIEC's website with free access if available.
- 27.4 Until a formal Contract is prepared and executed, the Letter of Acceptance shall constitute a binding Contract.

**28. Signing of Contract**

- 28.1 BVIEC shall send to the successful Bidder the Letter of Acceptance including the Contract Agreement.
- 28.2 The successful Bidder shall sign, date and return to BVIEC, the Contract Agreement within twenty-eight (28) days of its receipt.

**29. Performance Security**

- 29.1 Within twenty-eight (28) days of the receipt of Letter of Acceptance from BVIEC, the successful Bidder, if required, shall furnish the Performance Security. If the Performance Security furnished by the successful Bidder is in the form of a bond, it shall be issued by a bonding or insurance company that has been determined by the successful Bidder to be acceptable to BVIEC. A foreign financial institution providing a bond shall have a correspondent financial institution located in the British Virgin Islands, unless BVIEC has agreed in writing that a correspondent financial institution is not required.
- 29.2 Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event BVIEC may award the Contract to the Bidder offering the next Most Advantageous Bid.

## SECTION II - EVALUATION AND QUALIFICATION CRITERIA

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*This Section contains the criteria that BVIEC shall use to evaluate a Bid and qualify the Bidders. No other factors, methods or criteria shall be used other than specified in this bidding document.*

### G. Evaluation of Bids (ITB 24)

BVIEC's evaluation of a bid may take into account, in addition to the Bid Price quoted in accordance with ITB 9, one or more of the following factors as specified in ITB 24.2 (f) and in reference to ITB 24.5, using the following criteria and methodologies.

#### 30. Qualification of the Bidder (ITB 12.1 (c))

Bidder shall comply with the qualification criteria specified in this section, including financial capacity, experience and technical capacity, documentary evidence and legal capacity.

A. If Bidder is a manufacturer:

1. **Financial Capacity:** Bidders for each and/or all lots must comply with the financial requirements established by BVIEC. These requirements are:
  - a. *Minimum average annual turnover of USD 250,000 within the last five (5) years (use form: Average Annual Turnover in Section III – Bidding Forms).*
  - b. *The bidder shall demonstrate capacity to have a cash flow amount of at least US\$100,000.*
  - c. *The following financial ratios should be accomplished:*
    - *Current ratio  $\geq 1$*
    - *Debt ratio  $\leq 0.9$*
2. **Experience and Technical Capacity:** The Bidders must comply with these qualification Criteria:
  - a. *Experience and Technical Capacity for Lot 1:*

The Bidder shall furnish documentary evidence to demonstrate that it complies with the following requirement:

- *A track record of similar<sup>1</sup> projects; Bidder shall demonstrate that has successfully completed at least two (2) projects and (1) under execution project of similar nature of BVIEC's in the past five (5) years.*
- *The bidder shall designate a qualified project manager with at least five (5) years of experience in the execution of similar projects.*

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<sup>1</sup> "similar projects of Lot 1" are projects regarding Grid Automation supplying SCADA/DMS/OMS solutions for the electrical distribution companies.

b. *Experience and Technical Capacity for Lot 2:*

The Bidder shall furnish documentary evidence to demonstrate that it complies with the following requirements:

- *A track record of similar<sup>2</sup> projects; Bidder shall demonstrate that has successfully completed at least three (3) projects of similar nature in the past five (5) years.*
- *The bidder shall designate a qualified project manager with at least five (5) years of experience in the execution of similar projects.*

c. *Experience and Technical Capacity for Lot 3:*

The Bidder shall furnish documentary evidence to demonstrate that it complies with the following requirements:

- *A track record of similar<sup>3</sup> projects; Bidder shall demonstrate that has successfully completed at least three (3) projects of similar nature in the past five (5) years.*
- *The bidder shall designate a qualified project manager with at least five (5) years of experience in the execution of similar projects.*

**3. Documentary Evidence:**

The Bidder shall furnish documentary evidence to demonstrate that as provided all the documentation as established in ITB 7.

**4. Legal**

The Bidder shall furnish documentary evidence that it meets the following legal requirement(s):

- *The Bidder shall provide evidence its due incorporation and good standing under its jurisdiction of incorporation.*
- *The B bidder shall provide a certificate of incumbency or equivalent document identifying its directors and shareholders or equivalent persons.*
- *The bidder shall be established and registered at the chamber of commerce (or equivalent entity in its country) for at least five (5) years.*
- *No consistent history of contract non-performance in the past five (5) years.*
- *That the bidder is current with its payment obligations to its local government i.e taxes and any other obligations. Acceptable forms of confirmation are Good standing certificates or equivalent or on an exceptional basis, an affidavit if such documents are not issued in their origin country. The affidavit must exclusively state that such documentation is not issued by their origin country and that bidder affirms that they are in full compliance with laws and obligations of their domiciliary*

**B. If Bidder is not a manufacturer:**

If a Bidder is not a manufacturer, but is offering the Goods on behalf of the Manufacturer, shall submit the Manufacturer's Authorization Form (as established in Section III - Bidding

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<sup>2</sup> “similar projects of Lot 2” are projects regarding Grid Automation supplying and installing substation RTUs for electrical distribution companies.

<sup>3</sup> “similar projects of Lot 3” are projects regarding Grid Automation supplying and installing Distribution Automation Field Devices for electrical distribution companies.

Forms), and the Manufacturer shall demonstrate the above qualifications criteria in 1, 2, and 3.

### **31. Technical Evaluation Criteria (ITB 24.1 (c))**

After determining the substantially responsive Bid is qualified fulfilling with the criteria established in the ITB 30, the Bidder shall comply with the requirements as specified in Section IV – Technical Specifications.

#### **(a) Technical Score Calculation:**

The technical evaluation criteria are based on the Technical Specifications as provided in Section IV. The Technical Evaluation would be based in the calculation of technical score, which would be achieved under a merit scale. The technical characteristics of the hardware and software of the systems to be supplied under the Lots 1, 2, and 3 and the support and implementation services associated with the implementation of the projects. The technical score will be calculated according to the following equation:

$$TS_i = \sum_j (s_{ij} \cdot p_j)$$

Where,

$TS_i$  = Technical Score of the Offer  $i$

$s_{ij}$  = Bid Score  $i$  in aspect  $j$

$p_j$  = Percentage of Weight Assigned to aspect  $j$

Only the Technical Proposals that get a minimum Technical Score (TS) of eighty (80) points would be economically evaluated. It is considered that scores below 80 points will not guarantee compliance with the minimum technical considerations required.

For the calculation of the Technical Score (TS) of the Proposal, the factors and percentages of weighting that refer to the sections of the Technical Specifications will be considered.

#### **(b) Weighting Factors:**

The following tables presents a summary of the percentage weighting factors for each of the aspects associated with compliance with each Chapter of the Technical Specifications for each Lot:

**Table 1.- Weighting Factors for Technical Evaluation of Lot 1.**

# Chapter of Technical Specifications	Chapter Name	Chapter Weighting Factor (%)
3	General Requirements of SCADA/DMS/OMS	5%
4	Technical Requirements of Hardware	7%
5	User Interface Requirements	8%
6	Functional Specifications for SCADA	15%
7	Functional Specifications for DMS	20%
8	Functional Specifications for OMS	20%
9	System Interfaces	15%
10	Services Associated for the Project Implementation	10%
	<b>Total Technical Score (TS)</b>	<b>100%</b>

**Table 2.- Weighting Factors for Technical Evaluation of Lot 2.**

# Section of Technical Specifications	Section Name	Chapter Weighting Factor (%)
1.1	Requirements of the RTUs Architecture	15%
1.2	Functional Requirements	20%
1.3	Hardware Requirements	20%
1.4	Requirements for Associated Services	15%
1.5	General Security Considerations	15%
1.6	Requirements for Support and Maintenance Services	15%
	<b>Total Technical Score (TS)</b>	<b>100%</b>

**Table 3.- Weighting Factors for Technical Evaluation of Lot 3.**

# Section of Technical Specifications	Section Name	Chapter Weighting Factor (%)
1.1	Distribution Automation (DA) in BVIEC	5%
1.2	General Technical Requirement for All Devices	10%
1.3	Technical Specifications of Automatic Circuit Reclosers (ACR)	30%
1.4	Technical Specifications of Remote Fault Indicators (RFI)	30%
1.5	Spare Parts for All DA Field Devices	5%
1.6	Real-Time Signals to be Integrated to SCADA/DMS/OMS	20%
	<b>Total Technical Score (TS)</b>	<b>100%</b>

**32. Evaluation of the Prices and the Most Advantageous Bid**

BVIEC will evaluate those economic Bids that comply with all the requirements established in items 30 and 31 above.

By applying the criteria and methodologies, BVIEC shall determine the Most Advantageous Bid, which is the Bid of the Bidder that meets the qualification criteria and whose Bid has been determined to be:

- (a) substantially responsive to the bidding document; and
- (b) the lowest evaluated cost.

The most responsive bid will be selected in accordance with ITB 24.

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## **SECTION III - BIDDING FORMS**

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## H. Letter of Bid

***INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT***

*The Bidder must prepare this Letter of Bid on stationery with its letterhead clearly showing the Bidder's complete name and business address.*

*In respect to the statement on commissions, bonuses or fees, services it may be for example, payments to, or through, individuals or entities that are authorized to act on behalf of the Bidder to advance the interests of the Bidder in relation to this process of bidding or execution of the Contract.*

*Note: All italicized text is to help Bidders in preparing this form.*

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

**RFP No.:** *[insert number of this bidding process]*

**To:** *[insert complete name BVIEC]*

- (a) **No reservations:** We have examined and have no reservations to the Bidding Document, including Addenda issued in accordance with ITB 4;
- (b) **Conformity:** We offer to provide design, supply and installation services in conformity with the bidding document of the following: *[insert a brief description of the Goods and Related Services for each Lot that is participating]*;
- (c) **Bid Price:** The total price of our Bid, excluding any discounts offered in item (d) below is: *[Insert one of the options below as appropriate]*

Option 1, in case of one lot: Total price is: *[insert the total price of the Bid in words and figures, indicating the various amounts and the respective currencies]*;

*Or*

Option 2, in case of multiple lots: (a) Total price of each lot *[insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies]*; and (b) Total price of all lots (sum of all lots) *[insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies]*;

(d) **Discounts:** The discounts offered and the methodology for their application are:

- (i) The discounts offered are: *[Specify in detail each discount offered.]*

- (ii) The exact method of calculations to determine the net price after application of discounts is shown below: *[Specify in detail the method that shall be used to apply the discounts]*;
- (e) **Bid Validity Period:** Our Bid shall be valid for the period specified in ITB 13.1 (as amended if applicable) from the date fixed for the Bid submission deadline specified in the Invitation Letter (as amended if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) **Performance Security:** If our Bid is accepted, we commit to obtain a Performance Security in accordance with ITB 29;
- (g) **One Bid Per Bidder:** We are not submitting any other Bid(s) as an individual Bidder, and we are not participating in any other Bid(s) as a Joint Venture member;
- (h) **Binding Contract:** We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- (i) **Not Bound to Accept:** We understand that BVIEC is not bound to accept the Most Advantageous Bid or any other Bid that you may receive;
- (j) **Best and Final Offer or Negotiations:** We understand that BVIEC will use the Best and Final Offer method in the evaluation of bids or Negotiations in the evaluation and final award.
- (k) **Prohibited Practices:** We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf engages in any type of Prohibited Practice;

**Name of the Bidder:** *\*[insert complete name of person signing the Bid]*

**Name of the person duly authorized to sign the Bid on behalf of the Bidder:** *\*\* [insert complete name of person duly authorized to sign the Bid]*

**Title of the person signing the Bid:** *[insert complete title of the person signing the Bid]*

**Signature of the person named above:** *[insert signature of person whose name and capacity are shown above]*

**Date signed** *[insert date of signing]* **day of** *[insert month]*, *[insert year]*

Date signed \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_

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

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

## I. Bidder Information Form

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

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

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

Page \_\_\_\_\_ of \_\_\_\_\_ pages

1. Bidder's Name <i>[insert Bidder's legal name]</i>
2. In case of JV, legal name of each member: <i>[insert legal name of each member in JV]</i>
3. Bidder's current or intended country of registration: <i>[insert actual or intended country of registration]</i>
4. Bidder's year of registration: <i>[insert Bidder's year of registration]</i>
5. Bidder's Address in country of registration: <i>[insert Bidder's legal address in country of registration]</i>
6. Bidder's Authorized Representative Information  Name: <i>[insert Authorized Representative's name]</i> Address: <i>[insert Authorized Representative's Address]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i>  <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above.  <input type="checkbox"/> In case of JV, letter of intent to form JV or JV agreement.
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

## J. Bidder's JV Members Information Form

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

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

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

Page \_\_\_\_\_ of \_\_\_\_\_ pages

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

## **K. Price Schedule Forms**

*[The Bidder shall fill in these Price Schedule Forms in accordance with the instructions indicated. The list of line items in column 1 of the **Price Schedules** shall coincide with the List of Goods and Related Services specified by the Purchaser in the Schedule of Requirements.]*

**Table 4.- Price Schedule: Goods to be Imported (Lot 1: SCADA/DMS/OMS).**

(Goods to be imported)						
Currencies in accordance with ITB 10						
					Date: _____	
					RFP No: _____	
					Page N° _____ of _____	
1	2	3	4	5	6	7
Line Item N°	Description of Goods	Quantity (physical unit)	Unit price CIP in accordance with ITB 9.8	CIP Price per line item (Col. 3x4)	Price per line item for inland transportation and other services required in BVI to convey the Goods to BVIEC's Facilities	Total Price per Line item (Col. 5+6)
<b>H.</b>	<b>HARDWARE</b>					
<b>H.1</b>	<b>SERVERS ROOM</b>					
H.1.1	SCADA /DMS/OMS Host Server	2				
H.1.2	External Archive Storage Server	1				
H.1.3	External Firewalls & Router	2				
H.1.4	Internal Firewalls	2				
H.1.5	Switches	2				
H.1.6	LAN	1				
H.1.7	Time Synchronization Unit	1				
H.1.8	Servers Cabinet (Including KVM)	2				
<b>H.2</b>	<b>USER INTERFACE EQUIPMENT</b>					
H.2.1	SCADA/DMS Operational Workstations (3 monitors 24")	2				
H.2.2	OMS Operational Workstations (3 monitors)	2				
H.2.3	Videowall System (2x2) with 55" LCD monitors + controller + supporting framework	1				
<b>H.3</b>	<b>EUS/QADS &amp; INTEGRATION</b>					
H.3.1	EUS/QADS & INTEGRATION Host Server	1				
H.3.2	Operator Workstation (3-Monitors 24")	1				
<b>H.4</b>	<b>DTS SYSTEM</b>					
H.4.1	DTS Host Server	1				
H.4.2	Instructor/Trainee Workstations (3-Monitore 24")	2				
<b>H.5</b>	<b>OTHER COMPONENTS</b>					
H.5.1	Console Furniture Operators-QADS & DTS Areas (Including chairs)	7				
<b>H.6</b>	<b>SPARE PARTS</b>					
H.6.1	Server	1				

(Goods to be imported) Currencies in accordance with ITB 10					Date: _____ RFP No: _____ Page N° _____ of _____	
1	2	3	4	5	6	7
Line Item N°	Description of Goods	Quantity (physical unit)	Unit price CIP in accordance with ITB 9.8	CIP Price per line item (Col. 3x4)	Price per line item for inland transportation and other services required in BVI to convey the Goods to BVIEC's Facilities	Total Price per Line item (Col. 5+6)
H.6.2	User Interface Equipment: Workstation	1				
H.6.3	Video Projection System Monitor	1				
H.6.4	LAN Switch	1				
H.6.5	Firewall	1				
H.4.6	Hot swappable HDD for servers	4				
H.6.7	Redundant Multiport Router	1				
H.6.8	Hot swappable Disks for External Archive Storage Unit	2				
<b>S.</b>	<b>SOFTWARE</b>					
<b>S.1</b>	<b>SCADA SYSTEM</b>					
S.1.1	SCADA Software (1)	1				
<b>S.2</b>	<b>VIRTUALIZED SOLUTION</b>					
S.2.1	Hypervisor system and OS (2)	12				
<b>S.3</b>	<b>DMS SYSTEM</b>					
S.3.1	DMS Operation Applications (3)	1				
S.3.2	DMS Network Analysis Functions (4)	1				
S.3.3	Distribution Load Forecasting (DLF) - Optional	1				
S.3.4	Operator Training Simulator (OTS)	1				
<b>S.4</b>	<b>OMS SYSTEM</b>					
S.4.1	Trouble Call Management (TCS)	1				
S.4.2	Outage Engine	1				
<b>S.5</b>	<b>IT/OT APPLICATIONS INTERFACE</b>					
S.5.1	Interface with IT/OT Applications (5)	1				
<b>S.7</b>	<b>COMMUNICATION SYSTEM (CONTROL CENTER / RTUS)</b>					
S.7.1	Communication Protocols Software	1				
	<i>Add hardware or software if it is required</i>					

(Goods to be imported)					Date: _____	
Currencies in accordance with ITB 10					RFP No: _____	
					Page N° _____ of _____	
1	2	3	4	5	6	7
Line Item N°	Description of Goods	Quantity (physical unit)	Unit price CIP in accordance with ITB 9.8	CIP Price per line item (Col. 3x4)	Price per line item for inland transportation and other services required in BVI to convey the Goods to BVIEC's Facilities	Total Price per Line item (Col. 5+6)
<i>[insert number of the item]</i>	<i>[insert name of good]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price CIP per unit]</i>	<i>[insert total CIP price per line item]</i>	<i>[insert the corresponding price per line item]</i>	<i>[insert total price of the line item]</i>
<b>Total Price of Goods to be Imported (Lot 1: SCADA/DMS/OMS)</b>						
Name of Bidder <i>[insert complete name of Bidder]</i>			Signature of Bidder <i>[signature of person signing the Bid]</i>			Date <i>[Insert Date]</i>

(1)	<p><b><u>Include:</u></b></p> <ul style="list-style-type: none"> <li>- Basic Software</li> <li>- User Interface</li> <li>- SCADA</li> <li>- HIS</li> </ul>	(4)	<p><b><u>Include:</u></b></p> <ul style="list-style-type: none"> <li>- Distribution Power Flow (DPF)</li> <li>- Distribution State Estimator (DSE)</li> <li>- Fault Level Analysis</li> </ul>
(2)	<p><b><u>Include:</u></b></p> <p>Hypervisor for virtualized architecture Operating System</p>	(5)	<p><b><u>Include:</u></b> mainly Interface with what is specified in Section 9 of the TE, including ArcGIS, CIS, MDMS/am, and WMS.</p>
(3)	<p><b><u>Include:</u></b></p> <ul style="list-style-type: none"> <li>- Network Topology Processor (NTP),</li> <li>- Fault Location, Isolation and Service Restoration (FLISR)</li> <li>- Optimal Network Reconfiguration (ONR)</li> </ul>		



**Table 5.- Price Schedule: Related Services (Lot 1: SCADA/DMS/OMS).**

Currencies in accordance with ITB 10			Date: _____ RFP No: _____ Page N° _____ of _____	
1	2	3	4	5
Service N°	Description of Services (excludes inland transportation and other services required in BVI to convey the goods to their final destination)	Quantity and physical unit	Unit Price	Total Price per Service (Col. 3x4)
1	Coordination and Participation on the Factory Acceptance Test (FAT)			
2	Coordination and Participation on the Site Acceptance Test (SAT) – Including Peer-To-Peer Test and Supervision of Availability Test			
3	Coordination and Participation on-site for the Installation and Commissioning of SCADA/DMS/OMS System			
4	Project Coordination and Engineering			
5	Preparation and Provision of System and Project Documentation			
6	Preparation and Conduct of the Training Program			
7	Installation for VPS & Furniture Console for 4 positions			
8	Support and Maintenance Services Under Warranty (2-year)			
9	Yearly Post-Guarantee Maintenance Services:			
	HW Post-Guarantee			
	SW Post-Guarantee			
	<i>Add services if it is required</i>			
<i>[insert number of the Service ]</i>	<i>[insert name of Services]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price per item]</i>	<i>[insert total price per item]</i>
			<b>Total Price of Related Services (Lot 1: SCADA/DMS/OMS)</b>	
Name of Bidder <i>[insert complete name of Bidder]</i>		Signature of Bidder <i>[signature of person signing the Bid]</i>		Date <i>[Insert Date]</i>

**Table 6.- Price Schedule: Goods to be Imported (Lot 2: Remote Terminal Units - RTUs).**

(Goods to be imported)						
Currencies in accordance with ITB 10				Date: _____		
				RFP No: _____		
				Page N° _____ of _____		
1	2	3	4	5	6	7
Line Item N°	Description of Goods	Quantity (physical unit)	Unit price CIP in accordance with ITB 9.8	CIP Price per line item (Col. 3x4)	Price per line item for inland transportation and other services required in BVI to convey the Goods to BVIEC's Facilities	Total Price per Line item (Col. 5+6)
<b>H.</b>	<b>HARDWARE</b>					
<b>H.1</b>	<b>Remote Terminal Units</b>	(Note 1)				
H.1.1	CPU Module					
H.1.2	I/O Modules	(Note 2)				
H.1.3	Communication Cards (Serial/Network)					
H.1.4	Time Synchronization Module					
H.1.5	AC/DC Power Unit					
H.1.6	Gateway	(Note 3)				
H.1.7	Global Positioning System (GPS)	(Note 4)				
H.1.8	HMI (PC Local Substation)					
<b>H.2</b>	<b>RTU Telecontrol Protocols Simulator</b>					
H.2.1	Laptop	2				
<b>H.3</b>	<b>SPARE PARTS</b>					
H.3.1	Lot of Spare Parts (Detail)	(Note 5)				
<b>S.</b>	<b>SOFTWARE</b>					
<b>S.1</b>	<b>RTUs</b>					
S.1.1	System & HMI Software	1				
S.1.2	Data Acquisition and Control Applications	1				
S.1.3	Tools for RTU Configuration and Programming	1				
S.1.4	Diagnosis Tools	1				
S.1.5	RTU Simulator Software	1				
	<i>Add hardware or software if it is required</i>					

(Goods to be imported)					Date: _____	
Currencies in accordance with ITB 10					RFP No: _____	
					Page N° _____ of _____	
1	2	3	4	5	6	7
Line Item N°	Description of Goods	Quantity (physical unit)	Unit price CIP in accordance with ITB 9.8	CIP Price per line item (Col. 3x4)	Price per line item for inland transportation and other services required in BVI to convey the Goods to BVIEC's Facilities	Total Price per Line item (Col. 5+6)
<i>[insert number of the item]</i>	<i>[insert name of good]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price CIP per unit]</i>	<i>[insert total CIP price per line item]</i>	<i>[insert the corresponding price per line item]</i>	<i>[insert total price of the line item]</i>
<b>Total Price of Goods to be Imported (Lot 2: Remote Terminal Units - RTUs)</b>						
<b>NOTES:</b>						
(1) RTU for each substation included in the Table 2 of the Section IV - Technical Specifications Lot 2 (2) Bidder shall define the modules required based on sizing specified in Table 1 of the Section IV - Technical Specifications Lot 2 (Including the 50% Expansion Capacity)				(3) Bidder can propose gateways if it is required and/or some modules are integrated (4) GPS should include antenna and all accessories required for its connection. (5) Bidder shall recommend and supply the spare parts at the card or module level which are required to guarantee the availability of the RTUs		
Name of Bidder <i>[insert complete name of Bidder]</i>		Signature of Bidder <i>[signature of person signing the Bid]</i>				Date <i>[Insert Date]</i>

**Table 7.- Price Schedule: Related Services (Lot 2: Remote Terminal Units - RTUs).**

Currencies in accordance with ITB 10			Date: _____ RFP No: _____ Page N° _____ of _____	
1	2	3	4	5
Service N°	Description of Services (excludes inland transportation and other services required in BVI to convey the goods to their final destination)	Quantity and physical unit	Unit price	Total Price per Service (Col. 4x5 or estimate)
1	Execute an detailed Site Survey for all BVIEC's substations			
2	Coordination and Participation on the Factory Acceptance Test (FAT)			
3	Coordination and Participation on the Site Acceptance Test (SAT) – Including Peer-To-Peer Test			
4	Project Coordination			
5	Engineering and Integration (Including configuration for all RTUs)			
6	Coordination and Participation on-site for the Installation and Commissioning of All RTUs			
7	Preparation and Provision of System and Project Documentation			
8	Preparation and Conduct of the Training Program			
9	Support and Maintenance Services Under Warranty (2-year)			
10	Yearly Post-Guarantee Maintenance Services			
	HW Post-Guarantee			
	SW Post-Guarantee			
<i>[insert number of the Service ]</i>	<i>[insert name of Services]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price per item]</i>	<i>[insert total price per item]</i>
<b>Total Price of Related Services (Lot 2: Remote Terminal Units - RTUs)</b>				
Name of Bidder <i>[insert complete name of Bidder]</i>		Signature of Bidder <i>[signature of person signing the Bid]</i>		Date <i>[Insert Date]</i>

**Table 8.- Price Schedule: Goods to be Imported (Lot 3: Distribution Automation Field Devices).**

(Goods to be imported)						
Currencies in accordance with ITB 10				Date: _____		
				RFP No: _____		
				Page N° _____ of _____		
1	2	3	4	5	6	7
Line Item N°	Description of Goods	Quantity (physical unit)	Unit price CIP in accordance with ITB 9.8	CIP Price per line item (Col. 3x4)	Price per line item for inland transportation and other services required in BVI to convey the Goods to BVIEC's Facilities	Total Price per Line item (Col. 5+6)
<b>H.</b>	<b>HARDWARE</b>					
<b>H.1</b>	<b>DA Field Devices</b>					
H.1.1	Automatic Circuit Reclosers – ACR 13.2 kV (Including Control Unit)	25				
H.1.2	Remote Fault Indicator – RFI 13.2 kV (Including Concentrator Unit)	34				
H.1.3	Materials for Erection and Installation of All DA Field Devices	As required by H.1.1 & H.1.2				
<b>H.2</b>	<b>Telecontrol Protocols Simulator</b>					
H.2.1	Laptop	2				
<b>H.3</b>	<b>SPARE PARTS</b>					
H.3.1	Automatic Circuit Recloser (ACR)	1				
H.3.2	Remote Fault Indicators (RFI)	1				
H.3.3	Control unit for ACR	1				
H.3.4	Concentrator Unit for RFI	1				
<b>S.</b>	<b>SOFTWARE</b>					
<b>S.1</b>	<b>DA Field Devices</b>					
S.1.1	Telecontrol Protocols Simulator Software	1				
	<i>Add hardware or software if it is required</i>					
<i>[insert number of the item]</i>	<i>[insert name of good]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price CIP per unit]</i>	<i>[insert total CIP price per line item]</i>	<i>[insert the corresponding price per line item]</i>	<i>[insert total price of the line item]</i>

(Goods to be imported)					Date: _____	
Currencies in accordance with ITB 10					RFP No: _____	
					Page N° _____ of _____	
1	2	3	4	5	6	7
Line Item N°	Description of Goods	Quantity (physical unit)	Unit price CIP in accordance with ITB 9.8	CIP Price per line item (Col. 3x4)	Price per line item for inland transportation and other services required in BVI to convey the Goods to BVIEC's Facilities	Total Price per Line item (Col. 5+6)
<b>Total Price of Goods to be Imported (Lot 3: Distribution Automation Field Devices)</b>						
Name of Bidder <i>[insert complete name of Bidder]</i>		Signature of Bidder <i>[signature of person signing the Bid]</i>				Date <i>[Insert Date]</i>

**Table 9.- Price Schedule: Related Services (Lot 3: Distribution Automation Field Devices).**

Currencies in accordance with ITB 10			Date: _____	
			RFP No: _____	
			Page N° _____ of _____	
1	2	4	5	6
Service N°	Description of Services (excludes inland transportation and other services required in BVI to convey the goods to their final destination)	Quantity and physical unit	Unit price	Total Price per Service (Col. 4x5 or estimate)
1	Execute an detailed Site Survey for all BVIEC’s Electrical Network			
2	Coordination and Participation on the Factory Acceptance Test (FAT)			
3	Coordination and Participation on the Site Acceptance Test (SAT) – Including Peer-To-Peer Test			
4	Project Coordination			
5	Engineering and Integration (Including configuration for all Field Devices)			
6	Coordination and Participation on-site for the Installation and Commissioning of All Field Devices			
7	Preparation and Provision of System and Project Documentation			
8	Preparation and Conduct of the Training Program			
9	Support and Maintenance Services Under Warranty (2-year)			
10	Yearly Post-Guarantee Maintenance Services			
	HW Post-Guarantee			
	SW Post-Guarantee			
	<i>Add services if it is required</i>			
<i>[insert number of the Service ]</i>	<i>[insert name of Services]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price per item]</i>	<i>[insert total price per item]</i>
<b>Total Price of Related Services (Lot 3: Distribution Automation Field Devices)</b>				
Name of Bidder <i>[insert complete name of Bidder]</i>		Signature of Bidder <i>[signature of person signing the Bid]</i>		Date <i>[Insert Date]</i>

## L. Manufacturer's Authorization Form

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

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

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

To: *[insert complete name of BVIEC]*

### WHEREAS

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

We hereby extend our full guarantee and warranty in accordance with the Contract, with respect to the Goods offered by the above firm.

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

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

Title: *[insert title]*

Dated on \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ *[insert date of signing]*



## M. Compliance Checklist Form

For Goods and Services in Part 2 - Section IV - Technical Specifications, the Compliance Checklist Form included in Form M of Section III - Bidding Forms must be completed and must indicate that these services and good are included in the commercial price proposal submitted. The Bidder must prepare this Compliance Checklist Form based on the following: The Bidder must place the corresponding symbols in the "Degree of Compliance" column of the Table, alongside a clear reference to their technical offer and explanatory comments on the degree of compliance.

- 1) **“FC” - Full Compliance:** This symbol will affirm that the goods and services proposed by the participating bidder will fully comply with the Technical Specifications contained in the corresponding numbered section. When these symbols are used, it will be understood that the participating bidder will be willing to enter into a contract without further definition, interpretation or clarification of the technical specification. A participating bidder may submit a comment in this case, but only with the understanding that the comment cannot become part of a contract. If the participating bidder believes that a comment may be material to a future Contract, the bidder must respond with a “CC” instead of “FC” indicating that the comment is an essential condition or clarification, meaning that its offer presents some non-substantial condition or deviation.
- 2) **“CC” – Conditional or Partial Compliance:** This symbol will indicate that the goods and services proposed by the participating Bidder conditionally or partially comply with the Technical Specifications contained in the corresponding numbered section, or present non-substantial deviations from the requirements. The participating Bidder must submit a comment in this case, explaining the conditions (which may be definitions, limits, specific interpretations, specific divisions of responsibility or other clarifications) or explaining the non-substantial deviation. In this case, participating Bidders must also indicate in an unambiguous manner those paragraphs of the Technical Specifications affected by their positions.
- 3) **“NC” - Non-compliance:** This symbol will indicate that the goods and services proposed by the Participating Bidder do not comply with or present substantial deviations from the Technical Specifications contained in the corresponding numbered section. This symbol must be included by the Participating Bidder that prefers not to provide a required characteristic, meet a specified level of performance, accept a specific condition or, for some other reason, is forced not to comply with the requirements of the associated section.
- 4) **“AW” – Aware:** When the point of the specifications is only a title, statement or an affirmation is made that does not imply a commitment or compliance by the participating Bidder.
- 5) **“ST” o “NST” – Standard and Non-Standard Condition,** respectively: In addition to placing only one of the above symbols, the Bidder must indicate in another column whether it is offering its standard system or is modifying it to meet the specified requirements.

**LOT 1 - SCADA/DMS/OMS  
COMPLIANCE CHECKLIST FORM**

N.º	Description	Degree of Compliance	Condition Standard/Non Standard	Reference to the Bidder's Offer	Comments
<b>3</b>	<b>General Requirements of SCADA/DMS/OMS</b>				
3.1	Key Design Criteria				
3.2	Conceptual and Implementation Architectures of SCADA/DMS/OMS				
3.2.1	Conceptual Information Architecture				
3.2.2	Implementation Architecture				
3.2.3	General Requirements of the Implementation Architecture				
3.3	System Sizing Requirements				
3.4	Expansion Requirements				
3.5	System Performance Requirements				
3.5.1	System Activity Levels				
3.5.2	Normal Activity Level				
3.5.3	High Activity Level				
3.6	Redundancy Criteria				
3.6.1	System Failsafe Capability				
3.6.2	Availability Requirements				
3.7	Control Configuration, Redundancy, and Failure Management				
3.7.1	System Management				
3.7.2	Server and Device Status				
3.7.3	Server and Device Interconnections				
3.7.4	Error Detection and Failure Determination				
3.7.5	Server Redundancy and Failure Management				
3.7.6	Server Failover				
3.8	Cybersecurity Requirements				
3.9	Virtualization Criteria and Definitions				
3.9.1	Definitions				
3.9.2	General Requirements				
3.9.3	Hypervisor characteristics				
3.9.4	Administration System				
3.9.5	Monitoring and Performance System				
3.9.6	Storage Management				
3.9.7	Cybersecurity Management				
3.9.8	Networking				
3.9.9	High Availability				
3.9.10	Backup				
3.10	Technical Standards				
<b>4</b>	<b>Requisitos de Disponibilidad, Capacidad y Desempeño</b>				
4.1	General Requirements				
4.2	Processing Units Subsystem – Virtualized Servers				
4.3	External Archive Storage Unit				
4.4	Networking Equipment for LAN and WAN				
4.4.1	System LAN Network				
4.4.2	Communications Interface Equipment				
4.5	User Interface Equipment				
4.5.1	Workstation				
4.5.2	Video Projection System				
4.6	Time Synchronization Unit				
4.7	Virtualized Server Cabinets and KVM				
4.7.1	Cabinets				
4.7.2	KVM for Administration				
4.8	Console Furniture				
4.8.1	Desk Operator Workstation				
4.8.2	Operator Chairs				
4.9	Other Requirements Associated to Hardware				
4.9.1	Installation and Assembly				
4.9.2	Equipment Construction Standards				
4.9.3	Operating Environment				
4.9.4	Spare Parts of SCADA/DMS/OMS Hardware				

<b>5</b>	<b>User Interface Requirements</b>				
5.1	General Functions				
5.1.1	General Display Format Requirements				
5.1.2	Display Zones				
5.1.3	Pan and Zoom				
5.1.4	Declutter Levels				
5.1.5	Dialog Menus				
5.1.6	Alphanumeric Data on Tables Display				
5.1.7	Graphic Data Display				
5.1.8	On-Line Help Facilities				
5.1.9	Areas of Responsibility				
5.1.10	Dynamic Network Coloring				
5.2	Operator Functions				
5.2.1	Display Call Up				
5.2.2	Deactivate/Activate Data Points				
5.2.3	Viewing Limitations				
5.2.4	LOGON/LOGOFF				
5.2.5	Function Key Usage				
5.2.6	Manual Replace				
5.2.7	General Data Entry				
5.3	Displays Requirements				
5.3.1	Directory Display				
5.3.2	Single Line Diagrams of Substations				
5.3.3	Single Line Diagrams of T&D Circuits				
5.3.4	Communications One-Line Displays				
5.3.5	Tabular Displays				
5.3.6	Operator Displays				
5.3.7	Geographic and Facility Information Displays				
5.3.8	Other Displays				
5.4	Alarm and Event Processing				
5.4.1	Alarm Classification and Annunciation				
5.4.2	Alarm Message Format				
5.4.3	Alarm and Event Recording				
5.4.4	Alarm Displays				
5.4.5	Alarm Management				
5.4.6	Alarm Audible Annunciation				
5.5	Intelligent Alarm Processing				
5.6	Trending Curves				
5.6.1	Trending Curves Library				
5.6.2	Historical Trending				
5.7	Reporting				
5.7.1	General				
5.7.2	Printing On-demand				
5.7.3	Printing Reports				
5.7.4	Reports				
5.8	Business Intelligence Reporting				
5.9	E-mail and SMS Messaging				
<b>6</b>	<b>Functional Specifications for SCADA</b>				
6.1	Data Acquisition				
6.1.1	General				
6.1.2	Data Acquisition Modes				
6.1.3	Error Detection and Recovery				
6.2	Data Processing				
6.2.1	Data Quality Codes				
6.2.2	Analog Data Processing				
6.2.3	Status Processing				
6.2.4	Processing of Non-Telemetered Data				
6.2.5	Data Plausibility				
6.2.6	Test Mode				
6.2.7	Telemetry Failure and Delete from Scan				
6.3	Sequence-Of-Events Data Collection				
6.4	Remote Control				
6.5	Switching Order Management (SOM)				
6.5.1	Manual Creation of Switching Orders				
6.5.2	Automatic Switching Order Creation and Execution				
6.5.3	Automatic Generation of a Restore Order				
6.5.4	Maintenance of Switching Orders				
6.5.5	Switching Order Execution and Checkout				
6.6	Emergency Load Shedding (ELS)				
6.7	Historical Information System (HIS)				
6.7.1	General Requirements				
6.7.2	HIS Database				
6.7.3	Management of HIS Accounts				
6.7.4	HIS Reports				
<b>7</b>	<b>Functional Specifications for DMS</b>				
7.1	Operational Distribution Functions				
7.1.1	Distribution System Operational Model (DSOM)				
7.1.2	Network Topology				
7.1.3	Fault Location, Isolation and Service Restoration (FLISR)				
7.1.4	Optimal Network Reconfiguration				
7.2	Distribution Network Analysis Functions				
7.2.1	Distribution Power Flow (DPF)				
7.2.2	Distribution State Estimator (DSE)				
7.2.3	Fault Level Analysis				
7.3	Distribution Load Forecasting (DLF) - Optional				
7.4	Operator Training Simulator (OTS)				

<b>8</b>	<b>Functional Specifications for OMS</b>				
8.1	Trouble Call Management (TCS)				
8.2	<b>Outage Engine</b>				
8.2.1	Outages Status Monitoring				
8.2.2	Outage Information System				
8.2.3	Outage Analysis				
8.2.4	Outage Resolution				
8.2.5	Outage Report Generation				
<b>9</b>	<b>System Interfaces</b>				
9.1	Integration Approach				
9.2	<b>Technical Requirements of External Interfaces</b>				
9.2.1	Between GIS and SCADA/DMS/OMS				
9.2.2	Between CIS and OMS				
9.2.3	Between MDMS/AMI and SCADA/DMS/OMS				
9.2.4	Between Work Management System (WMS) and OMS				
9.2.5	Between Call Center (Interactive Voice Response – IVR) and OMS (Future)				
<b>10</b>	<b>Services Associated for the Project Implementation</b>				
10.1	<b>Documentation Requirements</b>				
10.1.1	Requirements for Submission of Documents				
10.1.2	Format of Documents				
10.1.3	Review and Approval of Documents				
10.1.4	Documentation to be Delivered				
10.2	<b>Quality Assurance and Tests</b>				
10.2.1	Quality Assurance Program				
10.2.2	Responsibilities of the Tests				
10.2.3	Tests Documents				
10.2.4	Tests Records				
10.2.5	Recording and Resolution of Deviations				
10.2.6	Preliminary Factory Tests (Pre-FAT)				
10.2.7	Factory Acceptance Tests (FAT) for SCADA/DMS/OMS				
10.2.8	Site Acceptance Tests (SAT)				
10.2.9	Availability Tests				
10.3	<b>Training Requirements for SCADA/DMS/OMS</b>				
10.3.1	SCADA/DMS/OMS System Overview Course				
10.3.2	Database/Display Building Course				
10.3.3	Historical Information System Course				
10.3.4	System Administration Course				
10.3.5	Application Software Training Courses				
10.3.6	Hardware Maintenance Training Courses				
10.3.7	Operations Training Courses				
10.3.8	On-the-Job Training (OJT)				
10.4	<b>Project Implementation</b>				
10.4.1	Bidder Implementation Responsibilities				
10.4.2	BVIEC Responsibilities				
10.4.3	BVIEC Consulting Engineer				
10.4.4	Third Party Software				
10.4.5	Project Organization				
10.4.6	Project Management Documentation				
10.4.7	Project Safety Initiatives				
10.4.8	Testing, Shipping and Commissioning				
10.5	<b>Hardware and Software Maintenance</b>				
10.5.1	Scope				
10.5.2	Hardware Maintenance Services				
10.5.3	Software Maintenance				
10.5.4	Fault Analysis Reports				
10.5.5	Maintenance Contracts				
10.5.6	On-Call Maintenance Services				
10.5.7	Warranty Responsibilities				
10.5.8	Update and Information Services				

**LOT 2 - Remote Terminal Units (RTUs)  
COMPLIANCE CHECKLIST FORM**

N.º	Description	Degree of Compliance	Condition Standard/Non Standard	Offer Reference	Comments
<b>I</b>	<b>Technical Specifications of Remote Terminal Units (RTUs)</b>				
1.1	Requirements of the RTUs Architecture				
1.1.1	Minimum Design Features				
1.1.2	General Functions				
1.2	Functional Requirements				
1.2.1	Data Acquisition and Control Functions				
1.2.2	Tools for RTU Configuration and Programming				
1.2.3	Diagnosis Tools				
1.3	Hardware Requirements				
1.3.1	General Requirements				
1.3.2	Hardware Installation Requirements				
1.4	Requirements for Associated Services				
1.4.1	Documentation Requirements				
1.4.2	Tests Requirements				
1.4.3	Training Requirements				
1.4.4	Implementation Requirements				
1.5	General Security Considerations				
1.6	Requirements for Support and Maintenance Services				
1.6.1	Components of the Support and Maintenance Program				
1.6.2	Incidents Report				
1.6.3	Escalation Processes				
1.6.4	Maintenance During Warranty Period				

## LOT 3 - DISTRIBUTION AUTOMATION FIELD DEVICES

## COMPLIANCE CHECKLIST FORM

N.º	Description	Degree of Compliance	Condition Standard/Non Standard	Offer Reference	Comments
1	<b>Technical Specifications of Distribution Automation Field Devices</b>				
1.1	Distribution Automation (DA) in BVIEC				
1.2	General Technical Requirement for All Devices				
1.3	Technical Specifications of Automatic Circuit Reclosers (ACR)				
1.4	Technical Specifications of Remote Fault Indicators (RFI)				
1.5	Spare Parts for All DA Field Devices				
1.6	Real-Time Signals to be Integrated to SCADA/DMS/OMS				

## N. Average Annual Turnover

**Bidder's Legal Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**JVCA Member Legal Name:** \_\_\_\_\_ **RFP No.:** \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_ pages

Annual Turnover Data		
Year	Amount and Currency	USD Equivalent
2018		
2019		
2020		
2022		
2023		
*Average Annual Turnover		

\*Average annual turnover calculated as total certified payments received for work in progress or completed for the past 5 years.

## **PART 2 - Supply Requirements**



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## **SECTION IV - TECHNICAL SPECIFICATIONS**

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### **O. Lot 1: SCADA/DMS/OMS**

Please refer to following PDF Document:

Section IV-Tech Specs\_Lot 1\_BVIEC\_SCADA-DMS-OMS.PDF

**P. Lot 2: Remote Terminal Units (RTUs)**

Please refer to following PDF Document:

Section IV-Tech Specs\_Lot 2\_BVIEC\_RTUs.PDF

**Q. Lot 3: Distribution Automation Field Devices**

Please refer to following PDF Document:

Section IV-Tech Specs\_Lot 3\_BVIEC\_DA Field Devices.PDF

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**SECTION V - SCHEDULE OF REQUIREMENTS AND REFERENCE TIME  
SCHEDULES**

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## R. Lot 1: SCADA/DMS/OMS

### 33. List of Goods and Delivery Schedule

Line Item N°	Description of Goods	Qty	Named place of Destination in accordance with ITB 9.8	Delivery (as per Incoterms) Date		
				Earliest Delivery Date [in months after contract signing]	Latest Delivery Date [in months after contract signing]	Bidder's offered Delivery date [to be specified by the bidder in months after contract signing]
<b>H.</b>	<b>HARDWARE</b>					
<b>H.1</b>	<b>SERVERS ROOM</b>					
H.1.1	SCADA /DMS/OMS Host Server	2		8	10	
H.1.2	External Archive Storage Server	1		8	10	
H.1.3	External Firewalls & Router	2		8	10	
H.1.4	Internal Firewalls	2		8	10	
H.1.5	Switches	2		8	10	
H.1.6	LAN	1		8	10	
H.1.7	Time Synchronization Unit	1		8	10	
H.1.8	Servers Cabinet (Including KVM)	2		8	10	
<b>H.2</b>	<b>USER INTERFACE EQUIPMENT</b>					
H.2.1	SCADA/DMS Operational Workstations (3 monitors 24")	2		8	10	
H.2.2	OMS Operational Workstations (3 monitors)	2		8	10	
H.2.3	Video Projection System - 2x2 monitors 55" (Including Graphic Controller)	1		8	10	
<b>H.3</b>	<b>EUS/QADS &amp; INTEGRATION USER INTERFACE</b>					
H.3.1	EUS/QADS & INTEGRATION Host Server	1		8	10	
H.3.2	Operator Workstation (3-Monitors 24")	1		8	10	
<b>H.4</b>	<b>DTS SYSTEM</b>					
H.4.1	DTS Host Server	1		8	10	
H.4.2	Instructor/Trainee Workstations (3-Monitore 24")	2		8	10	

Line Item N°	Description of Goods	Qty	Named place of Destination in accordance with ITB 9.8	Delivery (as per Incoterms) Date		
				Earliest Delivery Date [in months after contract signing]	Latest Delivery Date [in months after contract signing]	Bidder's offered Delivery date [to be specified by the bidder in months after contract signing]
<b>H.5</b>	<b>OTHER COMPONENTS</b>					
H.5.1	Console Furniture Operators-QADS & DTS Areas (Including chairs)	7		6	8	
<b>H.6</b>	<b>SPARE PARTS</b>					
H.6.1	Server	1		18	20	
H.6.2	User Interface Equipment: Workstation	1		18	20	
H.6.3	Video Projection System Monitor	1		18	20	
H.6.4	LAN Switch	1		18	20	
H.6.5	Firewall	1		18	20	
H.6.6	Hot swappable HDD for servers	4		18	20	
H.6.7	Redundant Multiport Router	1		18	20	
H.6.8	Hot swappable Disks for External Archive Storage Unit	2		18	20	
<b>S.</b>	<b>SOFTWARE</b>					
<b>S.1</b>	<b>SCADA</b>					
S.1.1	SCADA Applications	1		8	10	
<b>S.2</b>	<b>Historical Information System (HIS)</b>					
S.2.1	HIS Software (Including Replicated Server)	1		8	10	
<b>S.3</b>	<b>DMS</b>					
S.3.1	Operational Applications	1		8	10	
S.3.2	Network Analysis DMS Applications	1		8	10	
S.3.3	Distribution Load Forecasting (DLF) - Optional	1		8	10	
S.3.4	Operator Training Simulator (OTS)	1		8	10	
<b>S.4</b>	<b>OMS</b>					
S.4.1	Trouble Call Management (TCS)	1		8	10	
S.4.2	Outage Engine	1		8	10	
<b>S.5</b>	<b>INTERFACES</b>					

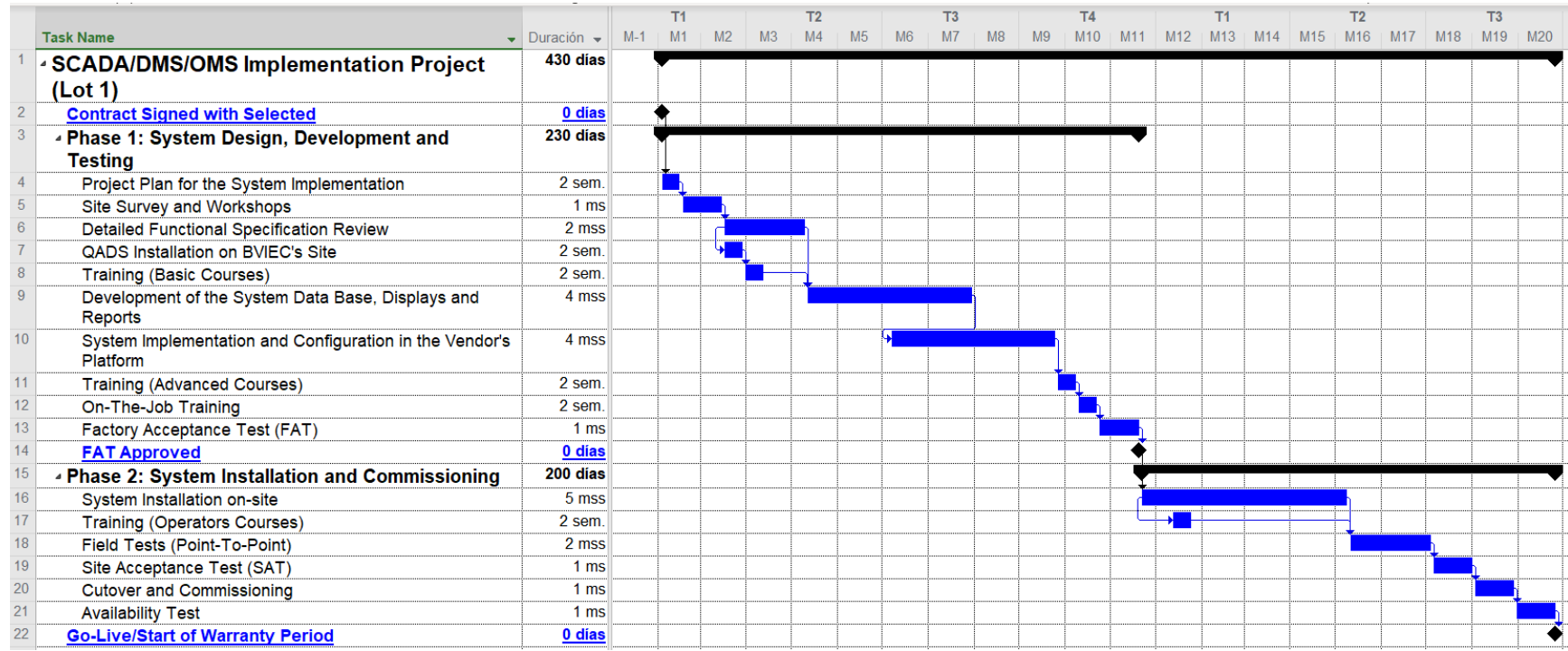
Line Item N°	Description of Goods	Qty	Named place of Destination in accordance with ITB 9.8	Delivery (as per Incoterms) Date		
				Earliest Delivery Date [in months after contract signing]	Latest Delivery Date [in months after contract signing]	Bidder's offered Delivery date [to be specified by the bidder in months after contract signing]
S.5.1	Interface with IT/OT Applications	1		8	10	
	<i>Add hardware or software if it is required</i>					
Name of Bidder <i>[insert complete name of Bidder]</i>		Signature of Bidder <i>[signature of person signing the Bid]</i>				Date <i>[Insert Date]</i>

**34. List of Related Services and Completion Schedule**

Service	Description of Service	Quantity and physical unit	Place where Services shall be performed	Final Completion Date(s) of Services [in months after contract signing]
1	Coordination and Participation on the Factory Acceptance Test (FAT)		<i>Manufacturer's/ Supplier's facilities</i>	10
2	Coordination and Participation on the Site Acceptance Test (SAT) – Including Peer-To-Peer Test and Supervision of Availability Test		<i>British Virgin Islands, BVIEC facilities</i>	10
3	Coordination and Participation on-site for the Installation and Commissioning of SCADA/DMS/OMS System		<i>British Virgin Islands, BVIEC facilities</i>	16-18
4	Project Coordination and Engineering		<i>N/A</i>	<i>During all project</i>
5	Preparation and Provision of System and Project Documentation		<i>Supplier's facilities &amp; British Virgin Islands, BVIEC facilities</i>	6
6	Preparation and Conduct of the Training Program		<i>N/A</i>	16
7	Installation for VPS & Furniture Console for 4 positions		<i>Supplier's facilities &amp; British Virgin Islands, BVIEC facilities</i>	10
8	Support and Maintenance Services Under Warranty (2-year)		<i>British Virgin Islands, BVIEC facilities</i>	2 years after commissioning
	<i>Add services if it is required</i>			
<i>[insert number of the Service ]</i>	<i>[insert name of Services]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price per item]</i>	<i>[insert total price per item]</i>
Name of Bidder <i>[insert complete name of Bidder]</i>		Signature of Bidder <i>[signature of person signing the Bid]</i>		Date <i>[Insert Date]</i>



### 35. Reference Project Time Schedule for Lot 1 – SCADA/DMS/OMS Implementation



## S. Lot 2: Remote Terminal Units (RTUs)

### 36. List of Goods and Delivery Schedule

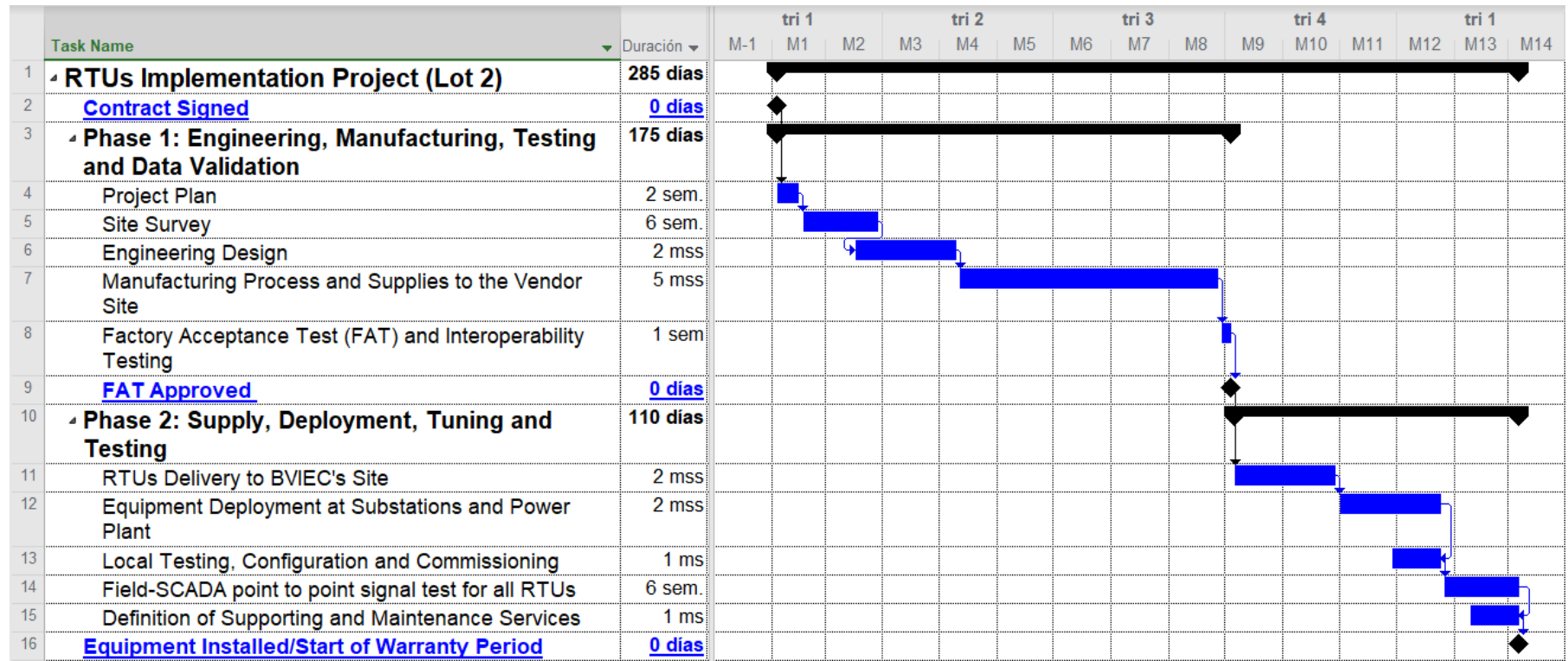
Line Item N°	Description of Goods	Qty	Named place of Destination in accordance with ITB 9.8	Delivery (as per Incoterms) Date		
				Earliest Delivery Date [in months after contract signing]	Latest Delivery Date [in months after contract signing]	Bidder's offered Delivery date [ <i>to be specified by the bidder</i> in months after contract signing]
<b>H.</b>	<b>HARDWARE</b>					
<b>H.1</b>	<b>Remote Terminal Units</b>	(Note 1)				
H.1.1	CPU Module			6	7	
H.1.2	I/O Modules	(Note 2)		6	7	
H.1.3	Communication Cards (Serial/Network)			6	7	
H.1.4	Time Synchronization Module			6	7	
H.1.5	AC/DC Power Unit			6	7	
H.1.6	Gateway	(Note 3)		6	7	
H.1.7	Global Positioning System (GPS)	(Note 4)		6	7	
H.1.8	HMI (PC Local Substation)			6	7	
<b>H.2</b>	<b>RTU Telecontrol Protocols Simulator</b>					
H.2.1	Laptop	2		6	7	
<b>H.3</b>	<b>SPARE PARTS</b>					
H.3.1	Lot of Spare Parts (Detail)	(Note 5)		11	12	
<b>S.</b>	<b>SOFTWARE</b>					
<b>S.1</b>	<b>RTUs</b>					
S.1.1	System & HMI Software	1		6	7	
S.1.2	Data Acquisition and Control Applications	1		6	7	
S.1.3	Tools for RTU Configuration and Programming	1		6	7	
S.1.4	Diagnosis Tools	1		6	7	
S.1.5	RTU Simulator Software	1		6	7	
	<i>Add hardware or software if it is required</i>					

<i>[insert number of the item]</i>	<i>[insert name of good]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price CIP per unit]</i>	<i>[insert total CIP price per line item]</i>	<i>[insert the corresponding price per line item]</i>	<i>[insert total price of the line item]</i>
<p><b>NOTES:</b></p> <p>(1) RTU for each substation included in the Table 2 of the Section IV - Technical Specifications Lot 2</p> <p>(2) Bidder shall define the modules required based on sizing specified in Table 1 of the Section IV - Technical Specifications Lot 2 (Including the 50% Expansion Capacity)</p>				<p>(3) Bidder can propose gateways if it is required and/or some modules are integrated</p> <p>(4) GPS should include antenna and all accessories required for its connection.</p> <p>(5) Bidder shall recommend and supply the spare parts at the card or module level which are required to guarantee the availability of the RTUs</p>		
<p>Name of Bidder <i>[insert complete name of Bidder]</i></p>		<p>Signature of Bidder <i>[signature of person signing the Bid]</i></p>				<p>Date <i>[Insert Date]</i></p>

**37. List of Related Services and Completion Schedule**

<b>Service</b>	<b>Description of Service</b>	<b>Quantity and Physical Unit</b>	<b>Place where Services shall be performed</b>	<b>Final Completion Date(s) of Services [in months after contract signing]</b>
<b>1</b>	Coordination and Participation on the Factory Acceptance Test (FAT)		<i>Manufacturer's/ Supplier's facilities</i>	7
<b>2</b>	Coordination and Participation on the Site Acceptance Test (SAT) – Including Peer-To-Peer Test		<i>British Virgin Islands, BVIEC facilities</i>	10
<b>3</b>	Project Coordination		<i>British Virgin Islands, BVIEC facilities</i>	During All Project
<b>4</b>	Engineering and Integration (Including configuration for all RTUs)		<i>N/A</i>	11
<b>5</b>	Coordination and Participation on-site for the Installation and Commissioning of All RTUs		<i>Supplier's facilities &amp; British Virgin Islands, BVIEC facilities</i>	11
<b>6</b>	Preparation and Provision of System and Project Documentation		<i>N/A</i>	6
<b>7</b>	Preparation and Conduct of the Training Program		<i>Supplier's facilities &amp; British Virgin Islands, BVIEC facilities</i>	10
<b>8</b>	Support and Maintenance Services Under Warranty (2-year)		<i>British Virgin Islands, BVIEC facilities</i>	2 years after commissioning
<b>9</b>	<i>Add services if it is required</i>		<i>British Virgin Islands, BVIEC facilities</i>	
<i>[insert number of the Service ]</i>	<i>[insert name of Services]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price per item]</i>	<i>[insert total price per item]</i>
Name of Bidder <i>[insert complete name of Bidder]</i>		Signature of Bidder <i>[signature of person signing the Bid]</i>		Date <i>[Insert Date]</i>

### 38. Reference Project Time Schedule for Lot 2 – RTUs Implementation



## T. Lot 3: Distribution Automation Field Devices

### 39. List of Goods and Delivery Schedule

Line Item N°	Description of Goods	Qty	Named place of Destination in accordance with ITB 9.8	Delivery (as per Incoterms) Date		
				Earliest Delivery Date [in months after contract signing]	Latest Delivery Date [in months after contract signing]	Bidder's offered Delivery date [to be specified by the bidder in months after contract signing]
<b>H.</b>	<b>HARDWARE</b>					
<b>H.1</b>	<b>DA Field Devices</b>					
H.1.1	Automatic Circuit Reclosers – ACR 13.2 kV (Including Control Unit)	25		8	9	
H.1.2	Remote Fault Indicator – RFI 13.2 kV (Including Concentrator Unit)	34		8	9	
H.1.3	Materials for Erection and Installation of All DA Field Devices			8	9	
<b>H.2</b>	<b>Telecontrol Protocols Simulator</b>					
H.2.1	Laptop	2		8	9	
<b>H.3</b>	<b>SPARE PARTS</b>					
H.3.1	Automatic Circuit Recloser (ACR)	1		16	17	
H.3.3	Remote Fault Indicators (RFI)	1		16	17	
H.3.4	Control unit for ACR	1		16	17	
H.3.6	Concentrator Unit for RFI	1		16	17	
<b>S.</b>	<b>SOFTWARE</b>					
<b>S.1</b>	<b>DA Field Devices</b>					
S.1.1	Telecontrol Protocols Simulator Software	1		8	9	
	<i>Add hardware or software if it is required</i>					

<i>[insert number of the item]</i>	<i>[insert name of good]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price CIP per unit]</i>	<i>[insert total CIP price per line item]</i>	<i>[insert the corresponding price per line item]</i>	<i>[insert total price of the line item]</i>
Name of Bidder <i>[insert complete name of Bidder]</i>		Signature of Bidder <i>[signature of person signing the Bid]</i>				Date <i>[Insert Date]</i>

**40. List of Related Services and Completion Schedule**

<b>Service</b>	<b>Description of Service</b>	<b>Quantity and Physical Unit</b>	<b>Place where Services shall be performed</b>	<b>Final Completion Date(s) of Services [in months after contract signing]</b>
<b>1</b>	Coordination and Participation on the Factory Acceptance Test (FAT)		<i>Manufacturer's/ Supplier's facilities</i>	7
<b>2</b>	Coordination and Participation on the Site Acceptance Test (SAT) – Including Peer-To-Peer Test		<i>British Virgin Islands, BVIEC facilities</i>	12-18
<b>3</b>	Project Coordination		<i>British Virgin Islands, BVIEC facilities</i>	During All Project
<b>4</b>	Engineering and Integration (Including configuration for all Field Devices)		<i>N/A</i>	10-15
<b>5</b>	Coordination and Participation on-site for the Installation and Commissioning of All Field Devices		<i>Supplier's facilities &amp; British Virgin Islands, BVIEC facilities</i>	10-15
<b>6</b>	Preparation and Provision of System and Project Documentation		<i>N/A</i>	6
<b>7</b>	Preparation and Conduct of the Training Program		<i>Supplier's facilities &amp; British Virgin Islands, BVIEC facilities</i>	12
<b>8</b>	Support and Maintenance Services Under Warranty (2-year)		<i>British Virgin Islands, BVIEC facilities</i>	2 years after commissioning
	<i>Add services if it is required</i>			
<i>[insert number of the Service ]</i>	<i>[insert name of Services]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price per item]</i>	
Name of Bidder <i>[insert complete name of Bidder]</i>		Signature of Bidder <i>[signature of person signing the Bid]</i>		Date <i>[Insert Date]</i>



### 41. Reference Project Time Schedule for Lot 3 – DA Field Devices Implementation

