S T A N D A R D B I D D O C U M E N T

GUYANA POWER AND LIGHT INC

Procurement of Goods

IFB # GPL- PD - 052- 2022

Supply of:
69 kV Transmission Line Hardware & Materials

September 2022

Closing Date: October 25, 2022 @ 1400 hrs. or 2:00pm

Bid Opening: October 25, 2022 @ 14:30 hrs. or 2:30pm

Invitation for Bids (IFB)

Cooperative Republic of Guyana

IFB# GPL - PD – 052 - 2022

1. The Guyana Power and Light Incorporated (GPL) invite sealed bids from eligible bidders for the supply of **Transmission Line Hardware & Materials.**

A bid Security of 2 % of the tendered sum ***must*** be submitted along with the bid.

Bids shall be valid for 90 days after the date of bid opening.

Bids must be submitted via email to our electronic tender box: gpltenderbox@gplinc.com

- Bids must be submitted with a valid **National Insurance (NIS) & Guyana Revenue Authority Compliance Certificate**

Deadline for submission of bids is **14:00 hrs.** (2:00 p.m.) on **October 25, 2022.**

Bid opening is scheduled for **14:30 hrs.** (2:30 pm) on **October 25,** at GPL's Board Room 91 Duke Street, Kingston, Georgetown, Guyana via Zoom Call in the presence of Bidders/ Representatives who may choose to attend.

IMPORTANT: Bidders downloading the bid document must forward a registration
E-mail to kgeorge@gplinc.com and proc_mng_sect@gplinc.com stating the following: Name of Bidder, Address, Contact Number and Email address.

All queries must be submitted only to tenderqueries@gplinc.com referencing name and bid document number.

The above information will be used to inform bidders of any amendments to the bidding document and also to forward all responses to queries.

GPL reserves the right to reject any or all bids.

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INSTRUCTIONS TO BIDDERS

A. Introduction

1. Description of the Procurement

The Procuring Entity is Guyana Power and Light Inc. that intends to procure the goods identified in the *Bid Data Sheet* and in the Schedule of Requirements.

2. Eligibility and qualifications of Bidders

2.1 In order to be awarded a procurement contract, Bidders should possess the technical and financial capacity needed to perform the contract. They should fulfill their tax and national insurance fund liabilities in Guyana and should not currently be subjected to a debarment penalty and must comply with the specific eligibility and qualification requirements referred to in the *Bid Data Sheet*. Bidders shall provide the information and any supporting documentation required by the Qualification Information Form.

2.2 The bidders should not have conflict of interests, including involvement in more than one bid in this proceeding, should not be associated nor have been associated in the past, directly or indirectly, with any agency or any of its representatives, or affiliates, that have been engaged by the Procuring Entity to provide consulting services at the preparation stage of the bidding documents, technical specifications and other documentation that are subject to be used in the procurement of goods, which must be purchased in accordance with the Invitation for Bids. In cases where the indicated facts are discovered, the Bidder's bid shall be rejected.

B. Bidding Documents

3. Clarification and amendment of Bidding Documents

3.1 The Procuring Entity in not more than three (3) calendar days, will respond in writing (including by fax or electronic mail) to any request for clarification of the bidding documents to be received (in writing, including by fax or electronic mail) not later than 5 calendar days before the expiry of a deadline for submission of bids. At the same time, the Procuring Entity's response shall without identifying its source of the request, be distributed to all bidders who have received the bidding documents from the Procuring Entity.

3.2 At any time before the deadline for submission of bids, the Procuring Entity may amend the bidding documents by issuing an Addendum and notifying it to the prospective bidders.

C. Preparation of Bid

4. Language of Bid

4.1 The bid prepared by the Bidder, as well as all correspondence and documents related to that bid and exchanged by the Bidder and the Procuring Entity shall be written in the language *specified in the Bid Data Sheet*.

5. Documents Included in Bid

5.1 The bid prepared by the Bidder should contain the Form of Bid, the Price Schedules and the other documents to be submitted in accordance with these Instructions to Bidders.

6. Bid Price

6.1. Subject to the choice of INCOTERMS as indicated in the Bid Data Sheet, the prices given in the Price Schedule shall include all transportation costs to the destination point indicated in the Contract, all taxes, duties, payments collected, in accordance with the laws of Guyana and delivery related and other costs on performing of contractual obligations.

6.2. The prices offered by the Bidders shall remain fixed during the whole period of Contract performance and shall not be modified in any circumstance.

7. Bid and Payment Currency

7.1 The prices shall be indicated in UK Pounds, US Dollars or Euros for Foreign Suppliers and Guyana Dollars for Domestic Suppliers, unless otherwise specified in the *Bid Data Sheet*.

8. Bid Security / Bid Securing Declaration

8.1 Unless otherwise provided in the *Bid Data Sheet*, the Bidder shall furnish, as part of his bid, a Bid Security, in the form, currency and amount specified in the *Bid Data Sheet* with a validity period for not less than 2 weeks upon the expiry of the bid validity period and in line with the form provided, or, if so indicated in the BDS, a Bid Securing Declaration in accordance with the form provided. **A Bid Securing Declaration is not required.**

8.2 The bid security may be forfeited, or the Bid Securing Declaration executed, if the Bidder:

(a) withdraws his/her bid after it is opened during the period of validity specified in the bid; or,

(b) Having been awarded the contract fails:

(1) To sign the contract on the terms and conditions provided in his bid; or

(2) To furnish the Performance Security, if required to do so.

9. Period of Validity of Bid

9.1 Bids shall remain in force during the period specified in *the Bid Data Sheet* after the date of bid opening.

10. Deadline for Submission of Bid

10.1 Bids must be received by the Procuring Entity at the address and within the periods specified in *the Bid Data Sheet.* All bids received by the Procuring Entity upon the expiry of a period established for submission of bids as indicated by the Procuring Entity shall be rejected and returned to the Bidder unopened.

11. Modification and Withdrawal of Bids

11.1 The Bidder may modify or withdraw his bid after the bid's submission, provided that the Procuring Entity will receive a written notice of modification, including substitution or withdrawal of bid until the expiry of established period for submission of bids.

D. Opening and Evaluation of Bids

12. Opening of Bids

12.1 Reserved

12.2 The bidders' names, bid prices, including alternatives (if alternatives permitted), information on the presence or absence of required bid security, or bid securing declaration, information on the presence (absence) of tax debts and debts of social insurance payments will be announced at the opening. No bid may be rejected at the opening, exclusive of late bids to be returned to the Bidder unopened.

12.3 Bids (and modifications sent pursuant to ITB Clause 12.2) that are not opened and read out during the bid opening shall not be accepted for further evaluation, regardless of circumstances.

13. Evaluation of Bids

13.1 During the evaluation of bids, the Procuring Entity may, at its discretion, request the Bidder to provide clarification of his bid. The request for clarification and the response thereto shall be made in writing, and in that case no change in price or substance of the bid shall be sought, offered, or permitted.

13.2 The Procuring Entity shall determine the responsiveness of each bid to requirements of the bidding documents. For the purposes of this Clause a substantially responsive bid is one which satisfies all the indicated provisions without a material deviation or reservation.

13.3 The Procuring Entity may waive any minor nonconformity or small mistake or inaccuracy in the bid, which is not a material deviation from the requirements of the bidding documents, and such non-conformity or inaccuracy will not affect the bid evaluation. To the extent feasible and appropriate, for the purposes of comparing bids, acceptable deviations shall be quantified in monetary terms and reflected in adjustments to the bid price (for the purposes only of comparison of bids).

13.4 Arithmetical errors shall be rectified in the following manner: if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If there is a discrepancy between words and figures, the sum in words shall be preferable. If the Bidder disagrees with such correction of errors,

his/her bid shall be rejected.

13.5 The Procuring Entity shall evaluate and compare only the bids that are determined to be responsive to the bidding documents.

13.6 The methodology to adjust the price to reflect the price of the missing or non-conforming item or component is the average price of the item of all responsive bids.

14. Confidentiality and Contacting the Procuring Entity

14.1 No Bidder shall contact the Procuring Entity on any matter related to his/her bid from the date of bid opening until the date of contract award, except for requests related to clarification of the bid. Information concerning the evaluation of bids is confidential.

14.2 Any effort by the Bidder to influence the Procuring Entity's decision on bid evaluation and comparison, or contract award may result in the rejection of that Bidder's bid.

E. Award of Contract

15. Award Criteria

15.1 Subject to ITB Clause 18, the Procuring Entity will award the Contract to the Bidder whose bid is determined to be substantially responsive to the requirements of the bidding documents, and who offered **the Lowest Evaluated Bid** (the bidder awarded the highest points), provided that the Bidder has been determined:
(a) to be eligible pursuant to Clause 2;
(b) to comply with qualification requirements, in accordance with Clause 2, and any technical requirements and technical evaluation criteria disclosed in the bidding documents.

16. Procuring Entity's Right to Vary Quantities at Time of Entering into a Contract

16.1 The Procuring Entity reserves the right, when entering into a contract, to increase or decrease the quantity of goods and related services specified in the Schedule of Requirements, by the percentage indicated in the *Bid Data Sheet***,** no change in the unit price or other conditions shall be made.

17. Procuring Entity's Right to Accept Any Bid and to reject All Bids

17.1 The Procuring Entity reserves the right to accept or reject any bid or all bids, and to cancel the bidding process at any time prior to award of contract, without thereby incurring any liability to Bidders and without being required to inform the Bidder or Bidders of reasons of such actions.

18. Notification of Award

18.1. The bidder whose bid is accepted will be notified of the award of contract by the Procuring Entity prior to expiration of the quotation validity period.

18.2. The notice of acceptance shall be equal to entering into a Contract, provided that the Bidder furnishes the performance security and the signed Contract.

18.3. At the same time that the Procuring Entity notifies the successful Bidder in accordance with sub-clause 18.1, the Procuring Entity will notify all other Bidders of the name of successful Bidder, and his bid price.

18.4 The evaluation report and comparison of bids will not be sent to bidders.

19. Signing of Contract and performance security

19.1 At the same time with notification of award, the Procuring Entity will send the successful Bidder the Form of Contract contained in the bidding documents. The successful Bidder shall sign and date the Contract, and return it to the Procuring Entity during seven (7) days of receipt of notice of award.

19.2 Together with the signed Contract, the Bidder shall, if required to do so by the *Bid Data Sheet*, furnish the Procuring Entity with a Performance Security in the amount and form specified in the *Bid Data Sheet*.

19.3 If the successful Bidder fails to furnish the performance security, if required to do so, or within seven (7) days fails to return the Contract signed by him, then it shall be a sufficient ground to refuse the award of Contract, and to forfeit the bid security, or execute the bid-securing declaration. In that case, the Procuring Entity shall award the Contract to the next lowest evaluated Bidder, subject to the right of the Procuring Entity to reject all bids.

20. Settlement of disputes

20.1 To settle the disputes, which may arise during the execution of the Contract, the parties shall follow the procedure referred to in the *Bid Data Sheet*.

21. Corrupt and Fraudulent Practices

21.1 The Procuring Entity requires that Bidders observe the highest standards of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Procuring Entity:

(a) will reject the bid if it establishes that the Bidder recommended for award has engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract in question;

(b) will declare the Supplier, for indefinite or specified period of time, to be ineligible to participate in state-financed biddings, in accordance with applicable debarment procedures.

1. Compliances

22.1 Bidder registered in Guyana must submit valid certificates of compliances from Guyana Revenue

Authority (GRA), National Insurance Scheme (NIS), and (VAT registration is required only if item being supplied is Vatable).

23. Defects Liability:

23.1 The "Defects Liability Period" for the goods and related services is twelve (12) months from the date of taking over possession or such other period as may be specified in the Bid Data Sheet. During this period, the supplier will be responsible for replacing any defective item free of cost to the Procuring Entity.

24. Inspection and Testing

24.1 The Bidder shall at its own expense and at no cost to the Procuring Entity carry out all testing and/or inspections of the Goods and Related Services as are specified in the Technical Specification**.** Whenever the Bidder is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Procuring Entity.

The Bidder shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Procuring Entity or its designated representative to attend the test and/or inspection.

24.2 The Procuring Entity may require the Bidder to carry out any test and/or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications codes and standards under the Contract.

24.3 The Bidder shall provide the Procuring Entity with a report of the results of any such test and/or inspection.

24.4 The Procuring Entity may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Bidder shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Procuring Entity, and shall repeat the test and/or inspection, at no cost to the Procuring Entity, upon giving a notice.

24.5 The Bidder agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Procuring Entity or its representative, nor the issue of any report, shall release the Bidder from any warranties or other obligations under the Contract.

Bid Data Sheet (BDS)

The following specific data to clauses of the provisions of Instructions to Bidders which supplement, or amend the provisions of the Instructions to Bidders (ITB) whenever there is a conflict, the provisions herein shall prevail over those in ITB

Item No.	
ITB 1.1	Guyana Power and Light Inc. of 40 Main Street Georgetown Guyana Telephone #592-226-9598 Email: gpersaud@gplinc.com The subject of the procurement is: **The Supply of 69kV Transmission Line Hardware &Materials**
ITB 2.1	To qualify for award of the Contract, the bidders shall provide satisfactory evidence to the Procuring Entity of their capability and adequacy of resources to carry out the Contract effectively: (a) Copies of original documents defining the constitution or legal status, place of registration and principal place of business. (b) Experience as a supplier in carrying out of two (2) or more supplies of a similar items within the last three (3) years. (c) Average Turnover for the last three years should be at least USD $400,000. (d) Evidence of access to lines of credit and availability of other financial resources. (e) Evidence of compliance with NIS, GRA, Vat registration if applicable (Only applies to local Supplier). (f) To be covered by an express warranty period of no less than twelve (12) months. (g) Submission of Technical Specification. (h) Letter of Authorization from Manufacturer. (i) Manufacturers authorization form. (j) Resubmission of GPL's Specification do not qualify. **(k) Wherever practicable sample(s) may accompany a bid. The Procuring Entity reserves the right to request sample(s) before the awarding of a tender.**
ITB 3.1	Language of Bid shall be English

ITB 4.1	Other documents to be submitted includes; GRA and NIS Compliances, **(TIN Certificate and VAT Registration if the item/s being procured attract VAT). Only applies to Bidders whose registered office is within Guyana.**
ITB 5.1	The price quoted by Bidders shall be on the basis of CIF for goods delivered from abroad and for goods delivered from within Guyana. Incoterms 2010 shall apply.
ITB 6.1(a) **ITB 6.1(b)** **ITB 6.1(c)**	For Goods and Related Services with origin in the Procuring Entity's country, the currency of the bid shall be Guyana Dollars (GY$) (Bidders with registered business in Guyana must submit their bid in Guyana Dollars (GY$). The prices shall be indicated in UK Pounds, US Dollars or Euros for Foreign Suppliers and Guyana Dollars for Domestic Suppliers. The currency that will be used for bid evaluation and comparison purposes to convert all bid prices expressed in various currencies into a single currency is the Guyana Dollars. The source of exchange rate shall be the Bank of Guyana, and the selling rate shall be used. The date for exchange rate shall be ten days before the opening of tenders.
ITB 7.1	A bid security of 2% of the tendered sum is required. A signed Bid Securing Declaration is not required.
ITB 8.1	The period of validity of bid is 90 Days.
ITB 9.1	Deadline for submission of bids: **14:00 hours on October 25, 2022.** Attention: Secretary to the Tender Board, Guyana Power and Light, Inc. 91 Duke Street, Kingston Georgetown Guyana South America.
ITB 10.1	Time and place for opening of bid: **1430 hours on October 25, 2022.** The Board Room, Guyana Power and Light, Inc., 91 Duke Street, Kingston, Georgetown, Guyana, South America.
ITB 11.1	When entering into a contract, the Procuring Entity reserves the right to Increase or decrease quantities of goods by 10%.
ITB 12.1	The performance security shall be 10% of the Contract Price and in the form of a Bank Guarantee or Manager's Cheque drawn on a bank registered and operating in Guyana.
ITB 13.1	Disputes that may arise in the performance of the contract shall be settled in accordance with the Procurement Act 2003.
ITB 14.1	The duration of the defects liability period is to be stated by the Bidder.

General Conditions of Contract (GCC)

The General Conditions are the Standard General Conditions of Contract. No alteration shall be made on the pages of these Conditions. The Procuring Entity, when amending or supplementing the General Conditions of Contract should do so only in the Special Conditions of Contract. Any amendment or addenda of the General Conditions of Contract shall conform to the legislation of Guyana.

1. Definitions and application

1.1 This Contract lists below the terms that have the following interpretation:

(a) "**Contract**" means the agreement entered into between the Procuring Entity and the Supplier, as recorded in the Form of Contract signed by the parties, including all attachments and appendices thereto and all the documents referenced therein;

(b) "**Contract Price**" means the price payable to the Supplier under the Contract for complete and proper performance of his contractual obligations;

(c) "**Goods**" means the item(s) referred to in the SCC;

(d) **"GCC" -** means the General Conditions of Contract contained in this Section;

(e) **"SCC" -** means the Special Conditions of Contract;

(f) **"Procuring Entity"** – means the Procuring entity carrying out the procurement of Goods, specified in the SCC;

(g) **"Supplier"** – means an individual or legal entity, or a combination of any above mentioned forms which operate under the existing agreement as a joint venture and supply the Goods and Services under the Contract;

(h) **"Day"** – means calendar day.

1.2 The General Conditions of Contract shall apply in the procurement of goods; the specific amendment, addition and alteration shall be indicated in the Special Conditions of Contract.

1.3 Warrant requirements are as may be specified in the special conditions of contract.

2. Contract Documents

2.1 Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The contract shall be read as a whole.

3. Performance Security

3.1 If required by the SCC, during fourteen (14) days of receipt of notification of award, the successful Bidder shall furnish the Procuring Entity with the performance security the amount and form of which are indicated in the SCC.

4. Packing

4.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to final destination specified in the Contract, and as may be required by the Special Conditions of Contract.

5. Delivery, Transportation, Mobilization Advance

5.1 The Supplier must deliver the Goods within the periods and to the Destination point indicated in the Schedule of Requirements and shall provide the documentation indicated in the SCC. Subject to the SCC, transportation of the Goods to the place specified by the Procuring Entity shall be carried out and paid by the Supplier, and related costs shall be included in the Contract Price.

6. Payment

6.1 The payment to the Supplier for the Goods delivered shall be made in accordance with the Contract in the form and within the periods specified in the SCC**.**

6.2 The supplier shall furnish the procuring entity with the Advance Payment Guarantee in the amount and for indicated in the SCC.

7. Prices

7.1 Prices established by the Supplier in the Contract for goods delivered shall not vary from the prices quoted by the Supplier in his bid.

8. Assignment

8.1 The Supplier shall not assign, in whole or in part, his obligations under the Contract to the third party for the execution without the Procuring Entity's prior written consent.

9. Delays in the Supplier's Performance and liquidated damages

9.1 Delivery of the Goods shall be carried out by the Supplier, in accordance with the schedule indicated by the Procuring Entity in the Delivery *Schedule.*

9.2 Except for provided under GCC Clause 13, the delay in the Supplier's performance of his delivery obligations shall render the Supplier liable for payment of liquidated damages in the amount specified in the SCC, unless an extension of time is agreed upon by the parties without application of liquidated damages. Once the maximum deduction specified in the SCC is reached, the Procuring

Entity may consider termination of the Contract, in accordance with Clause 10 of the General

Conditions of Contract.

10. Force Majeure

10.1 The Supplier shall not forfeit their performance security and shall not be liable for the payment of liquidated damages, or termination of Contract for failure to perform any obligation under the contract, if the failure to perform or default is the result of an event of force majeure.

10.2 "Force majeure" means an event beyond the control of the Supplier, not connected with error or negligence of the Supplier and not foreseeable.

10.3 When an event of force majeure arises, the Supplier shall promptly notify the Procuring Entity in writing of such event and its causes and to the extent possible, the expected duration of the event of force majeure and the quantity of Goods to be affected. The Supplier shall diligently search for alternative ways of execution of the Contract, irrespective of force majeure.

10.4 The Parties may agree on an extension of time for the delivery of the Goods where this is practical under the circumstances. If force majeure prevents the Supplier from performing its obligations in whole or material part for a continuous period of more than thirty (30) days from the date of the notice, the Procuring Entity may terminate the Contract by giving notice to the Supplier.

10.5 Provide always that the Parties acknowledge that this Contract is being entered into during the Covid-19 pandemic which has resulted in worldwide supply chain disruptions. The Supplier shall use its diligent efforts, as far as practicable, to ensure accuracy in its bid submissions relative to the period for delivery and price of the Goods, considering the existing circumstances. The Supplier shall not rely on the Covid-19 pandemic as an event of force majeure to delay performance of the Contract, except where performance becomes impossible as a result of measures or circumstances arising after entering into the Contract. The Supplier shall first discuss with the Procuring Entity the effect of those measures or circumstances preventing performance and whether any action may be taken to mitigate its effect. The Procuring Entity reserves the right to terminate the Contract in accordance with 10.4 above.

10.6 The procuring entity shall be entitled to make a claim on the advance payment guarantee irrespective of an event of force majeure

11. Termination

11.1 The Procuring Entity, without detriment to any other sanctions of infringement of the provisions of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:

(a) if the Supplier fails to deliver the portion or all of the Goods within the periods provided for in the Contract, or within an extension period of that Contract, or to perform any of his obligations under the Contract;

(b) if bankruptcy procedures are applied to the Supplier, or it is declared insolvent.

(c) if the Supplier, in the Procuring Entity's opinion, has engaged in corrupt, fraudulent, collusive or coercive practices when entering into or executing the Contract;

(d) if the Procuring Entity deems that continued implementation of the contract would no longer be expedient from the standpoint of the public interest;

(e) if there is prolonged force majeure as provided for in 10.4.

11.2 The notice of termination shall specify the reason of termination, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

11.3 When the Contract is terminated in accordance with clause 10.1(d), the Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of notice of termination shall be accepted by the Procuring Entity at the Contract terms and prices. For the remaining Goods, the Procuring Entity may elect:

(a) to have any portion completed and delivered at the Contract terms and prices; and/or

(b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

12. Settlement of Disputes

12.1 If any dispute or disagreement arises between the Procuring Entity and the Supplier for the Contract or in connection with it, the parties shall make every effort to resolve the dispute or disagreement amicably by mutual consultation.

12.2 If during twenty-one (21) days, the parties failed to resolve their dispute or disagreement by mutual consultation; either the Procuring Entity or the Supplier may send the other party the notice of intent to commence arbitration, if an arbitration is incorporated in the Contract in the Special Conditions of Contract or otherwise agreed by the parties, or in the

Court of General Jurisdiction if no arbitration is envisaged, and no arbitration or litigation in respect of that matter may be commenced unless such notice is given.

Any dispute or disagreement in respect of which the notice of intent is sent to commence trial shall be heard by the Court of General Jurisdiction.

12.3 Notwithstanding any reference to dispute settlement herein, the parties shall continue to perform their obligations under the Contract, unless they agree otherwise.

13. Applicable Law

13.1 The Contract shall be interpreted in accordance with the laws of Guyana.

14. Formal Communication between the Procuring Entity and the Supplier

14.1 Any notice given by one party to the other pursuant to the Contract shall be in force if it is done in writing and sent at the address of other party in the SCC**.**

14.2 A notice shall be effective when delivered or on the specified date, whichever is later.

15. Taxes and Duties

15.1 The Supplier shall be fully responsible for all taxes, duties, license taxes, etc., levied in accordance with the legislation of Guyana, and subject to the application of INCOTERMS in accordance with the SCC.

16. Retention

16.1 No retention shall be applied on consumables, but warranties, guarantees and expiry dates to apply.

Special Conditions of Contract (SCC)

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 General Conditions of Contract.

GCC Clause No.	Special Conditions of Contract
1 **1.1 (f)**	**Definitions** The Procuring Entity is Guyana Power and Light of 40 Main Street Georgetown Guyana South America, Tele #592-226-9598, *Fa x# 592 227-2180 Email: gpersaud@gplinc.com*
1.1 (g)	The Supplier is **Not Applicable** *(indicate full name, legal address, phone, fax and e-mail of Supplier)*
1.1(c)	**The Subject of procurement is <u>The Supply of 69kV Transmission Line Hardware & Materials</u>**
3.1	A Performance Security will be required Fourteen (14) days after receipt of notification award in the amount and form of a Bank Guarantee or Manager's Cheque not exceeding ten *(10) percent of the Contract price from a bank registered and operating in Guyana.*
4.1	**Packing** The packing, marking and documentation within and outside the packages shall be: <u>Packing</u> The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit. <u>Marking</u> **Marking shall be in accordance with international practice and shall be agreed with the Procuring Entity. The Goods shall be addressed for delivery to Guyana Power & Light, 40 Main Street, Georgetown, Guyana, South America.**
5.1	**Delivery, Transportation** <u>Documentation</u> (a) For Imported Goods. Within 24 hours of shipment, the Supplier shall notify the Procuring Entity and the Insurance Company by cable or telex or fax or email, the full details of the shipment including Contract number, description of Goods, quantity, the vessel, the bill of lading

	number and date, port of loading, date of shipment, port of discharge, etc. **The Supplier shall mail the following Original documents to the Procuring Entity with a copy to the insurance Company:** (1) Supplier's invoice indicating a description, quantity, unit price of the Goods and sum total; (2) Shipping order, railway receipt or truck receipt; (3) Warranty certificate of Manufacturer or Supplier; (4) Inspection certificate issued by the authorized inspection service, and the supplier's factory inspection report (if any); (5) Certificate of origin; (6) Certificate of conformity; (7) Full set of ocean on-board bills of lading, of air waybills or courier/parcel post Certificates consigned to the Procuring Entity; (8) Packing list identifying contents of each package, and clearly showing Shipping marks and package numbers, kind of package, contents, dimensions and Gross weights of each package in pounds or kilos. The above documents shall be received by the Procuring Entity at least two (2) weeks before arrival of Goods at the port or place of arrival and, if not received, the Supplier will be responsible for any consequent expenses.
6.1	**Payment** The method and conditions of payment to be made to the Supplier under this Contract shall be as follows: **Payment for Goods supplied:** Payment will be as follows: **Advance Payment:** Thirty (30) percent of the value of each shipment to be delivered shall be paid within thirty (30) days of the signing of the Contract, and upon submission of a claim and a bank guarantee for equivalent amount valid until the Goods are delivered and in the form provided in the bidding documents or another form acceptable to the Procuring Entity. **On Delivery:**

	Fifty (50) percent upon receipt of shipping document of the Contract Price of the Goods shipped shall be paid upon submission of claim (Air Waybill / BL). **On Acceptance:** Twenty (20) percent of the Contract Price of Goods received shall be paid within thirty (30) days of receipt of the Goods supported by the acceptance certificate issued by the Procuring Entity.
9.2	**Liquidated Damages** The liquidated damage shall apply and they shall be equivalent to half of one percent (0.5%) of the delivered price of the delayed Goods or unperformed services per each day of delay or part thereof until actual delivery. The maximum amount of liquidated damages shall be: 15 percent (15 %) of the delayed Goods or services contract price.
11.2	**Settlement of Disputes** The rules of procedure for arbitration proceedings pursuant to GCC Sub-Clause 11.2 shall be as follows: ***(a) Contract with foreign Supplier:*** GCC 11.2 (a) Any dispute, controversy or claim arising out of or relating to this Contract, or breach, termination or invalidity thereof, shall be settled by arbitration in accordance with the UNCITRAL Arbitration Rules as at present in force. ***(b) Contracts with Supplier national of the Procuring Entity's country:*** In the case of a dispute between the Procuring Entity and a Supplier who is a national of the Procuring Entity's country, the dispute shall be referred to adjudication or arbitration in accordance with the laws of Guyana ***(c)* The Courts of Georgetown, Guyana, shall have exclusive jurisdiction in all the matters arising in the contract including execution of Arbitration Awards**
12.1	**The governing law shall be the law of Guyana**

SCHEDULE OF REQUIREMENTS

IFB # GPL-PD-052-2022

Supply of: Transmission Line Hardware & Materials

LOT 1 – 69kV Transmission Line – Canefield

			Structure Type	A1-60 Tangent Pole		E-60 Section Angle Pole		R-60 Angle Portal Pole		R1-60 Angle Portal Pole			
			Amount	4		0		3		1			
			Quantity	Unit	Sub-total	Unit	Sub-total	Unit	Sub-total	Unit	Sub-total	Spare	TOTAL
Overall Item	**Individual Item Name**	**Specification**	**Unit**										
Horizontal Post Insulator Assembly	Horizontal Post Insulator	9214280	Piece	3	12	3	0	0	0	0	0	2	**14**
	Insulator Base	with Insulator	Piece	3	12	3	0	0	0	0	0	2	**14**
	Fixed Clamp	For AAAC with 18.3mm DIA	Piece	3	12	3	0	0	0	0	0	2	**14**
	Mounting Bolts	DIA-22mm L-350mm	Piece	6	24	0	0	0	0	0	0	5	**29**
	Plate	55X360mm d-6mm	Piece	3	12	0	0	0	0	0	0	2	**14**
	Preformed Armour Rods	FYH-200	Piece	3	12	3	0	0	0	0	0	2	**14**
Tension Insulator Assembly	Tension Insulator	913375	Piece	0	0	6	0	6	18	6	6	2	**26**
	Shackles	U-7	Piece	0	0	12	0	12	36	12	12	4	**52**
	Ball Eyes	QP-7	Piece	0	0	6	0	0	0	0	0		**0**
	Ball Eyes	QH-7	Piece	0	0	0	0	6	18	6	6	2	**26**
	Socket Eyes	W-7A	Piece	0	0	6	0	6	18	6	6	2	**26**
	Dead End (Compression)	NY-200 (For Canton)	Piece	0	0	6	0	6	18	6	6	2	**26**
Suspension Insulator Assembly	Suspension Insulator	913375	Piece	0	0	0	0	0	0	2	2	1	**3**
	U-Bolt	U-1880	Set	0	0	0	0	0	0	2	2	1	**3**
	Ball Eyes	QH-7	Set	0	0	0	0	0	0	2	2	1	**3**
	Socket Eyes	W-7A	Piece	0	0	0	0	0	0	2	2	1	**3**
	Suspension Clamps	XGH-5	Piece	0	0	0	0	0	0	2	2	1	**3**

	Preformed Armour Rods	FYH-200	Piece	0	0	0	0	0	0	2	2	1	**3**
	Post Insulator	9214281	Piece	0	0	0	0	2	6	0	0	1	**7**
OPGW Suspension Fitting (Angle Steel)	Suspension Clamps		Piece	1	4	0	0	0	0	0	0	1	**5**
	Rubber Jacket		Piece	1	4	0	0	0	0	0	0	1	**5**
	Outer Rods		Piece	1	4	0	0	0	0	0	0	1	**5**
	Reinforcing Rods		Piece	1	4	0	0	0	0	0	0	1	**5**
	Eye Link	ZH-7	Piece	1	4	0	0	0	0	0	0	1	**5**
	Shackles	U-7	Piece	1	4	0	0	0	0	0	0	1	**5**
	Underground AL Strip		Piece	1	4	0	0	0	0	0	0	1	**5**
	Grounding Wire	LJ-95mm sq.	metre	1	4	0	0	0	0	0	0	1	**5**
	Bolt	DIA-16mm L-260mm	Piece	1	4	0	0	0	0	0	0	1	**5**
	Bush		Piece	1	4	0	0	0	0	0	0	1	**5**
	Nut	M16	Piece	2	8	0	0	0	0	0	0	2	**10**
OPGW Suspension Fitting (Wood Pole)	Suspension Clamps		Piece	0	0	0	0	0	0	0	0	0	**0**
	Rubber Jacket		Piece	0	0	0	0	0	0	0	0	0	**0**
	Outer Rods		Piece	0	0	0	0	0	0	0	0	0	**0**
	Reinforcing Rods		Piece	0	0	0	0	0	0	0	0	0	**0**
	Eye Link	ZH-7	Piece	0	0	0	0	0	0	0	0	0	**0**
	Shackles	U-7	Piece	0	0	0	0	0	0	0	0	0	**0**
	Underground AL Strip		Piece	0	0	0	0	0	0	0	0	0	**0**
	Grounding Wire	LJ-95mm sq.	metre	0	0	0	0	0	0	0	0	0	**0**
	Bolt	DIA-16mm L-490mm	Piece	0	0	0	0	0	0	0	0	0	**0**
	Bush		Piece	0	0	0	0	0	0	0	0	0	**0**
	Pad		Piece	0	0	0	0	0	0	0	0	0	**0**
	Nut	M16	Piece	0	0	0	0	0	0	0	0	0	**0**
	Wood Screws	M16	Piece	0	0	0	0	0	0	0	0	0	**0**
OPGW Tension Fitting	Shackles	U-7	Piece	0	0	2	0	2	6	2	2	2	**10**
	Strength Extension Link	PH-7	Piece	0	0	2	0	2	6	2	2	2	**10**
	Thimble	NZ-7	Piece	0	0	2	0	2	6	2	2	2	**10**
	Outer Rods		Piece	0	0	2	0	2	6	2	2	2	**10**
	Reinforcing Rods		Piece	0	0	2	0	2	6	2	2	2	**10**
	Underground AL Strip		Piece	0	0	2	0	2	6	2	2	2	**10**
	Grounding Wire		metre	0	0	2.4	0	2.4	7.2	2.4	2.4	2.4	**12**
	Downlead Clamp	For Wood Pole	Piece	0	0	10	0	10	30	10	10	10	**50**
	Pole Band	BG-240 DIA 210-240mm	Piece	0	0	2	0	2	6	2	2	2	**10**

Ground Wire Tension Assembly	Clevises	ZS-7	Piece	0	0	0	0	2	6	2	2	1	**9**
	Wedge Clamps	NX-2	Piece	0	0	0	0	2	6	2	2	1	**9**
	Guy Clips	JK-2	Piece	0	0	0	0	2	6	2	2	1	**9**
	Parallel Clamps	JBB-3	Piece	6	24	15	0	12	36	12	12	25	**97**
	Staples	50x15x4mm	Piece	35	140	35	0	70	210	70	70	20	**440**
	Terminal	DL-100	Piece	3	12	13	0	10	30	10	10	6	**58**
	Cable Guard	PVC DIA-20mm L-1500mm	Piece	2	8	2	0	4	12	4	4	2	**26**
	Mounting Strap	Ohm Type d-2mm	Piece	4	16	4	0	8	24	8	8	6	**54**
	Lag Bolt	d-6 L-65mm	Piece	8	32	8	0	16	48	16	16	10	**106**
	Danger Plate		Piece	1	4	1	0	2	6	2	2	3	**15**
	Pole Number Plate		Piece	1	4	1	0	1	3	1	1	2	**10**
	Grounding Rod	L60x6 L-2500mm	Piece	1	4	1	0	1	3	1	1	4	**12**
	Lag Bolt	d-16 L-80mm	Piece	0	0	28	0	12	36	12	12	8	**56**
	Round Washer	d-16	Piece	0	0	28	0	12	36	12	12	8	**56**
	Lag Bolt	d-20 L-120mm	Piece	0	0	6	0	0	0	0	0	2	**2**
	Round Washer	d-20	Piece	0	0	6	0	0	0	0	0	2	**2**
	Downlead Clamp	For Wood Pole	Piece	0	0	0	0	1	3	1	1	2	**6**
	Remaining Cable Shelf Joint Box		Piece	0	0	0	0	0	0	0	0	1	**1**
	Pole Band	BG-240 DIA 210-240mm	Piece	0	0	0	0	2	6	2	2	1	**9**
Ground Wire Odd & Even Transform Assembly	Parallel Clamps	JBB-2	Piece	0	0	0	0	6	18	1	1	2	**21**
	Guy Clips	JK-2	Piece	0	0	0	0	12	36	2	2	2	**40**
	Galvanized Steel Wire	#14 DIA 2mm	metre	0	0	0	0	8	24	1	1	3	**28**
	Grounding Wire	GJ-2.6x19 100.88mm sq.	metre	30	120	30	0	40	120	40	40	50	**330**
	Conductor Wire	AAAC Canton 199.9mm sq.	metre	0	0	0	0	0	0	0	0	0	**2100**
	OPGW Wire	OPGW-12B1-60	metre	0	0	0	0	0	0	0	0	0	**675**
	Steel Strand Ground Wire	GJ-50 50mm sq.	metre	0	0	0	0	100	300	50	50	20	**370**
Ground Wire Suspension Assembly	Clevises	ZS-7	Piece	0	0	0	0	0	0	0	0	0	**0**
	Suspension Clamps	XGU-2	Piece	0	0	0	0	0	0	0	0	0	**0**
Grounding Rod Connector	Grounding Connector	T type d-10	Piece	1	4	1	0	1	3	1	1	15	**23**
	Strap	d-6 ID-15mm L=60mm	Piece	3	12	3	0	3	9	3	3	30	**54**
	Bolt	M12x45	Piece	6	24	6	0	6	18	6	6	30	**78**

	Bolt	M16x45	Piece	2	8	2	0	2	6	2	2	20	**36**
	Splicing Sleeves	JY-200L	Piece	0	0	0	0	0	0	0	0	0	**0**
	Galvanized Round Iron	d - 8	metre	0	0	0	0	0	0	0	0	0	**75**
	Galvanized Round Iron	d -6	metre	0	0	0	0	0	0	0	0	0	**40**
	Galvanized	d -4	metre	0	0	0	0	0	0	0	0	0	**100**
	Bolt (with nut/washer)	d-16 L-40mm	Piece	0	0	0	0	0	0	0	0	0	**0**
	Ground Wire Bayonet	L100x8 L=2500mm	Piece	1	4	0	0	0	0	0	0	4	**8**
	Bayonet Bolt	D=22 L=350mm	Piece	1	4	0	0	0	0	0	0	4	**8**
	Top Timber Block	200x250x1600 mm	Piece	1	4	0	0	0	0	0	0	4	**8**
	Bottom Timber Block	150x250x800 mm	Piece	1	4	0	0	0	0	0	0	4	**8**
	U type Bolt	D=12 L=1526mm	Piece	2	8	0	0	0	0	0	0	8	**16**
	Wooden Cushion	60x700x900 mm	Piece	0	0	0	0	0	0	0	0		**0**
	Wooden Cushion	60x1100x1100 mm	Piece	0	0	1	0	2	6	2	2	3	**11**
	Anchor Log	D=300mm L=1600mm	Piece	0	0	4	0	6	18	5	5	6	**29**
	Guy Wire	GJ-1*7-11.4-1175	metre	0	0	76	0	180	540	110	110	100	**750**
	Guy Wire	GJ-1*7-9.6-1175	metre	0	0	0	0	0	0	0	0	0	**0**
	Guy Wire Hoop	J6270	set	0	0	8	0	3	9	0	0	6	**15**
	Guy Bolt	D=16 L=520mm	set	0	0	0	0	2	6	2	2	4	**12**
	Anchor Rod	D=20 L=2850mm	Piece	0	0	4	0	6	18	5	5	6	**29**
	Anchor Rod	D=18 L=2850mm	Piece	0	0	0	0	0	0	0	0	0	**0**
	UT clamp	NUT-2	Piece	0	0	4	0	6	18	5	5	6	**29**
	Guy Wire Clip	GQ-4 (GQ-3)	Piece	0	0	16	0	28	84	24	24	24	**132**
	Galvanize Steel Wire	#12	metre	0	0	24	0	42	126	36	36	50	**212**
	Guy Guard	D=60 PVC L=1m	set	0	0	4	0	6	18	5	5	6	**29**
	Conductor Wire Bayonet	2L125x12, L=6100mm	set	0	0	0	0	1	3	1	1	2	**6**
	Steel Plate for Bayonet	160x200, L=700mm	set	0	0	0	0	3	9	0	0	2	**11**
	Pole Bands	J6270	Set	0	0	0	0	0	0	3	3	3	**6**
	Reinforced Concrete Pole	19m	Piece	1	4	1	0	2	6	0	0	1	**11**

SCHEDULE OF REQUIREMENTS

IFB # GPL-PD-052-2022

Supply of: Transmission Line Hardware & Materials

LOT 2 – 69kV Transmission Line – New Sophia

Material List Breakdown: 69kV Transmission Line from UG Road to New Sophia

			Structure Type	A1-60 Tangent Pole		E-60 Section Angle Pole		R-60 Angle Portal Pole		R1-60 Angle Portal Pole			
			Amount	29		3		2		2			
			Quantity	Unit	Sub-total	Unit	Sub-total	Unit	Sub-total	Unit	Sub-total	Spare	TOTAL
Overall Item	**Individual Item Name**	**Specification**	**Unit**										
Horizontal Post Insulator Assembly	Horizontal Post Insulator	9214280	Piece	3	87	3	9	0	0	0	0	2	**98**
	Insulator Base	with Insulator	Piece	3	87	3	9	0	0	0	0	2	**98**
	Fixed Clamp	For AAAC with 18.3mm DIA	Piece	3	87	3	9	0	0	0	0	2	**98**
	Mounting Bolts	DIA-22mm L-350mm	Piece	6	174	0	0	0	0	0	0	5	**179**
	Plate	55X360mm d-6mm	Piece	3	87	0	0	0	0	0	0	2	**89**
	Preformed Armour Rods	FYH-200	Piece	3	87	3	9	0	0	0	0	2	**98**
Tension Insulator Assembly	Tension Insulator	913375	Piece	0	0	6	18	6	12	6	12	2	**44**
	Shackles	U-7	Piece	0	0	12	36	12	24	12	24	4	**88**
	Ball Eyes	QP-7	Piece	0	0	6	18	0	0	0	0		**18**
	Ball Eyes	QH-7	Piece	0	0	0	0	6	12	6	12	2	**26**
	Socket Eyes	W-7A	Piece	0	0	6	18	6	12	6	12	2	**44**
	Dead End (Compression)	NY-200 (For Canton)	Piece	0	0	6	18	6	12	6	12	2	**44**
Suspension Insulator Assembly	Suspension Insulator	913375	Piece	0	0	0	0	0	0	2	4	1	**5**
	U-Bolt	U-1880	Set	0	0	0	0	0	0	2	4	1	**5**
	Ball Eyes	QH-7	Set	0	0	0	0	0	0	2	4	1	**5**
	Socket Eyes	W-7A	Piece	0	0	0	0	0	0	2	4	1	**5**
	Suspension Clamps	XGH-5	Piece	0	0	0	0	0	0	2	4	1	**5**

	Preformed Armour Rods	FYH-200	Piece	0	0	0	0	0	0	2	4	1	**5**
	Post Insulator	9214281	Piece	0	0	0	0	2	4	0	0	1	**5**
OPGW Suspension Fitting (Angle Steel)	Suspension Clamps		Piece	1	29	0	0	0	0	0	0	1	**30**
	Rubber Jacket		Piece	1	29	0	0	0	0	0	0	1	**30**
	Outer Rods		Piece	1	29	0	0	0	0	0	0	1	**30**
	Reinforcing Rods		Piece	1	29	0	0	0	0	0	0	1	**30**
	Eye Link	ZH-7	Piece	1	29	0	0	0	0	0	0	1	**30**
	Shackles	U-7	Piece	1	29	0	0	0	0	0	0	1	**30**
	Underground AL Strip		Piece	1	29	0	0	0	0	0	0	1	**30**
	Grounding Wire	LJ-95mm sq.	metre	1	29	0	0	0	0	0	0	1	**30**
	Bolt	DIA-16mm L-260mm	Piece	1	29	0	0	0	0	0	0	1	**30**
	Bush		Piece	1	29	0	0	0	0	0	0	1	**30**
	Nut	M16	Piece	2	58	0	0	0	0	0	0	2	**60**
OPGW Suspension Fitting (Wood Pole)	Suspension Clamps		Piece	0	0	0	0	0	0	0	0	0	**0**
	Rubber Jacket		Piece	0	0	0	0	0	0	0	0	0	**0**
	Outer Rods		Piece	0	0	0	0	0	0	0	0	0	**0**
	Reinforcing Rods		Piece	0	0	0	0	0	0	0	0	0	**0**
	Eye Link	ZH-7	Piece	0	0	0	0	0	0	0	0	0	**0**
	Shackles	U-7	Piece	0	0	0	0	0	0	0	0	0	**0**
	Underground AL Strip		Piece	0	0	0	0	0	0	0	0	0	**0**
	Grounding Wire	LJ-95mm sq.	metre	0	0	0	0	0	0	0	0	0	**0**
	Bolt	DIA-16mm L-490mm	Piece	0	0	0	0	0	0	0	0	0	**0**
	Bush		Piece	0	0	0	0	0	0	0	0	0	**0**
	Pad		Piece	0	0	0	0	0	0	0	0	0	**0**
	Nut	M16	Piece	0	0	0	0	0	0	0	0	0	**0**
	Wood Screws	M16	Piece	0	0	0	0	0	0	0	0	0	**0**
OPGW Tension Fitting	Shackles	U-7	Piece	0	0	2	6	2	4	2	4	2	**16**
	Strength Extension Link	PH-7	Piece	0	0	2	6	2	4	2	4	2	**16**
	Thimble	NZ-7	Piece	0	0	2	6	2	4	2	4	2	**16**
	Outer Rods		Piece	0	0	2	6	2	4	2	4	2	**16**
	Reinforcing Rods		Piece	0	0	2	6	2	4	2	4	2	**16**
	Underground AL Strip		Piece	0	0	2	6	2	4	2	4	2	**16**
	Grounding Wire		metre	0	0	2.4	7.2	2.4	4.8	2.4	4.8	2.4	**19.2**
	Downlead Clamp	For Wood Pole	Piece	0	0	10	30	10	20	10	20	10	**80**

	Pole Band	BG-240 DIA 210-240mm	Piece	0	0	2	6	2	4	2	4	2	**16**
Ground Wire Tension Assembly	Clevises	ZS-7	Piece	0	0	0	0	2	4	2	4	1	**9**
	Wedge Clamps	NX-2	Piece	0	0	0	0	2	4	2	4	1	**9**
	Guy Clips	JK-2	Piece	0	0	0	0	2	4	2	4	1	**9**
	Parallel Clamps	JBB-3	Piece	6	174	15	45	12	24	12	24	25	**292**
	Staples	50x15x4mm	Piece	35	1015	35	105	70	140	70	140	20	**1420**
	Terminal	DL-100	Piece	3	87	13	39	10	20	10	20	6	**172**
	Cable Guard	PVC DIA-20mm L-1500mm	Piece	2	58	2	6	4	8	4	8	2	**82**
	Mounting Strap	Ohm Type d-2mm	Piece	4	116	4	12	8	16	8	16	6	**166**
	Lag Bolt	d-6 L-65mm	Piece	8	232	8	24	16	32	16	32	10	**330**
	Danger Plate		Piece	1	29	1	3	2	4	2	4	3	**43**
	Pole Number Plate		Piece	1	29	1	3	1	2	1	2	2	**38**
	Grounding Rod	L60x6 L-2500mm	Piece	1	29	1	3	1	2	1	2	4	**40**
	Lag Bolt	d-16 L-80mm	Piece	0	0	28	84	12	24	12	24	8	**140**
	Round Washer	d-16	Piece	0	0	28	84	12	24	12	24	8	**140**
	Lag Bolt	d-20 L-120mm	Piece	0	0	6	18	0	0	0	0	2	**20**
	Round Washer	d-20	Piece	0	0	6	18	0	0	0	0	2	**20**
	Downlead Clamp	For Wood Pole	Piece	0	0	0	0	1	2	1	2	2	**6**
	Remaining Cable Shelf Joint Box		Piece	0	0	0	0	0	0	0	0	1	**1**
	Pole Band	BG-240 DIA 210-240mm	Piece	0	0	0	0	2	4	2	4	1	**9**
Ground Wire Odd & Even Transform Assembly	Parallel Clamps	JBB-2	Piece	0	0	0	0	6	12	1	2	2	**16**
	Guy Clips	JK-2	Piece	0	0	0	0	12	24	2	4	2	**30**
	Galvanized Steel Wire	#14 DIA 2mm	metre	0	0	0	0	8	16	1	2	3	**21**
	Grounding Wire	GJ-2.6x19 100.88mm sq.	metre	30	870	30	90	40	80	40	80	100	**1220**
	Conductor Wire	AAAC Canton 199.9mm sq.	metre	0	0	0	0	0	0	0	0	0	**12100**
	OPGW Wire	OPGW-12B1-60	metre	0	0	0	0	0	0	0	0	0	**4050**
	Steel Strand Ground Wire	GJ-50 50mm sq.	metre	0	0	0	0	100	200	50	100	20	**320**
Ground Wire Suspension Assembly	Clevises	ZS-7	Piece	0	0	0	0	0	0	0	0	0	**0**
	Suspension Clamps	XGU-2	Piece	0	0	0	0	0	0	0	0	0	**0**

Grounding Rod Connector	Grounding Connector	T type d-10	Piece	1	29	1	3	1	2	1	2	15	**51**
	Strap	d-6 ID-15mm L=60mm	Piece	3	87	3	9	3	6	3	6	30	**138**
	Bolt	M12x45	Piece	6	174	6	18	6	12	6	12	30	**246**
	Bolt	M16x45	Piece	2	58	2	6	2	4	2	4	20	**92**
	Splicing Sleeves	JY-200L	Piece	0	0	0	0	0	0	0	0	0	**0**
	Galvanized Round Iron	d - 8	metre	0	0	0	0	0	0	0	0	0	**500**
	Galvanized Round Iron	d -6	metre	0	0	0	0	0	0	0	0	0	**250**
	Galvanized	d -4	metre	0	0	0	0	0	0	0	0	0	**750**
	Bolt (with nut/washer)	d-16 L-40mm	Piece	0	0	0	0	0	0	0	0	0	**0**
	Ground Wire Bayonet	L100x8 L=2500mm	Piece	1	29	0	0	0	0	0	0	4	**33**
	Bayonet Bolt	D=22 L=350mm	Piece	1	29	0	0	0	0	0	0	4	**33**
	Top Timber Block	200x250x1600 mm	Piece	1	29	0	0	0	0	0	0	4	**33**
	Bottom Timber Block	150x250x800 mm	Piece	1	29	0	0	0	0	0	0	4	**33**
	U type Bolt	D=12 L=1526mm	Piece	2	58	0	0	0	0	0	0	8	**66**
	Wooden Cushion	60x700x900 mm	Piece	0	0	0	0	0	0	0	0		**0**
	Wooden Cushion	60x1100x1100 mm	Piece	0	0	1	3	2	4	2	4	3	**14**
	Anchor Log	D=300mm L=1600mm	Piece	0	0	4	12	6	12	5	10	6	**40**
	Guy Wire	GJ-1*7-11.4-1175	metre	0	0	76	228	180	360	110	220	250	**1058**
	Guy Wire	GJ-1*7-9.6-1175	metre	0	0	0	0	0	0	0	0	0	**0**
	Guy Wire Hoop	J6270	set	0	0	8	24	3	6	0	0	6	**36**
	Guy Bolt	D=16 L=520mm	set	0	0	0	0	2	4	2	4	4	**12**
	Anchor Rod	D=20 L=2850mm	Piece	0	0	4	12	6	12	5	10	6	**40**
	Anchor Rod	D=18 L=2850mm	Piece	0	0	0	0	0	0	0	0	0	**0**
	UT clamp	NUT-2	Piece	0	0	4	12	6	12	5	10	6	**40**
	Guy Wire Clip	GQ-4 (GQ-3)	Piece	0	0	16	48	28	56	24	48	24	**176**
	Galvanize Steel Wire	#12	metre	0	0	24	72	42	84	36	72	50	**278**
	Guy Guard	D=60 PVC L=1m	set	0	0	4	12	6	12	5	10	6	**40**
	Conductor Wire Bayonet	2L125x12, L=6100mm	set	0	0	0	0	1	2	1	2	2	**6**
	Steel Plate for Bayonet	160x200, L=700mm	set	0	0	0	0	3	6	0	0	2	**8**
	Pole Bands	J6270	Set	0	0	0	0	0	0	3	6	3	**9**
	Reinforced Concrete Pole	19m	Piece	1	29	1	3	2	4	0	0	1	**37**
	Tubular Steel Monopole	22m	Piece	0	4	0	0	0	0	0	0	1	**5**
	Steel Lattice Structure	20m	Piece	0	0	0	0	0	0	0	0	0	**1**

SCHEDULE OF REQUIREMENTS

IFB # GPL-PD-052-2022

Supply of: Transmission Line Hardware & Materials

LOT 3 – 69kV Transmission Line – Columbia

Material List Breakdown: 69kV Transmission Line from Plant to Columbia Sub

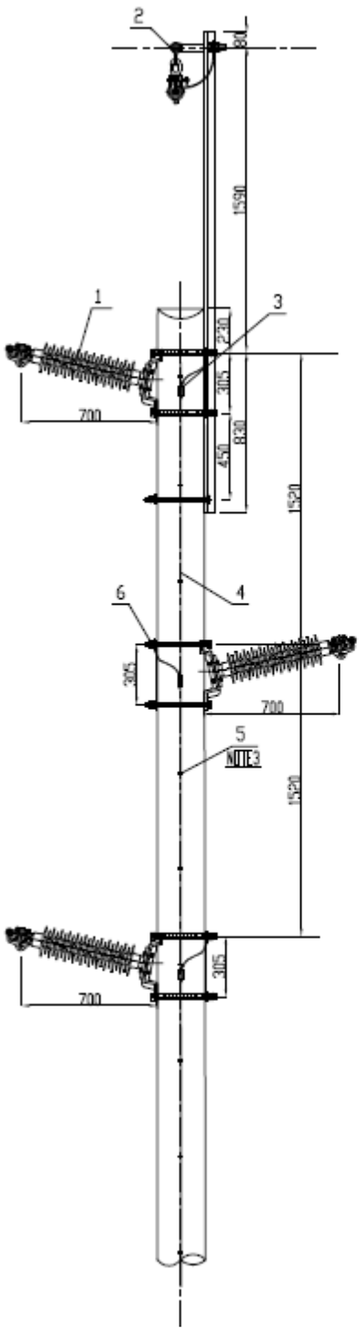
				Structure Type	A1-60 Tangent Pole		E-60 Section Angle Pole		R-60 Angle Portal Pole		R1-60 Angle Portal Pole			
				Amount	1		0		3		1			
				Quantity	Unit	Sub-total	Unit	Sub-total	Unit	Sub-total	Unit	Sub-total	Spare	TOTAL
No.	Overall Item	Individual Item Name	Specification	Unit										
1	Horizontal Post Insulator Assembly	Horizontal Post Insulator	9214280	Piece	3	3	3	0	0	0	0	0	2	**5**
2		Insulator Base	with Insulator	Piece	3	3	3	0	0	0	0	0	2	**5**
3		Fixed Clamp	For AAAC with 18.3mm DIA	Piece	3	3	3	0	0	0	0	0	2	**5**
4		Mounting Bolts	DIA-22mm L-350mm	Piece	6	6	0	0	0	0	0	0	5	**11**
5		Plate	55X360mm d-6mm	Piece	3	3	0	0	0	0	0	0	2	**5**
6		Preformed Armour Rods	FYH-200	Piece	3	3	3	0	0	0	0	0	2	**5**
7	Tension Insulator Assembly	Tension Insulator	913375	Piece	0	0	6	0	6	18	6	6	2	**26**
8		Shackles	U-7	Piece	0	0	12	0	12	36	12	12	4	**52**
9		Ball Eyes	QP-7	Piece	0	0	6	0	0	0	0	0		**0**
10		Ball Eyes	QH-7	Piece	0	0	0	0	6	18	6	6	2	**26**
11		Socket Eyes	W-7A	Piece	0	0	6	0	6	18	6	6	2	**26**
12		Dead End (Compression)	NY-200 (For Canton)	Piece	0	0	6	0	6	18	6	6	2	**26**
13	Suspension Insulator Assembly	Suspension Insulator	913375	Piece	0	0	0	0	0	0	2	2	1	**3**
14		U-Bolt	U-1880	Set	0	0	0	0	0	0	2	2	1	**3**
15		Ball Eyes	QH-7	Set	0	0	0	0	0	0	2	2	1	**3**
16		Socket Eyes	W-7A	Piece	0	0	0	0	0	0	2	2	1	**3**
17		Suspension Clamps	XGH-5	Piece	0	0	0	0	0	0	2	2	1	**3**

18		Preformed Armour Rods	FYH-200	Piece	0	0	0	0	0	0	2	2	1	**3**
19		Post Insulator	9214281	Piece	0	0	0	0	2	6	0	0	1	**7**
20	OPGW Suspension Fitting (Angle Steel)	Suspension Clamps		Piece	1	1	0	0	0	0	0	0	1	**2**
21		Rubber Jacket		Piece	1	1	0	0	0	0	0	0	1	**2**
22		Outer Rods		Piece	1	1	0	0	0	0	0	0	1	**2**
23		Reinforcing Rods		Piece	1	1	0	0	0	0	0	0	1	**2**
24		Eye Link	ZH-7	Piece	1	1	0	0	0	0	0	0	1	**2**
25		Shackles	U-7	Piece	1	1	0	0	0	0	0	0	1	**2**
26		Underground AL Strip		Piece	1	1	0	0	0	0	0	0	1	**2**
27		Grounding Wire	LJ-95mm sq.	metre	1	1	0	0	0	0	0	0	1	**2**
28		Bolt	DIA-16mm L-260mm	Piece	1	1	0	0	0	0	0	0	1	**2**
29		Bush		Piece	1	1	0	0	0	0	0	0	1	**2**
30		Nut	M16	Piece	2	2	0	0	0	0	0	0	2	**4**
31	OPGW Suspension Fitting (Wood Pole)	Suspension Clamps		Piece	0	0	0	0	0	0	0	0	0	**0**
32		Rubber Jacket		Piece	0	0	0	0	0	0	0	0	0	**0**
33		Outer Rods		Piece	0	0	0	0	0	0	0	0	0	**0**
34		Reinforcing Rods		Piece	0	0	0	0	0	0	0	0	0	**0**
35		Eye Link	ZH-7	Piece	0	0	0	0	0	0	0	0	0	**0**
36		Shackles	U-7	Piece	0	0	0	0	0	0	0	0	0	**0**
37		Underground AL Strip		Piece	0	0	0	0	0	0	0	0	0	**0**
38		Grounding Wire	LJ-95mm sq.	metre	0	0	0	0	0	0	0	0	0	**0**
39		Bolt	DIA-16mm L-490mm	Piece	0	0	0	0	0	0	0	0	0	**0**
40		Bush		Piece	0	0	0	0	0	0	0	0	0	**0**
41		Pad		Piece	0	0	0	0	0	0	0	0	0	**0**
42		Nut	M16	Piece	0	0	0	0	0	0	0	0	0	**0**
43		Wood Screws	M16	Piece	0	0	0	0	0	0	0	0	0	**0**
44	OPGW Tension Fitting	Shackles	U-7	Piece	0	0	2	0	2	6	2	2	2	**10**
45		Strength Extension Link	PH-7	Piece	0	0	2	0	2	6	2	2	2	**10**
46		Thimble	NZ-7	Piece	0	0	2	0	2	6	2	2	2	**10**
47		Outer Rods		Piece	0	0	2	0	2	6	2	2	2	**10**
48		Reinforcing Rods		Piece	0	0	2	0	2	6	2	2	2	**10**
49		Underground AL Strip		Piece	0	0	2	0	2	6	2	2	2	**10**
50		Grounding Wire		metre	0	0	2.4	0	2.4	7.2	2.4	2.4	2.4	**12**
51		Downlead Clamp	For Wood Pole	Piece	0	0	10	0	10	30	10	10	10	**50**

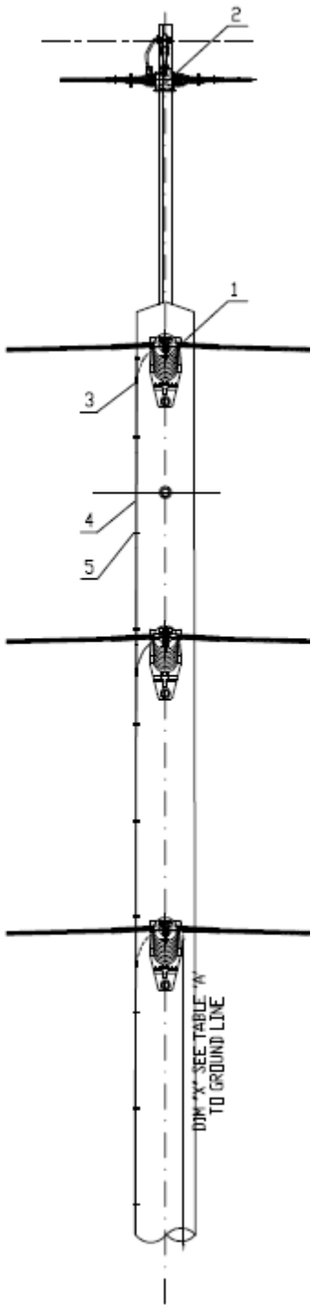
52		Pole Band	BG-240 DIA 210-240mm	Piece	0	0	2	0	2	6	2	2	2	**10**
53	Ground Wire Tension Assembly	Clevises	ZS-7	Piece	0	0	0	0	2	6	2	2	1	**9**
54		Wedge Clamps	NX-2	Piece	0	0	0	0	2	6	2	2	1	**9**
55		Guy Clips	JK-2	Piece	0	0	0	0	2	6	2	2	1	**9**
56		Parallel Clamps	JBB-3	Piece	6	6	15	0	12	36	12	12	25	**79**
57		Staples	50x15x4mm	Piece	35	35	35	0	70	210	70	70	20	**335**
58		Terminal	DL-100	Piece	3	3	13	0	10	30	10	10	6	**49**
59		Cable Guard	PVC DIA-20mm L-1500mm	Piece	2	2	2	0	4	12	4	4	2	**20**
60		Mounting Strap	Ohm Type d-2mm	Piece	4	4	4	0	8	24	8	8	6	**42**
61		Lag Bolt	d-6 L-65mm	Piece	8	8	8	0	16	48	16	16	10	**82**
62		Danger Plate		Piece	1	1	1	0	2	6	2	2	3	**12**
63		Pole Number Plate		Piece	1	1	1	0	1	3	1	1	2	**7**
64		Grounding Rod	L60x6 L-2500mm	Piece	1	1	1	0	1	3	1	1	4	**9**
65		Lag Bolt	d-16 L-80mm	Piece	0	0	28	0	12	36	12	12	8	**56**
66		Round Washer	d-16	Piece	0	0	28	0	12	36	12	12	8	**56**
67		Lag Bolt	d-20 L-120mm	Piece	0	0	6	0	0	0	0	0	2	**2**
68		Round Washer	d-20	Piece	0	0	6	0	0	0	0	0	2	**2**
69		Downlead Clamp	For Wood Pole	Piece	0	0	0	0	1	3	1	1	2	**6**
70		Remaining Cable Shelf Joint Box		Piece	0	0	0	0	0	0	0	0	1	**1**
71		Pole Band	BG-240 DIA 210-240mm	Piece	0	0	0	0	2	6	2	2	1	**9**
72	Ground Wire Odd & Even Transform Assembly	Parallel Clamps	JBB-2	Piece	0	0	0	0	6	18	1	1	2	**21**
73		Guy Clips	JK-2	Piece	0	0	0	0	12	36	2	2	2	**40**
74		Galvanized Steel Wire	#14 DIA 2mm	metre	0	0	0	0	8	24	1	1	3	**28**
75		Grounding Wire	GJ-2.6x19 100.88mm sq.	metre	30	30	30	0	40	120	40	40	50	**240**
		Conductor Wire	AAAC Canton 199.9mm sq.	metre	0	0	0	0	0	0	0	0	0	**725**
76		OPGW Wire	OPGW-12B1-60	metre	0	0	0	0	0	0	0	0	0	**250**
77		Steel Strand Ground Wire	GJ-50 50mm sq.	metre	0	0	0	0	100	300	50	50	20	**370**
78	Ground Wire	Clevises	ZS-7	Piece	0	0	0	0	0	0	0	0	0	**0**
79		Suspension Clamps	XGU-2	Piece	0	0	0	0	0	0	0	0	0	**0**

	Suspension Assembly													
80	Grounding Rod Connector	Grounding Connector	T type d-10	Piece	1	1	1	0	1	3	1	1	15	**20**
81		Strap	d-6 ID-15mm L=60mm	Piece	3	3	3	0	3	9	3	3	30	**45**
82		Bolt	M12x45	Piece	6	6	6	0	6	18	6	6	30	**60**
83		Bolt	M16x45	Piece	2	2	2	0	2	6	2	2	20	**30**
84		Splicing Sleeves	JY-200L	Piece	0	0	0	0	0	0	0	0	0	**0**
85		Galvanized Round Iron	d - 8	metre	0	0	0	0	0	0	0	0	0	**50**
86		Galvanized Round Iron	d -6	metre	0	0	0	0	0	0	0	0	0	**25**
87		Galvanized	d -4	metre	0	0	0	0	0	0	0	0	0	**75**
88		Bolt (with nut/washer)	d-16 L-40mm	Piece	0	0	0	0	0	0	0	0	0	**0**
89		Ground Wire Bayonet	L100x8 L=2500mm	Piece	1	1	0	0	0	0	0	0	4	**5**
90		Bayonet Bolt	D=22 L=350mm	Piece	1	1	0	0	0	0	0	0	4	**5**
91		Top Timber Block	200x250x1600 mm	Piece	1	1	0	0	0	0	0	0	4	**5**
92		Bottom Timber Block	150x250x800 mm	Piece	1	1	0	0	0	0	0	0	4	**5**
93		U type Bolt	D=12 L=1526mm	Piece	2	2	0	0	0	0	0	0	8	**10**
94		Wooden Cushion	60x700x900 mm	Piece	0	0	0	0	0	0	0	0		**0**
95		Wooden Cushion	60x1100x1100 mm	Piece	0	0	1	0	2	6	2	2	3	**11**
96		Anchor Log	D=300mm L=1600mm	Piece	0	0	4	0	6	18	5	5	6	**29**
97		Guy Wire	GJ-1*7-11.4-1175	metre	0	0	76	0	180	540	110	110	100	**750**
98		Guy Wire	GJ-1*7-9.6-1175	metre	0	0	0	0	0	0	0	0	0	**0**
99		Guy Wire Hoop	J6270	set	0	0	8	0	3	9	0	0	6	**15**
100		Guy Bolt	D=16 L=520mm	set	0	0	0	0	2	6	2	2	4	**12**
101		Anchor Rod	D=20 L=2850mm	Piece	0	0	4	0	6	18	5	5	6	**29**
102		Anchor Rod	D=18 L=2850mm	Piece	0	0	0	0	0	0	0	0	0	**0**
103		UT clamp	NUT-2	Piece	0	0	4	0	6	18	5	5	6	**29**
104		Guy Wire Clip	GQ-4 (GQ-3)	Piece	0	0	16	0	28	84	24	24	24	**132**
105		Galvanize Steel Wire	#12	metre	0	0	24	0	42	126	36	36	50	**212**
106		Guy Guard	D=60 PVC L=1m	set	0	0	4	0	6	18	5	5	6	**29**
107		Conductor Wire Bayonet	2L125x12, L=6100mm	set	0	0	0	0	1	3	1	1	2	**6**
108		Steel Plate for Bayonet	160x200, L=700mm	set	0	0	0	0	3	9	0	0	2	**11**
109		Pole Bands	J6270	Set	0	0	0	0	0	0	3	3	3	**6**
110		Reinforced Concrete Pole	19m	Piece	1	1	1	0	2	6	0	0	1	**8**

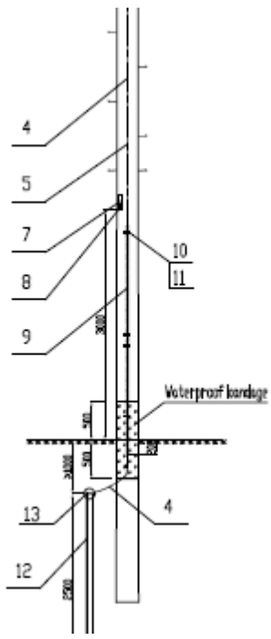
Typical A1-60 Structure



Transverse view

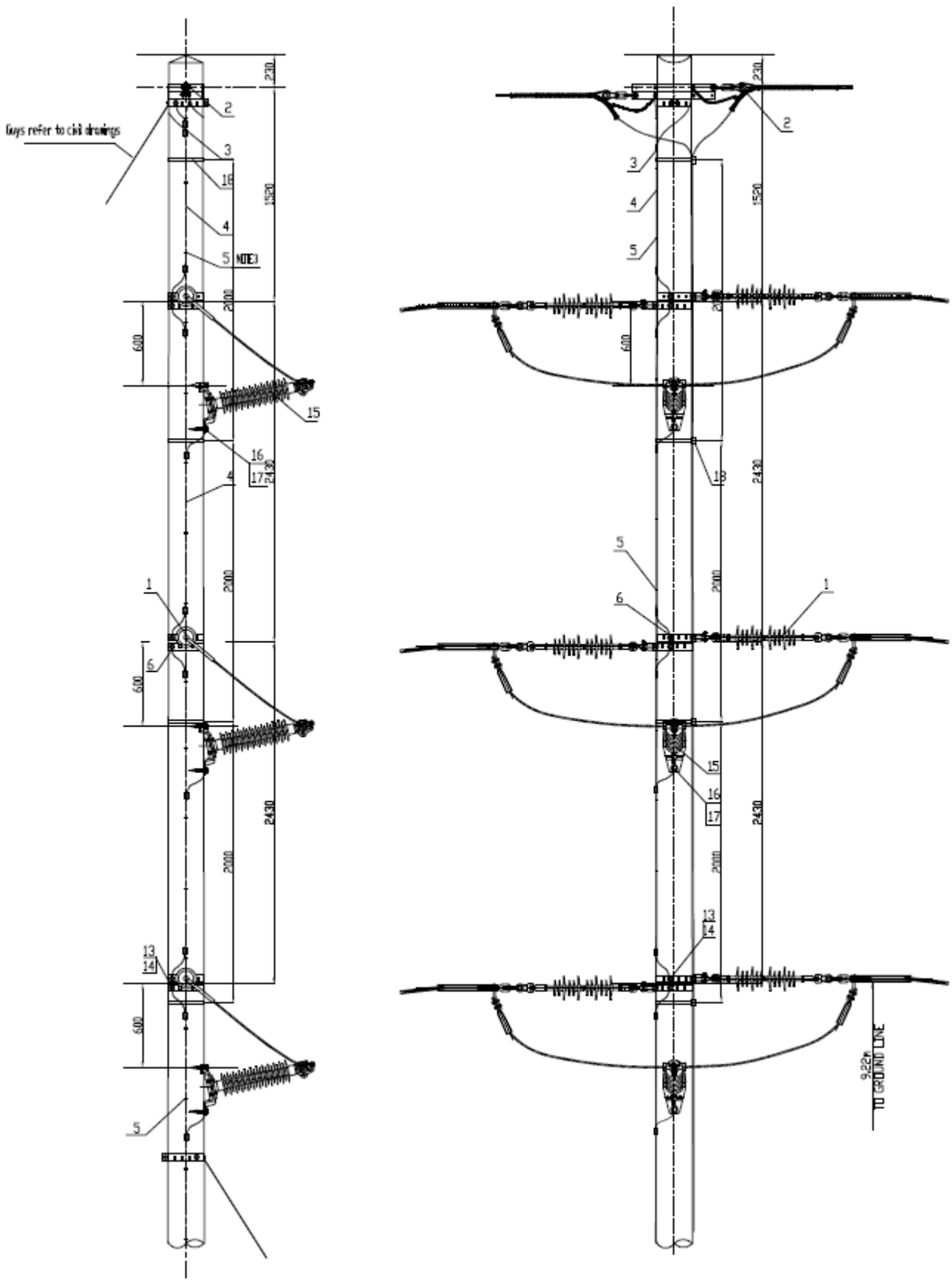


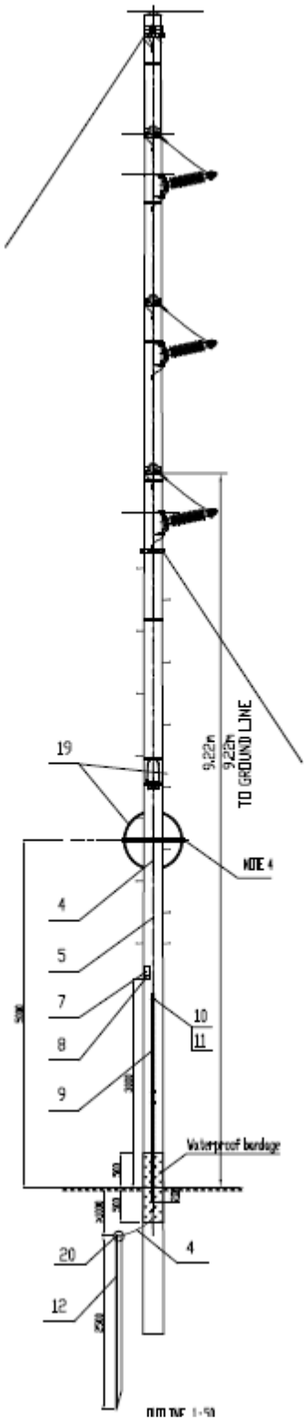
Longitudinal view

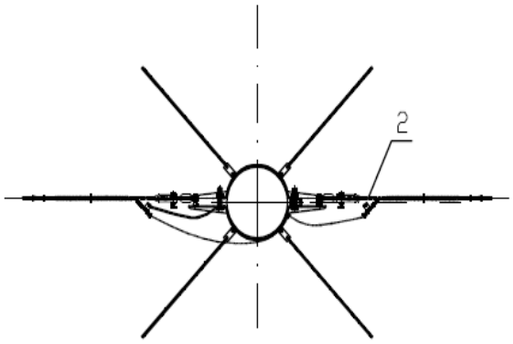


Item #	Description	Specification	Q'ty	Mass	Remarks
1	Horizontal Post Insulator assembly		3		
2	OPGW Suspension Fitting		1		Hot Dipped Galvanized
3	Parallel Clamp Connector		6		Hot Dipped Galvanized
4	Grounding Wire, m		22		Hot Dipped Galvanized
5	Staples		35		Hot Dipped Galvanized
6	Terminal		3		Aluminium
7	Danger Plate		1		Fixed with wood screw and
8	Structure ID Plate		1		Fiberglass washer
9	Cable Guard		2		
10	Mounting Strap		4		Stainless Steel
11	Lag Bolt		8		
12	Grounding Rod		1		Hot Dipped Galvanized
13	Grounding Rod Connector		1		Hot Dipped Galvanized

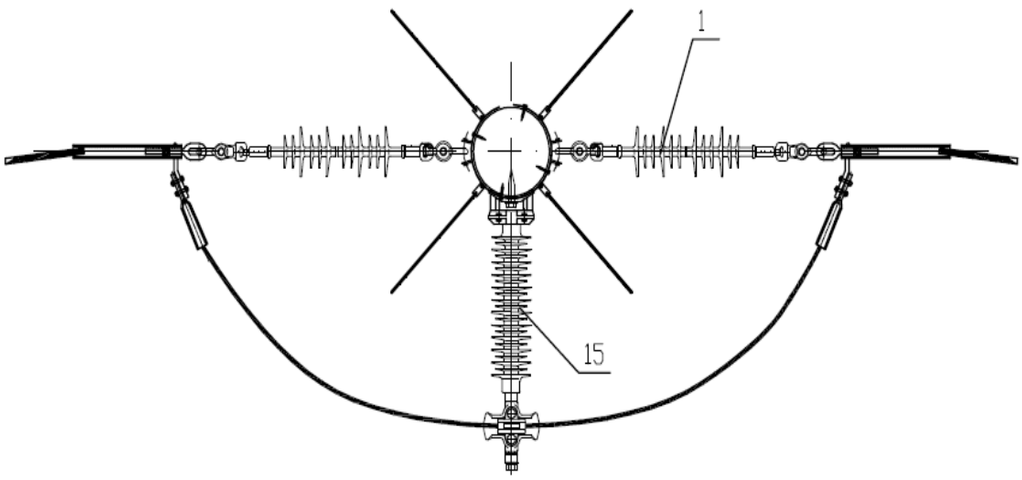
Typical E-60 Structure







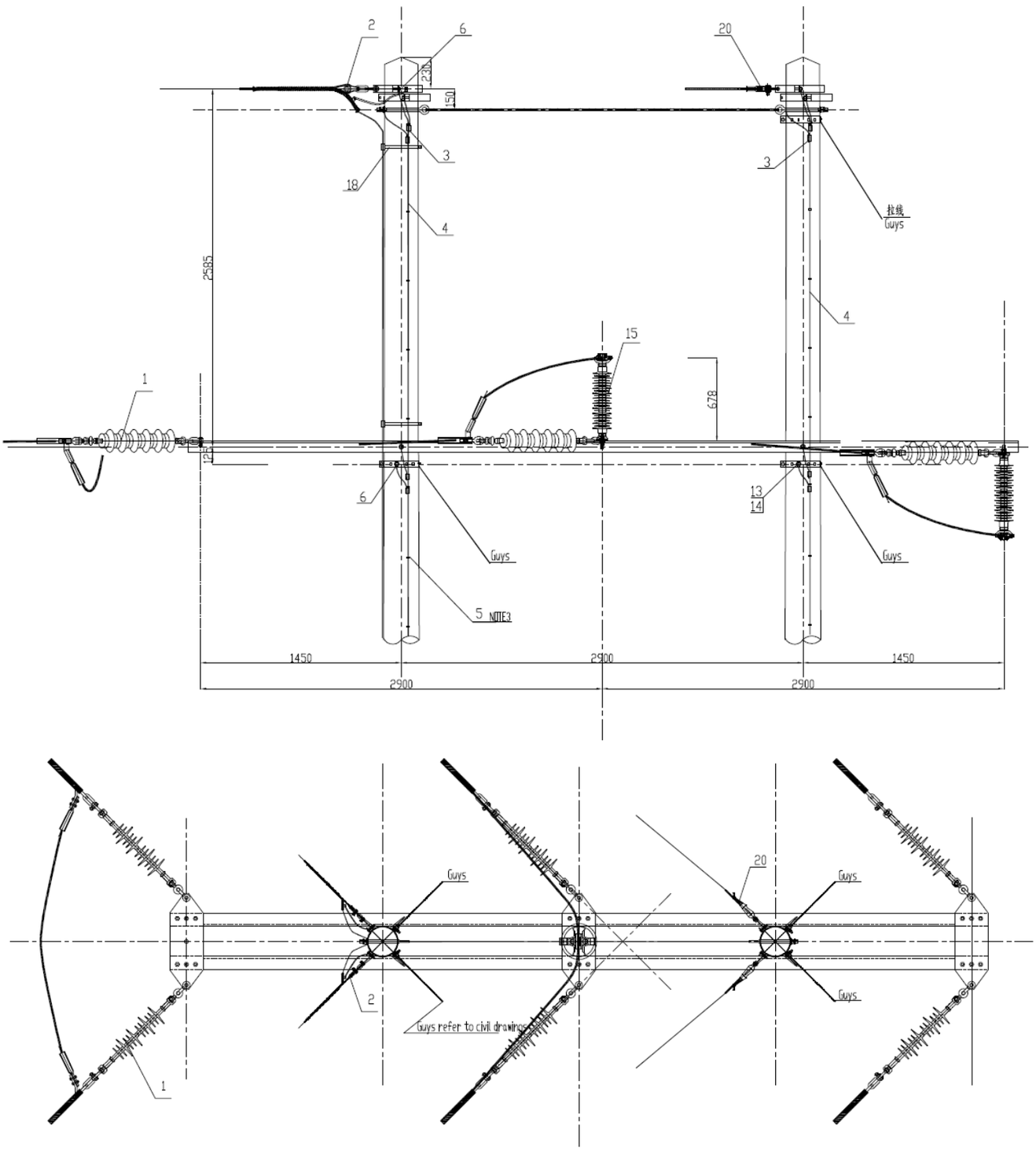
1-1 PLAN VIEW 1:20

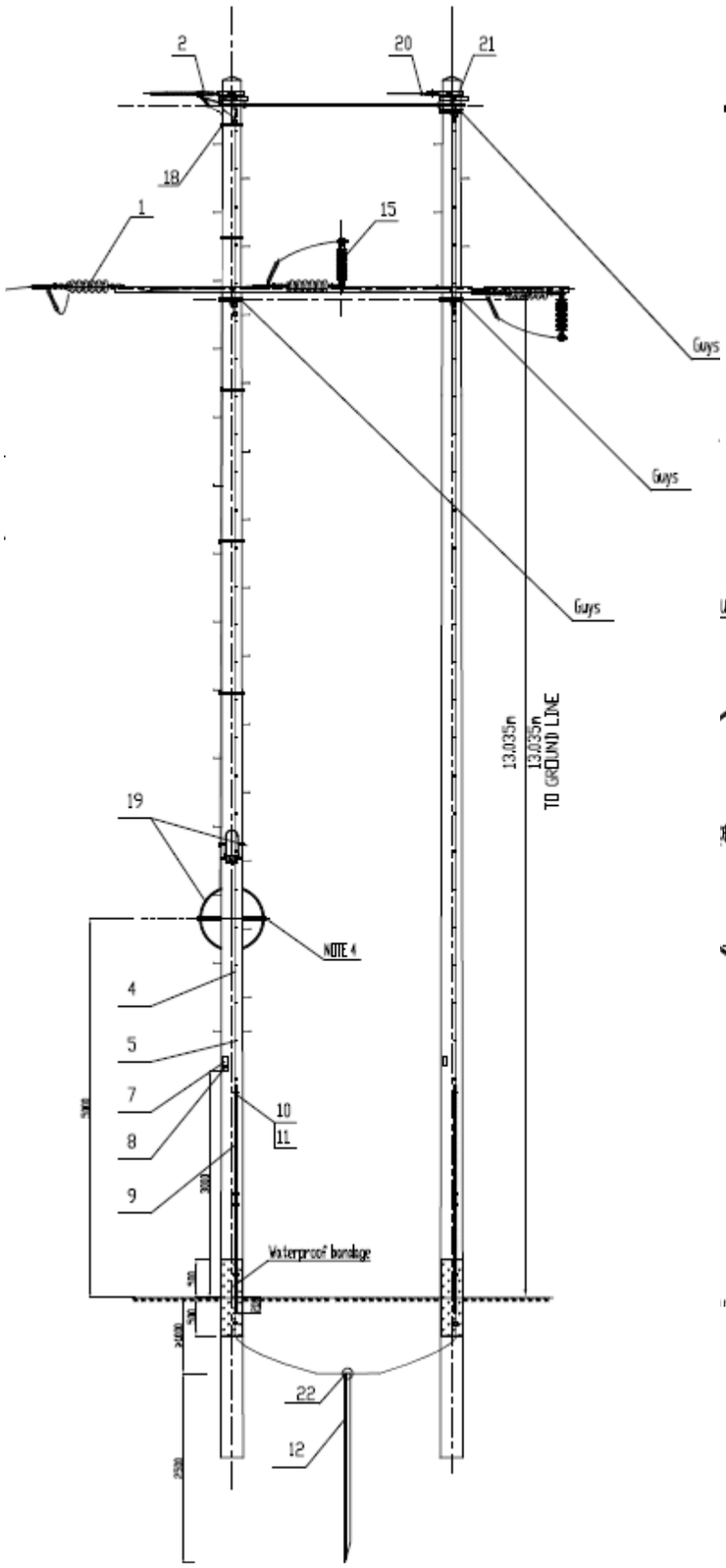


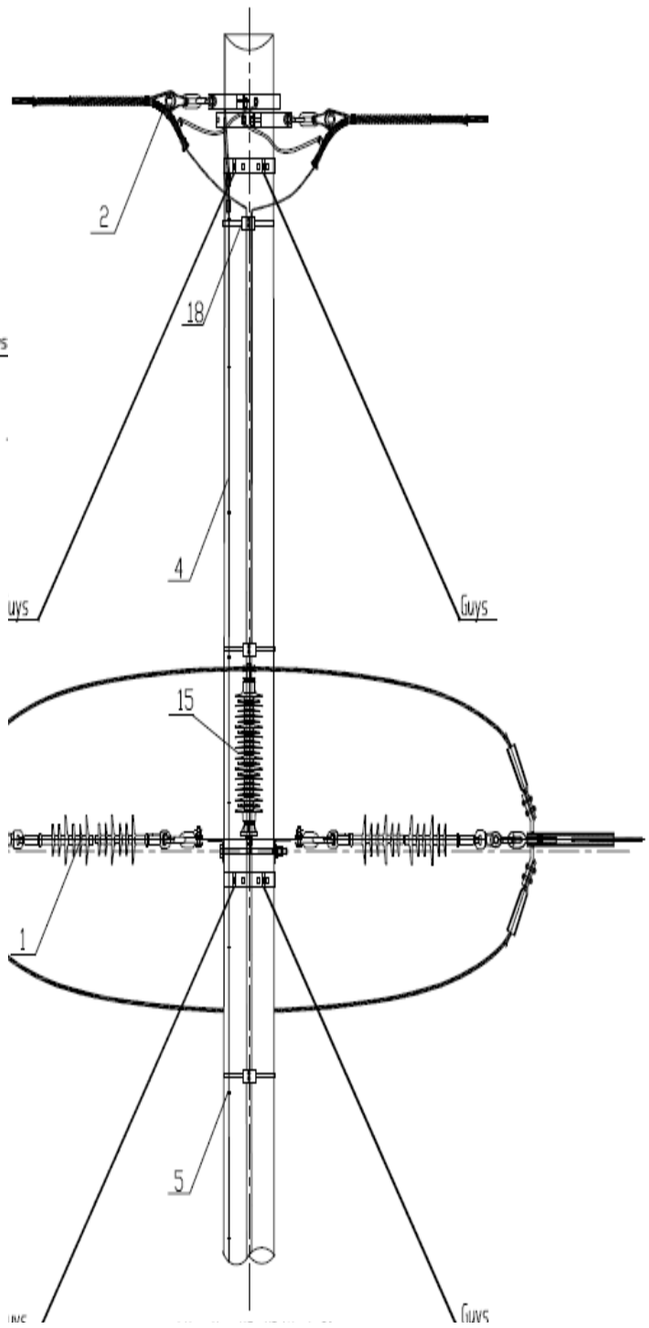
2-2 PLAN VIEW 1:20

Item #	Description	Specification	Q'ty	Mass	Remarks
1	Tension Insulator assembly		6		
2	OPGW Tension Fitting		2		Hot Dipped Galvanized
3	Parallel Clamp Connector		15		Hot Dipped Galvanized
4	Grounding Wire, m		22		Hot Dipped Galvanized
5	Staples		35		Hot Dipped Galvanized
6	Terminal		13		Aluminium
7	Danger Plate		1		Fixed with wood screw and Fiberglass washer
8	Structure ID Plate		1		
9	Cable Guard		2		
10	Mounting Strap		4		Stainless Steel
11	Lag Bolt		8		
12	Grounding Rod		1		Hot Dipped Galvanized
13	Lag Bolt	D = 16, L=60	28		
14	Round Washer	D = 16	28		
15	Horizontal post insulator		3		
16	Lag Bolt	D = 16, L=120	6		
17	Round Washer	D = 16	6		
18	Down lead clamp		6		
19	OPGW Storage		1		
20	Grounding Rod Connector		1		Hot Dipped Galvanized

Typical R-60 Structure

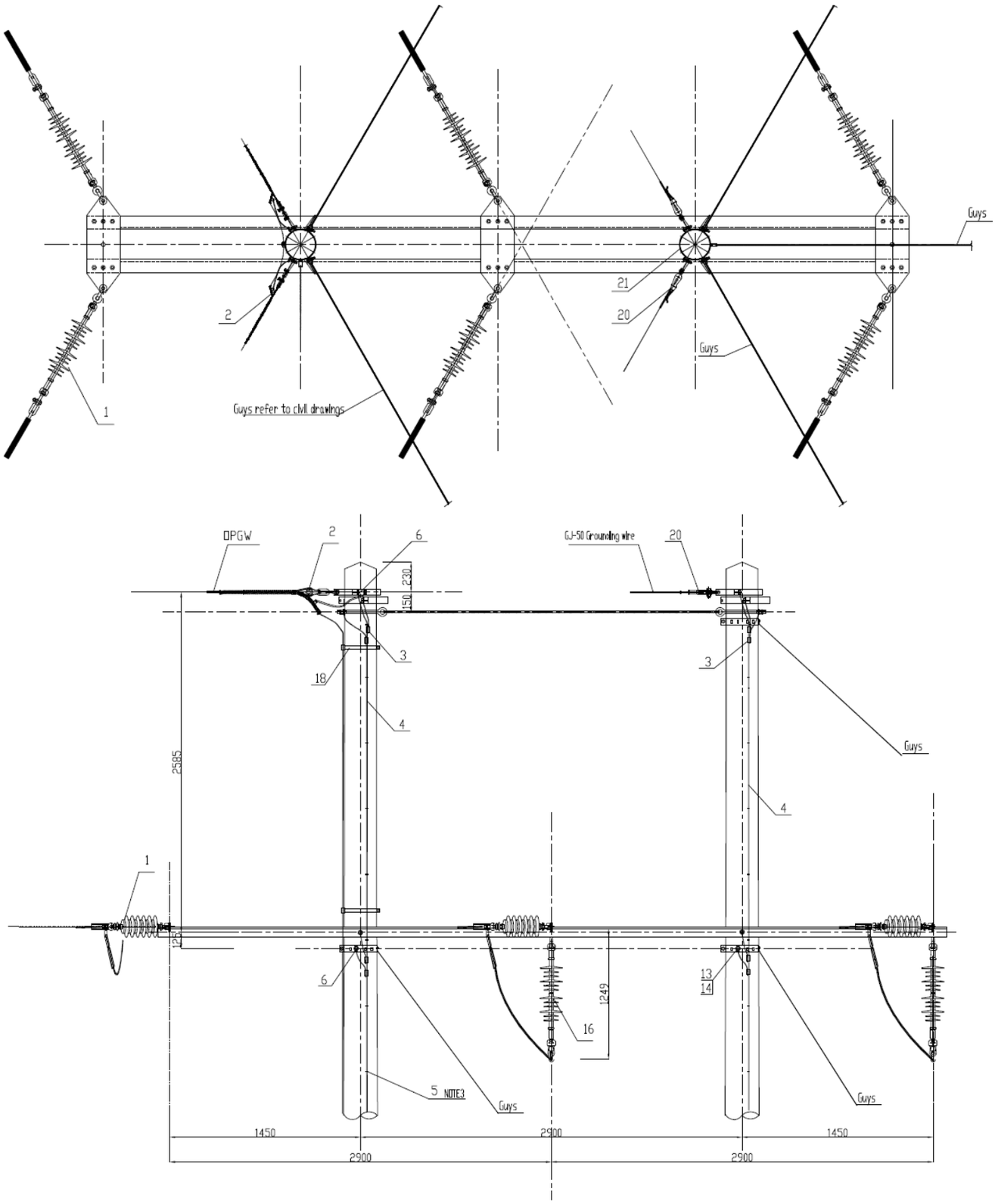


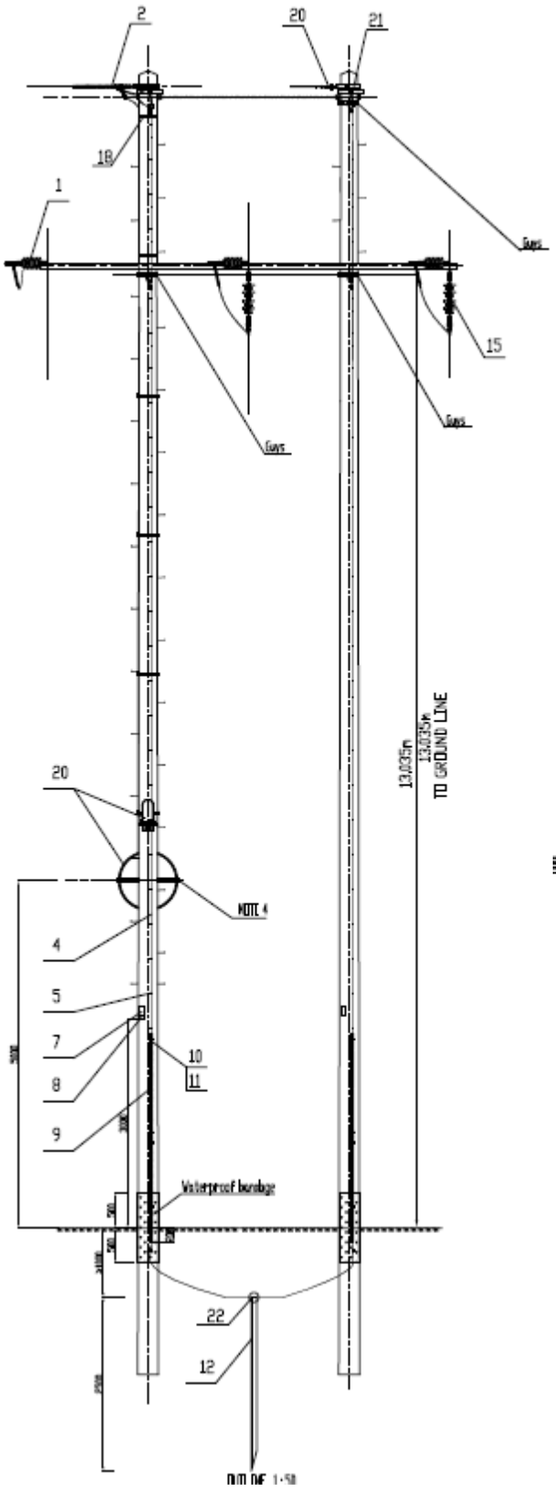

2
20
21
18
1
15
Guys
Guys
Guys
13.035m
13.035m
TO GROUND LINE
19
NOTE 4
4
5
7
8
9
10
11
Waterproof bandage
22
12


2
18
4
Guys
15
1
5
Guys

Item #	Description	Specification	Q'ty	Mass	Remarks
1	Tension Insulator assembly		6		
2	OPGW Tension Fitting		2		Hot Dipped Galvanized
3	Parallel Clamp Connector		15		Hot Dipped Galvanized
4	Grounding Wire, m		22		Hot Dipped Galvanized
5	Staples		35		Hot Dipped Galvanized
6	Terminal		13		Aluminium
7	Danger Plate		1		Fixed with wood screw and Fiberglass washer
8	Structure ID Plate		1		
9	Cable Guard		2		
10	Mounting Strap		4		Stainless Steel
11	Lag Bolt		8		
12	Grounding Rod		1		Hot Dipped Galvanized
13	Lag Bolt	D = 16, L=60	28		
14	Round Washer	D = 16	28		
15	Horizontal post insulator		3		
16	Lag Bolt	D = 16, L=120	6		
17	Round Washer	D = 16	6		
18	Down lead clamp		6		
19	OPGW Storage		1		
20	Ground wire Tension assembly		2		
21	Pole Band		2		
22	Grounding Rod Connector		1		Hot Dipped Galvanized

Typical R1-60 Structure




2
20
21
18
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Guys
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13.035m
TO GROUND LINE
20
NOTE 4
4
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Waterproof bandage
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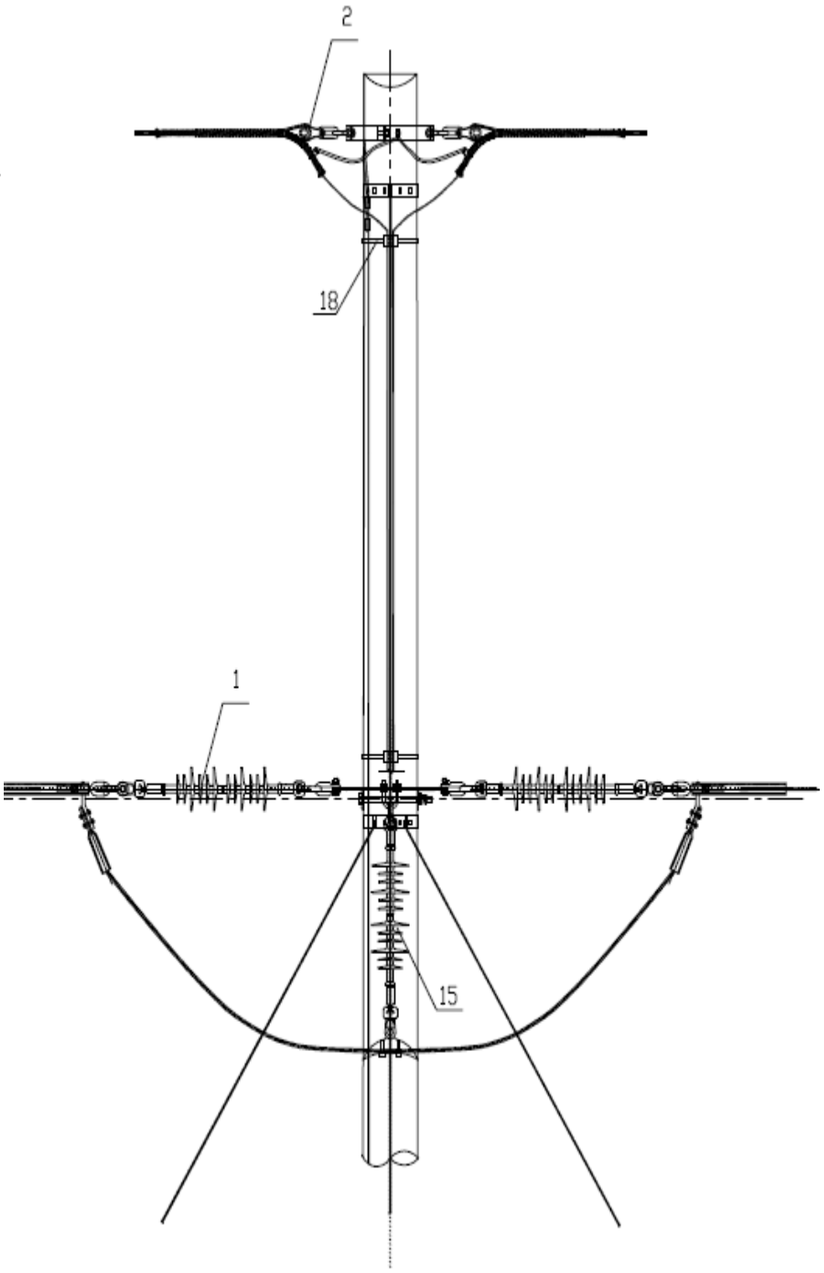

2
18
1
15

Item #	Description	Specification	Q'ty	Mass	Remarks
1	Tension Insulator assembly		6		
2	OPGW Tension Fitting		2		Hot Dipped Galvanized
3	Parallel Clamp Connector		12		Hot Dipped Galvanized
4	Grounding Wire, m		40		Hot Dipped Galvanized
5	Staples		70		Hot Dipped Galvanized
6	Terminal		10		Aluminium
7	Danger Plate		2		Fixed with wood screw and Fiberglass washer
8	Structure ID Plate		1		
9	Cable Guard		4		
10	Mounting Strap		8		Stainless Steel
11	Lag Bolt		16		
12	Grounding Rod		1		Hot Dipped Galvanized
13	Lag Bolt	D = 16, L=80	12		
14	Round Washer	D = 16	12		
15	Suspension insulator assembly		2		
18	Down lead clamp	D = 16, L=120	1		
19	OPGW Storage		1		
20	Ground wire Tension assembly		2		
21	Pole Band		2		
22	Grounding Rod Connector		1		Hot Dipped Galvanized

A "Technical Data Schedule" provided in bid document (Appendix 1 "Technical Specifications for Conductors") must be submitted for every conductor listed above.

Kindly complete the above bid requirements including warranty details, delivery schedules in the excel file spreadsheet template provided and submit two copies via email tender box as follows:

(a) a pdf file format and

(b) an excel file format.

The other bid submission requirements are listed below in line with our Evaluation criteria.

BID Delivery Schedule

IFB # GPL-PD-052-2022

Description	Named place of Destination as stated in the bid document	Earliest Delivery Date	Latest Delivery Date	Bidders offered Delivery date (to be specified by the bidder)	Bid Security required
Supply of Transmission Line Hardware & Materials	Georgetown Guyana	Immediately after signing of Contract or receipt of Purchase Order	Twelve (12) weeks after the signing of the contract or the receipt of the purchase order		2 % of Bid Price

QUALIFICATION INFORMATION

1. For individual bidders or individual members of a joint venture

1.1 Legal status of Bidder *(attach copy).*
Place of registration: _____
Principal kind of business: _____
Power of attorney for signing the Bid *(attach).*

1.2 Total volume of supplies executed for the last three (3) years in Guyana dollars or currency of bid:
_____ in 20___.
_____ in 20___.
_____ in 20___.

1.3 Supplies of a similar nature executed by the Supplier during the last two years *(not less than three (3) supplies)*

№	Name of Goods	Name of Clients, address and telephone	Contract Price

1.4 Copies of financial reports for the last three years *(balance sheets, loss and profit statements, auditors' reports, etc.). List below and attach copies.*

_____
_____
_____

a. Evidence of access to financial resources *(cash in hand, lines of credit, overdraft facility etc.). Listbelow and attach copies of supporting documents.*

_____
_____
_____

b. Evidence of compliance with NIS, IRD and TIN Certificate and VAT Registration for Vatable item/s. *(attach supporting documents).*

_____
_____
_____

c. Information on all claims, arbitration or other legal proceedings currently being examined or already settled.

_____

2.0 Any other information required by the Procuring Entity to execute the Contract _____

2.1 The Supplier certifies that he meets all the qualification criteria and requirements, in accordance with normative legal documents.

I certify the authenticity of all the above information.

_____	_____	_____
(Full name)	(Title)	(Signature and seal)

Dated on: _____ day of_____20.
(Date)

SUPPLIER'S BID

Date:_____
IFB No: _____

TO: _____
(Name and address of Procuring Entity)

Dear Sir / Madam,

Having examined the bidding documents, including the Annexes and Addenda No_____*[specify number]*, the receipt of which is hereby acknowledged, we, the undersigned, offer to supply and provide _____ *[description of goods and related services]* in accordance with the requirements of the bidding documents to the total sum of _____*[Total Amount of Bid in Words and Figures]*, confirmed by the attached Price Schedule which is a part of this Bid.

(a) We, including all subcontractors, regarding any part of the Contract, in accordance with the bidding documents, have no conflict of interests pursuant to sub clause 2 (i) of the Instructions to Bidders;

(b) We, including all subcontractors, regarding any part of the Contract, in accordance with the bidding documents, have not been declared by the [authorized State body] [National Board] on procurement to be ineligible, or are not ineligible, in accordance with the legislation of Guyana.

We undertake, if our Bid is accepted, to supply the Goods, in accordance with a delivery schedule given in the Schedule of Requirements.

If our Bid is accepted, we undertake to furnish the Performance security in the form of_____to the amount of_____, comprising_____% of the Contract Price in order to execute the Contract properly and within the time period(s) specified in the Bidding Documents.

We hereby confirm that this bid shall be valid during_____days starting from the date established for bid opening, and it shall be binding until the expiry of the indicated period.

Prior to the preparation and execution of a formal Contract, this Bid together with your written confirmation of its acceptance shall form a binding Contract on the parties.

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

Dated_____.

Duly authorized to sign the Bid _____
(*Name of Supplier*)

Supply Contract

THIS CONTRACT made the_____day of_____20__

Between_____[name of Procuring Entity] (hereinafter referred to as "the Procuring Entity"), on the one hand, and_____[name of Supplier] from_____[city and country of Supplier] (hereinafter referred to as "the Supplier"), on the other hand have come to an Agreement on the following:

The Procuring Entity has announced bid for procurement of goods and services, namely _____[brief description of goods and related services] and has accepted the Supplier's bid for the supply of indicated goods and services to the sum of _____[Contract Price in words and figures] (hereinafter referred to as "the Contract Price").

THIS CONTRACT WITNESSES AS FOLLOWS:

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

2. The following documents shall form the Contract and shall be deemed its integral part, viz.:
   (a) Procuring Entity's Notification of Award;
   (b) Bid and Price Schedule submitted by Bidder;
   (c) Schedule of Requirements;
   (d) Technical Specifications;
   (e) General Conditions of Contract;
   (f) Special Conditions of Contract;
   (g) Other documents included in the Contract documents;

3. This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.

4. In consideration of the payments to be made by the Procuring Entity to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring Entity to provide the Goods and Services, and remedy defects therein in conformity in all respects with the provisions of the Contract.

5. The Procuring Entity hereby agrees to pay the Supplier in consideration of the delivery of the Goods and Services 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 of the foresaid, the parties hereto have caused this Contract to be executed

in accordance with the legislation of Guyana the day and year first above written in the beginning of the document.

For and on behalf of the Procuring Entity:

Signed by _____

Witnesses:

1._____

2._____

For and on behalf of the Contractor:

Signed by_____

Witnesses:

1._____

2._____

BID SECURITY

(Bank Guarantee)

Whereas_____*[name of Bidder]* (hereinafter referred as "the Bidder") is ready to submit his bid dated_____*[date of bid submission]* for the supply _____*[name and/or description of goods]* (hereinafter referred as "the Bid"),

KNOW ALL PEOPLE, that WE _____ *[name of Bank]* from _____ *[name of country]*, having our registered office at the address _____ *[address of Bank]*, (hereinafter referred as "the Bank"), are bound to _____*[name of Procuring Entity]* to the sum of_____, by which payment to the indicated Procuring Entity shall be made in whole and in a timely manner; the Bank is bound on behalf of its name, its successors and authorized persons. This is to confirm that the license issued to the Bank shall provide for activity on issuance of the guarantee, and the person(s) signing that guarantee is entitled to act on behalf of the Bank, and if the approval of Board of Directors, or of General Stockholders Meeting is required, it is already received and there is no other approval required.

THE CONDITIONS of this obligation are as follows:

1. If the Bidder:
   (a) Withdraws his Bid during the period of bid validity specified by the Bidder on the Form of Bid; or
2. If the Bidder having received notice from the Procuring Entity that his bid is accepted within the period of bid's validity:
   (a) fails or rejects to sign the Contract at the request of; or
   (b) fails or rejects to furnish the performance security in accordance with the Instructions to Bidders;

We undertake to pay the Procuring Entity the above sum upon receipt of his first written request, without needing the Procuring Entity to show grounds or reasons of that request, provided that the sum requested by the Procuring Entity is due to him because of the occurrence of one or two or both conditions, specifying the condition or conditions occurred.

This guarantee shall remain in force during_____days inclusive following the expiry of the bid validity period, and any request in respect thereof should reach the Bank not later than the abovementioned date.

_____ _____ _____

(Full name of Bank's representative) *(Title)* *(Signature and seal)*

Dated on «____» day of_____20._

Bid-Securing Declaration – (*Not Applicable)*

[The Bidder shall fill in this Form if applicable pursuant to BDS.]

Date:_____
IFB No.:_____
Alternative No.:_____

To: _____

We, the undersigned, declare that:

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

2. We accept that we will automatically be suspended from being eligible for bidding in any contract with the Procuring Entity for the period of time of_____*[insert number of months or years]* starting on_____*[insert date],* if we are in breach of our obligation(s) under the bid conditions, because we:

(a) have withdrawn our Bid during the period of bid validity specified by us in the Bidding Data Sheet; or

(b) having been notified of the acceptance of our Bid by the Procuring Entity during the period of bid validity, (i) fail or refuse to execute the Contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the ITB.

3. We understand this Bid Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of a copy of your notification of the name of the successful Bidder; or (ii) twenty-eight days after the expiration of our Bid.

4. We understand that if we are a Joint Venture, the Bid Securing Declaration must be in the name of the Joint Venture that submits the bid. If the Joint Venture has not been legally constituted at the time of bidding, the Bid Securing Declaration shall be in the names of all future partners as named in the letter of intent.

Signed:_____*[insert signature of person whose name and capacity are shown]* In the

capacity of_____*[insert legal capacity of person signing the Bid Securing Declaration]*

Name:_____*[insert complete name of person signing the Bid Securing Declaration]*

Duly authorized to sign the bid for and on behalf of: *[insert complete name of Bidder]*

Dated on_____day of_____,_____*[insert date of signing]*

Manufacturer's Authorization

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

Date of Bid Submission*(day/ month/ year):*
IFB No:*[insert number of bidding process]*
Alternative No.:[*insert identification No if this is a Bid for an alternative]*

To:_____*[insert complete name of Procuring Entity]*

WHEREAS

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

We hereby extend our full guarantee and warranty in accordance with Clause 1.3 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

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

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

Title:_____*[insert title]*

Duly authorized to sign this Authorization on behalf of:_____*[insert complete name of Bidder]*

Dated on_____day of_____, 20____*[insert date of signing]*

PERFORMANCE SECURITY

(Bank Guarantee)

TO: _____

[Name of Procuring Entity]

WHEREAS_____*[name of the Supplier]* (hereinafter called "the Supplier") has undertaken, in accordance with the Contract No._____*[Contract number]* dated _____ 20__to supply_____*[description of Goods and Services]* (hereinafter called "the Contract"),

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a reputable bank to the sum specified therein as a security for compliance with the Supplier's obligations under the Contract,

AND WHEREAS we have agreed to furnish the Supplier with a security,

THEREFORE, WE hereby confirm that we are the Guarantors and are responsible to you on behalf of theSupplier, up to a total of_____*(amount of security in words and figures)* and, we undertake to pay you, on your first request notifying of the Supplier's default with the Contract, and without cavil or argument, any sum or sums within the above limits, as aforesaid, without your needing to show grounds or reasons of your request or the sum specified therein.

Any modification or addition, or amendment in the terms of Contract, which may be made by the Procuring Entity and the Supplier by Additional Agreement shall in no way release us from obligations under the Guarantee, and we waive any notice of modification, addition, or amendment. This guarantee shall be valid until full completion of the Contract Conditions by the Supplier. Also, we confirm that the license issued to the Bank shall provide for activity on issuance of a bank guarantee, and the person signing the guarantee is entitled to act on behalf of the Bank, and if the approval of Board of Directors or of General Stockholders Meeting is required, it is already received, and there is no other approval required

This guarantee shall be valid till the_____day of_____20._

_____

(Full name of Bank's representative) _____ (Title) _____ (Signature and seal)

Dated on_____day of_____20__

Address of the Bank issuing guarantee: _____

Letter of Acceptance

(Letterhead paper of Procuring Entity)

Date: _____

To:_____
(Name of Supplier)

_____
(Address of Supplier)

We hereby notify you that your bid dated the_____day of_____20…, for the supply of goods_____(*description of goods*) up to a total of_____
(Amount in figures and words)

as amended and modified in accordance with the Instructions to Bidders is hereby accepted by our agency.

Simultaneously, we send you the Form of Contract and request you, pursuant to Clause 20.1 of the Instructions to Bidders, during seven (7) days to sign and date the Form of Contract, and return it at our address. Jointly with the signed Contract, we request you to furnish the performance security, in accordance with ITB Clause 20.2.

You hereby entrusted to start supply of the Goods, in accordance with the terms and conditions of a Contract.

Name of agency _____

Full name and Title _____

Signature of Authorized Representative_____

Power of Attorney

TO:_____*[name of Procuring Entity]*

WHEREAS_____*[name of Supplier]*, who is the Supplier_____*[name and/or description of goods]*.

do hereby authorize_____*[name and address of Supplier's Representative]* to submit the Bid, and sign the Contract based on I*nvitation for Bids* for the abovementioned goods to be supplied by us, and

_____
[Full name, title, signature for and on behalf of Supplier]

Dated on «_____» day of_____20___ (Seal)
(Date)

_____

Note: The power of attorney must be drafted on a letterhead paper of the Supplier, and signed by a competent person authorized by the Supplier. The Bidder shall include this power of attorney in his Bid.

Bank Guarantee for Advance Payment

TO _____
[Name Procuring Entity*]*
[Name of Contract] _____

We,_____*[name of Bank]* in accordance with the conditions of Contract which provide for advance payment (*name and address of the Supplier*), and whereas the Supplier has undertaken to provide you a Bank guarantee for advance payment to the Procuring Entity.

THEREFORE, WE hereby affirm that we are the Guarantors, and are responsible to you on behalf of the Supplier to a total sum_____GYD (*amount of guarantee in figures and words*), and we undertake to pay you on your first request and without objection on our part, and without the preliminary address to the Supplier, any sum or sums within the above limits.

We also agree that no alteration or addition in the terms of Contract which is subject to implementation, or any other contract documents which may be made by the Purchaser and the Supplier shall release us from obligations under the guarantee, and we hereby waive any notice of such alteration, or addition. We confirm that the license issued to the Bank shall provide for activity on issuance of a bank guarantee, and the person signing the guarantee is entitled to act on behalf of the Bank, and if the approval of Board of Directors or of General Stockholders Meeting is required, then it is already received, and there is no other approval required.

This guarantee shall be valid and remain in force from the date of advance payment received by the Supplier under the Contract, and until the date when the Procuring Entity receives delivery of the Goods in the amount of Advance Payment.

The Advance Payment referred to above must be received by the Supplier in its account number _____*[insert account number]* at_____*[insert name and address of Bank]*.
This guarantee shall expire, at the latest, upon our receipt of the Goods equivalent to the amount of the Advance Payment, or on the_____*[insert date]*, whichever is later. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

_____ _____ _____
(Full name of Bank's representative) (Title) (Signature and seal)

Dated on_____day of_____20__.

Address of the Bank issued the guarantee: _____

Evaluation Criteria

The Procuring Entity's evaluation of bid will take into account, in addition to the Bid Price the following:
Phase 1 of Evaluation – Mandatory Requirements

Item #	**Mandatory Requirements** –*Completeness of Document*	**Responsive**
	Must Conform to applicable Administrative Compliances	
1	Submission of Valid Company Registration	
2	Submission Of Valid Certificate Of Compliance – GRA (only applies to suppliers whose registered business address is within Guyana)	
3	Submission of valid certificate of compliance – NIS (only applies to suppliers whose registered business address is within Guyana)	
4	Copies of financial reports for the last three years	
5	Validity Of Bid – Including Documents that are properly signed	
7	Manufacture Authorization	
8	Bids Should Be valid for Ninety (90) Days	
9	Record of Past Experience for Supplies of similar nature	
10	Price and Delivery Schedule	
11	Technical Specification – Compliance, completeness, legible, unambiguous	
12	Country of Origin	

Note: Bids which do not comply with the mandatory requirements will <u>NOT</u> be considered for detailed Evaluation.

Bid that passes the mandatory requirements will be evaluated in detailed with points awarded as follows. The Bid that attracts the most points will be recommended.

Lack of submission of supplier's technical specification confirming to GPL's technical requirements shall be construed as non-compliance.

Phase 2 Detailed Evaluation Criteria

Category	**Criteria**	**Max. Points**	**Evaluation Formula**
Delivery Time	Twelve (12) or less weeks	20	Least Bid Delivery Time/Bid Delivery Time * 20
Technical Specifications	Technical Specifications and evidence of the performance reliability of these items, must be provided with the Bid	40	Bid Technical Specifications must match Technical Specifications in the tender document
Warranty and Guarantee	Warranty Period	10	The Bid that offers the maximum warranty
Cost	The Bid that offers the lowest cost shall be considered as the best option.	30	Lowest bid price / bid price * 30
Total	Accumulated	100	

NOTES ON EVALUATION

(a) The evaluation will be done per lot.

(b) The Contract would be awarded to the Bidder whose bid is determined to be substantially technically responsive to the Bid Document per lot or multiple lots or all lots and who has offered the lowest evaluated Bid Price (bid with highest points awarded for each respective lot)

(c) A penalty of immediate rejection of a bid or termination of contract will be applied upon discovery of misrepresentation of information.

(d) Bids for partial lot (s) will not be considered

A penalty of 0.5% of the value of the order (or any portion thereof) for every completed calendar day that the products exceed the promised delivery period, to a maximum of 15% of the value of the order (or any portion thereof).

A penalty of immediate rejection of a bid or termination of contract will be applied upon discovery of misrepresentation of information

Law of Guyana: Procurement Act 2003

Section 39 – Subsection 6 (b)

(b) The procuring entity may grant a margin of preference not exceeding ten percent to tenders submitted by domestic contractors or for the benefit of tenders for domestically produced goods, provided that such preference is specified in the tender documents. If the lowest evaluated tender was submitted by a foreign tenderer, the evaluating committee will apply the margin of preference to the prices submitted by all foreign tenderers, for evaluation purpose. If, after applying the margin of preference, the lowest evaluated tender was submitted by a domestic tenderer, such tenderer shall be awarded the contract. Otherwise, the foreign tenderer who has submitted the lowest evaluated tender shall be awarded the contract.

Appendix I

Technical Specification for Line Hardware

1.0 Glossary

AWG	*American wire gauge*
GPL	*Guyana Power and Light Incorporated*

2.0 Scope

This specification sets out the technical requirements for line hardware on transmission networks. Rated up to 69, 000 kV.

3.0 Environmental Conditions

3.1 The line hardware materials will be exposed to the following environmental conditions:

a. Maximum altitude above mean sea level less than 1,000 m;
b. Maximum ambient air temperature 40^0C;
c. Maximum daily average ambient air temperature 30^0C;
d. Minimum ambient temperature15^0C; and
e. Maximum relative humidity 100%.

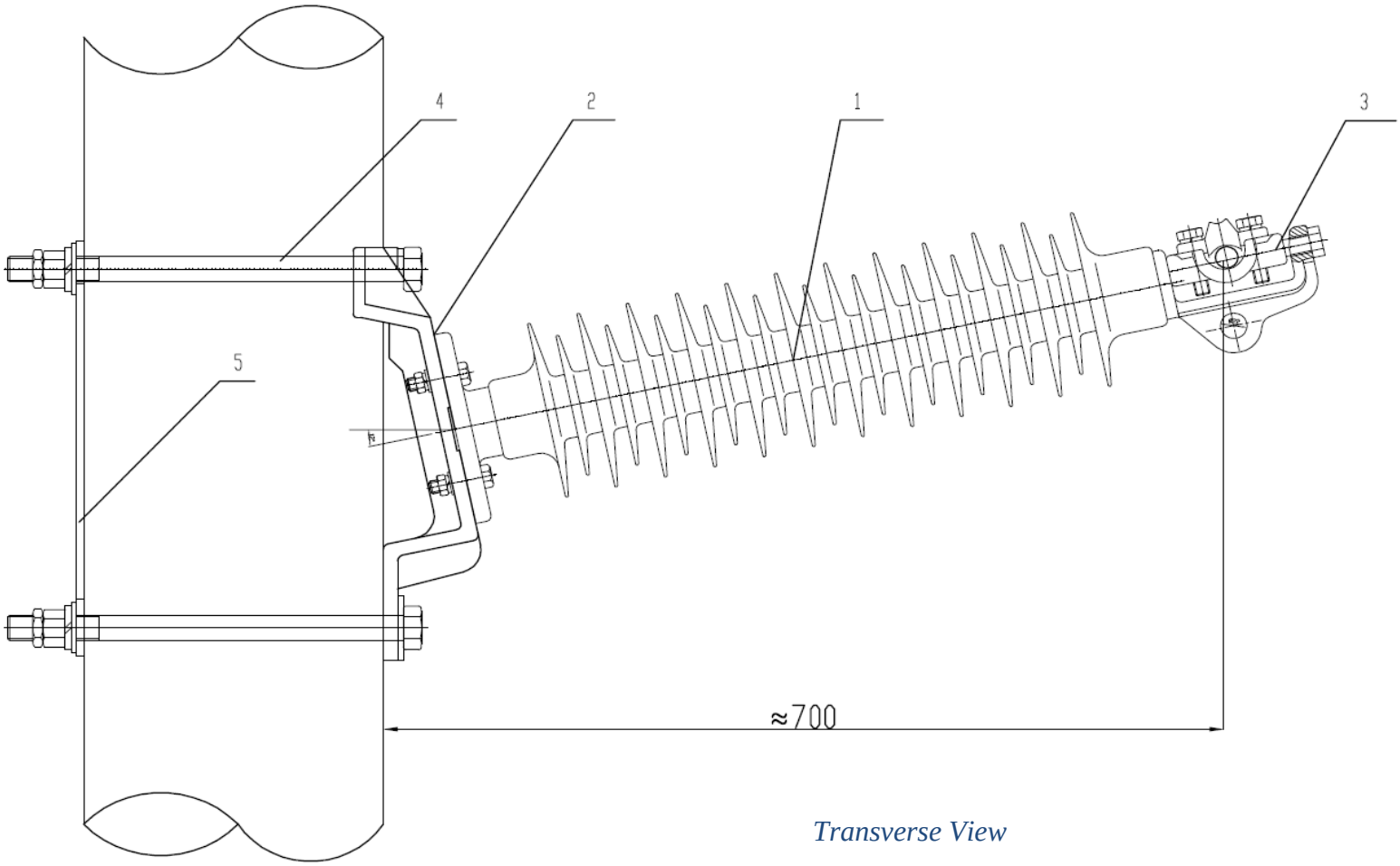
3.2 The line hardware materials shall be designed and protected for use in exposed, heavily polluted, and salty, corrosive, and humid tropical coastal atmospheric conditions.

4.0 Requirements

4.1 The requirements for the line hardware materials will be listed in the following order as shown in the table below

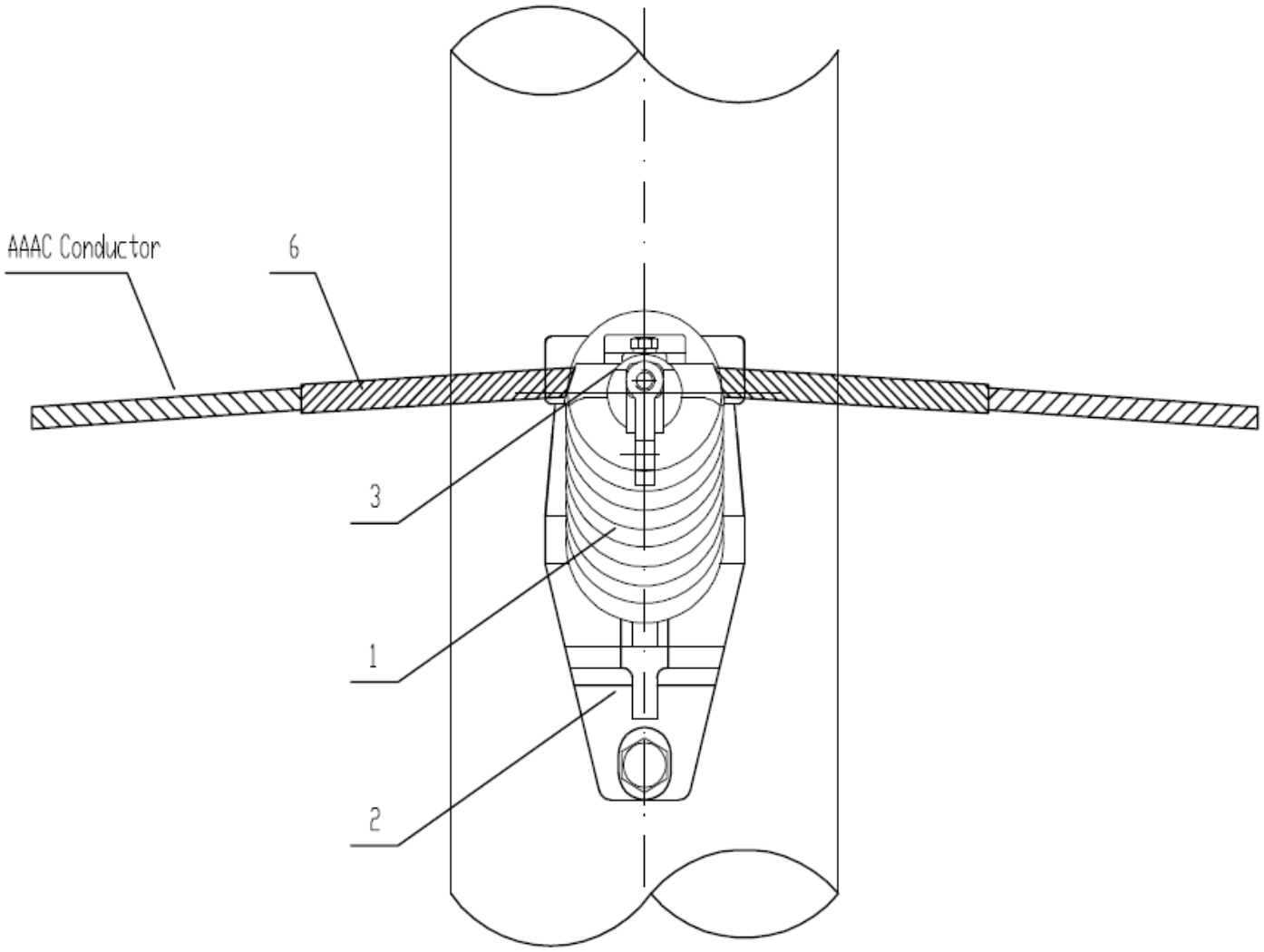
Item	Description

Horizontal Post Insulator



Transverse View

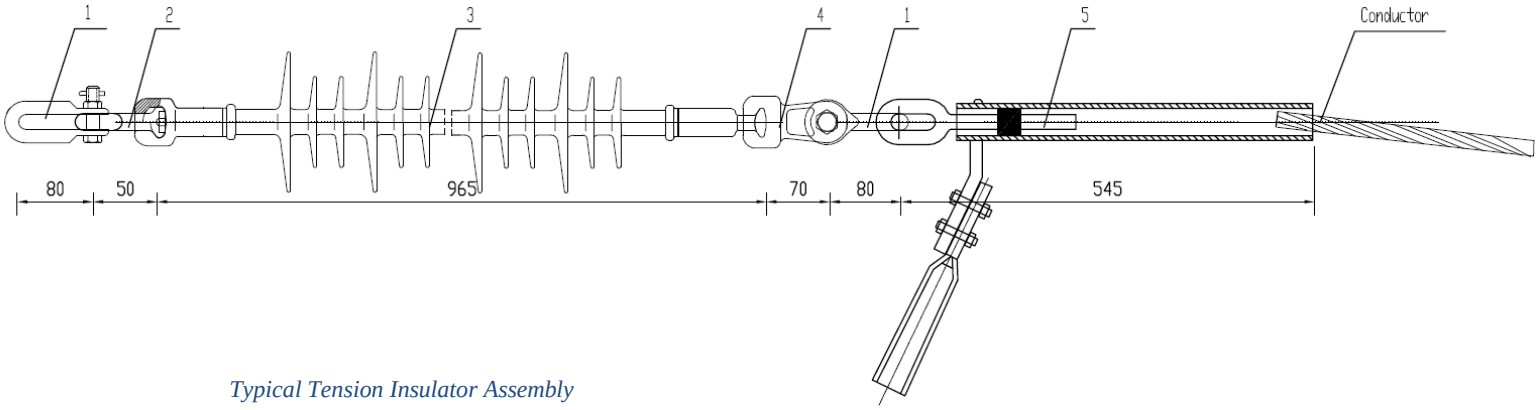
Cantilever Bending Strength (Max)	22 000 N
Cantilever Bending Strength (Routine)	11 000 N
Base Fitting -	Rigid Gain Base
Live End Fitting -	Tear Drop Blade
Material	Silicone Rubber
Arc Distance (Dry)	600 mm
Creep and Leakage Distance	1500mm
Critical Impulse Flashover (CIFO) - Negative	470 kV
Critical Impulse Flashover (CIFO) - Positive	360 kV
Flashover Voltage - 60 Hz Dry	230 kV
Flashover Voltage - 60 Hz Wet	180 kV
Voltage Rating	69 kV
Withstand Voltage - Lightning Impulse (Positive)	510 kV



Longitudinal View

Item #	Description	Specification	Q'ty	Mass (kg)	Remarks
1	Horizontal Post Insulator		1	10	
2	Insulator Base		1	8	Hot dipped galvanized steel
3	Conductor clamp	For AAAC Conductor	1	0.6	Aluminium alloy
4	Machine Bolt	l - 350mm, ϕ - 22mm	2	1.8	With nut and two washers
5	Plate	360x55mm, δ = 6		1	Stainless Steel
6	Preformed wraps for AAAC Conductor		1	1.4	Hot dipped galvanized steel

Tension Insulator



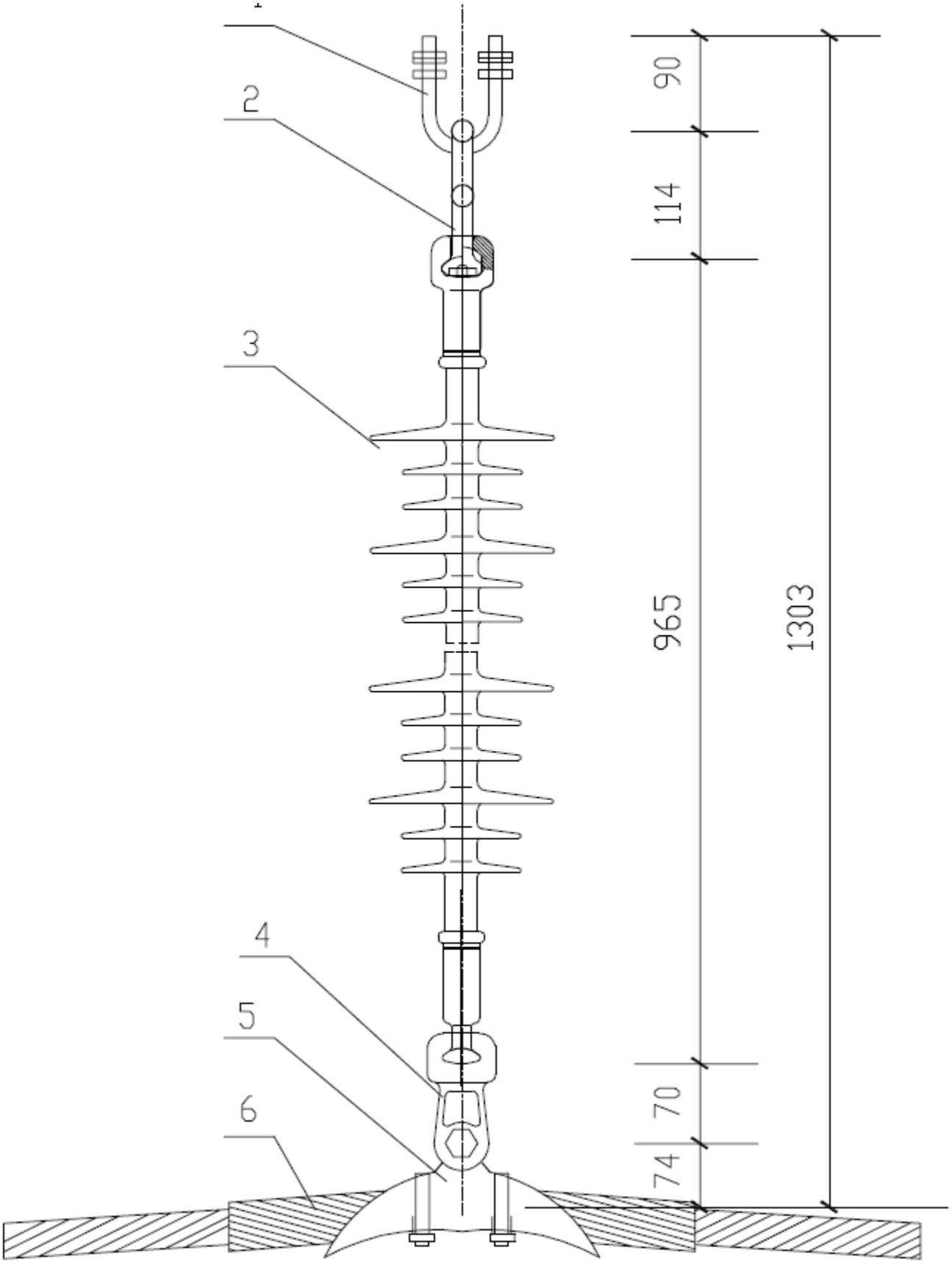
Typical Tension Insulator Assembly

Item #	Description	Specification	Q'ty	Mass (kg)	Remarks
1	Shackle		2	0.6	Galvanized Forged Steel
2	Ball eye		1	0.3	Galvanized Forged Steel
3	Tension Insulator		1	4.0	Composite Insulator
4	Socket eyes		1	0.8	Galvanized Forged Steel
5	Compression Dead End		1	4.2	Aluminium Tube

Application	Suspension
Base Fitting	Socket
Live End Fitting	Ball
Material	ESP
Material (End Fitting)	Socket - Duct. Iron / Ball - Steel
Material - Pin (Cotter)	Stainless Steel
Tensile Strength	66 kN
Arc Distance - Dry	750mm
Creep and Leakage Distance	1800mm
Critical Impulse Flashover (CIFO) - Negative	510
Critical Impulse Flashover (CIFO) - Positive	500
Flashover Voltage - 60 Hz Dry	315
Flashover Voltage - 60 Hz Wet	245
Voltage - Line	69 kV

Suspension Insulator

Typical Suspension Insulator Assembly



Item #	Description	Specification	Q'ty	Mass (kg)	Remarks
1	U-Bolt		1	1.4	Galvanized Forged Steel
2	Ball eye		1	8	Galvanized Forged Steel
3	Suspension Insulator	For AAAC Conductor	1	4.0	Composite Insulator
4	Socket eyes	l - 350mm, ϕ - 22mm	1	0.8	Galvanized Forged Steel
5	Suspension clamp	360x55mm, δ = 6		1	Aluminium alloy

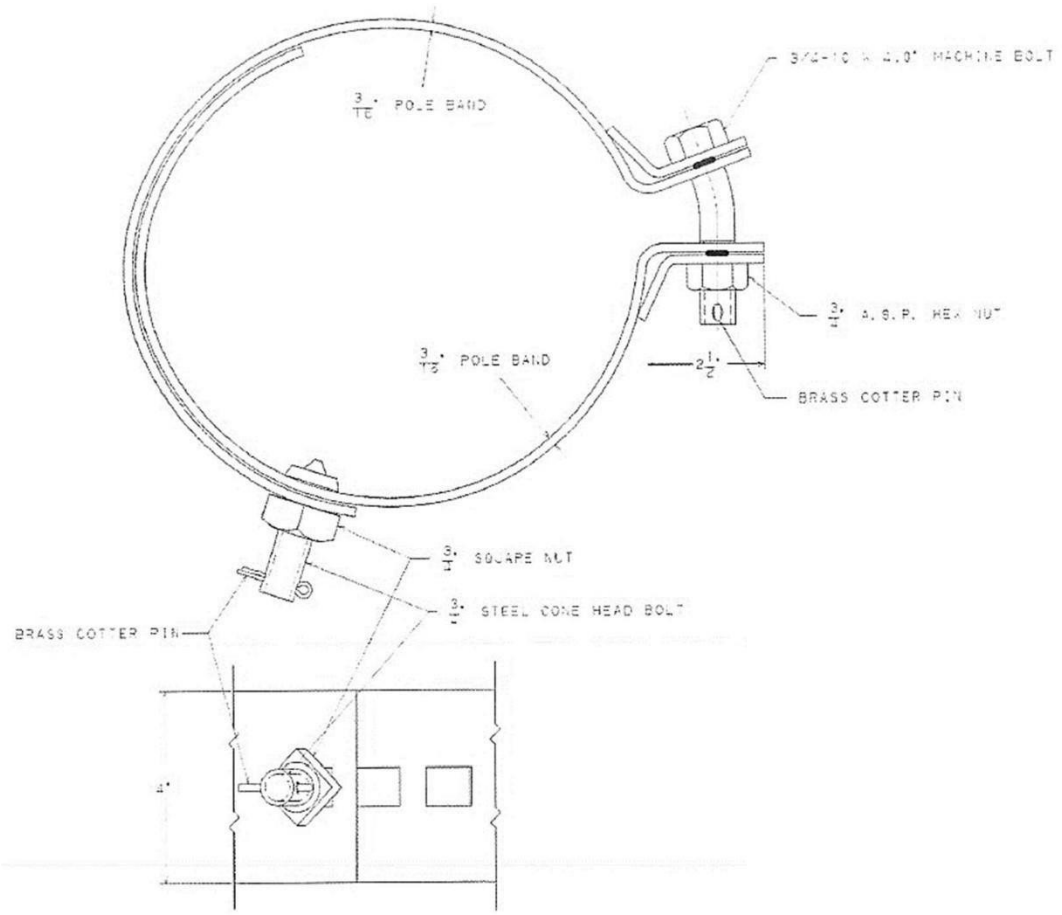
Application	Suspension
Base Fitting	Socket
Live End Fitting	Ball
Material	ESP
Material (End Fitting)	Socket - Duct. Iron / Ball - Steel
Material - Pin (Cotter)	Stainless Steel
Tensile Strength	66 kN
Arc Distance - Dry	750mm
Creep and Leakage Distance	1800mm
Critical Impulse Flashover (CIFO) - Negative	510
Critical Impulse Flashover (CIFO) - Positive	500
Flashover Voltage - 60 Hz Dry	315
Flashover Voltage - 60 Hz Wet	245
Voltage - Line	69 kV

Vertical Post Insulator

Cantilever Bending Strength	5 kN
Material	Silicone
Material - End Fitting	Galvanized Steel
Tensile Strength	50 000 N
Torsional Strength	1500 Nm
Compression strength	100 kN
BIL	350 kV
Creep and Leakage Distance	2200 mm
Voltage - Line	69 kV
Withstand Voltage - 60 Hz Wet	155
Flashover Voltage - 60 Hz Dry	315
Critical Impulse Flashover (CIFO) - Negative	510
Critical Impulse Flashover (CIFO) - Positive	500

Item #	Description	Specification	Q'ty	Mass (kg)	Remarks
1					
2					
3					
4					
5					

Typical pole band



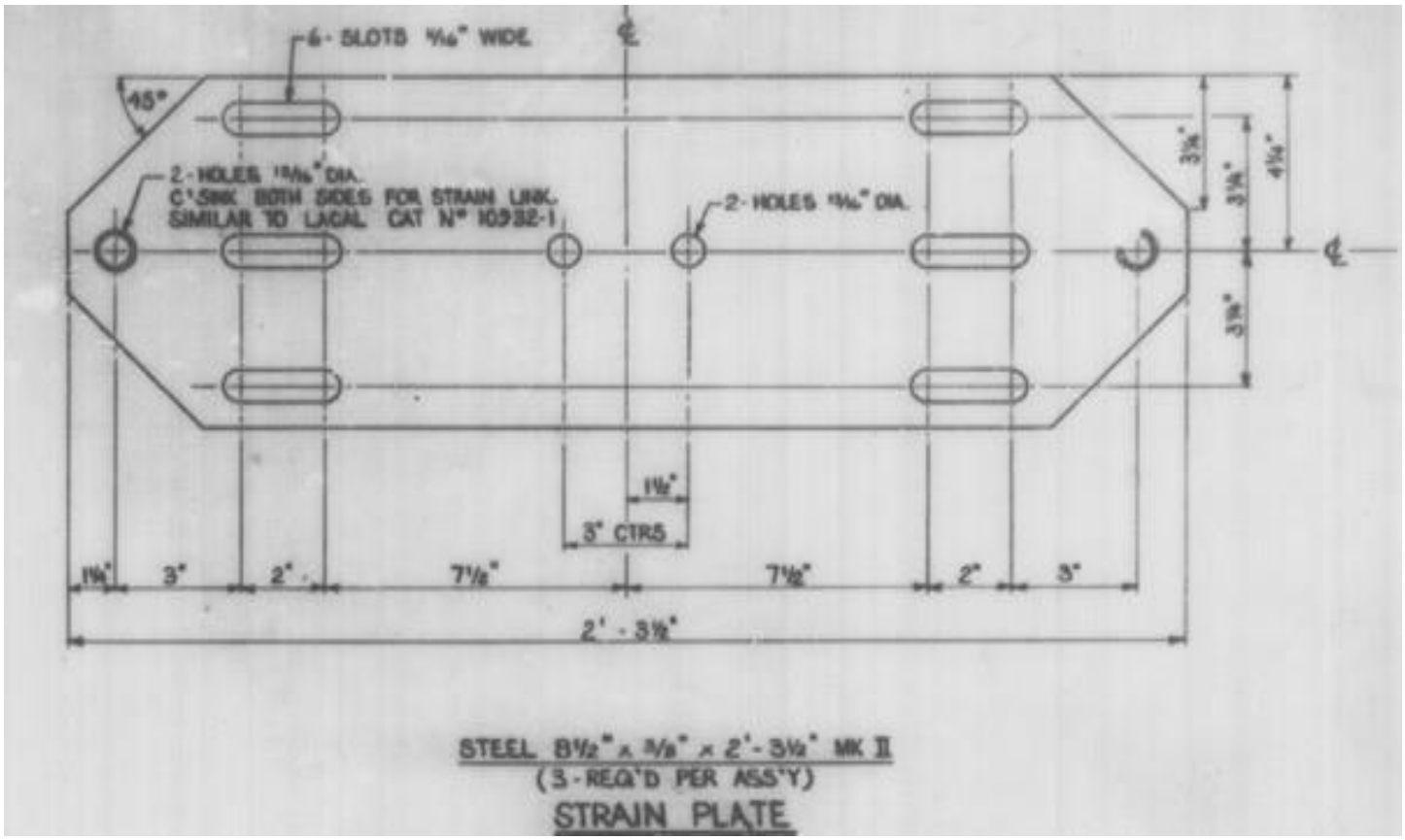
General

Coating Galvanized

Steel Adjustable Pole Band must:

- Fit pole diameters from 200 to 350mm poles
- Is 10 x 100mm flat steel bands,
- Assembled with one 20 x 100mm curved bolt,
- Cone head bolt, 20 x 60mm

Typical Strain plate



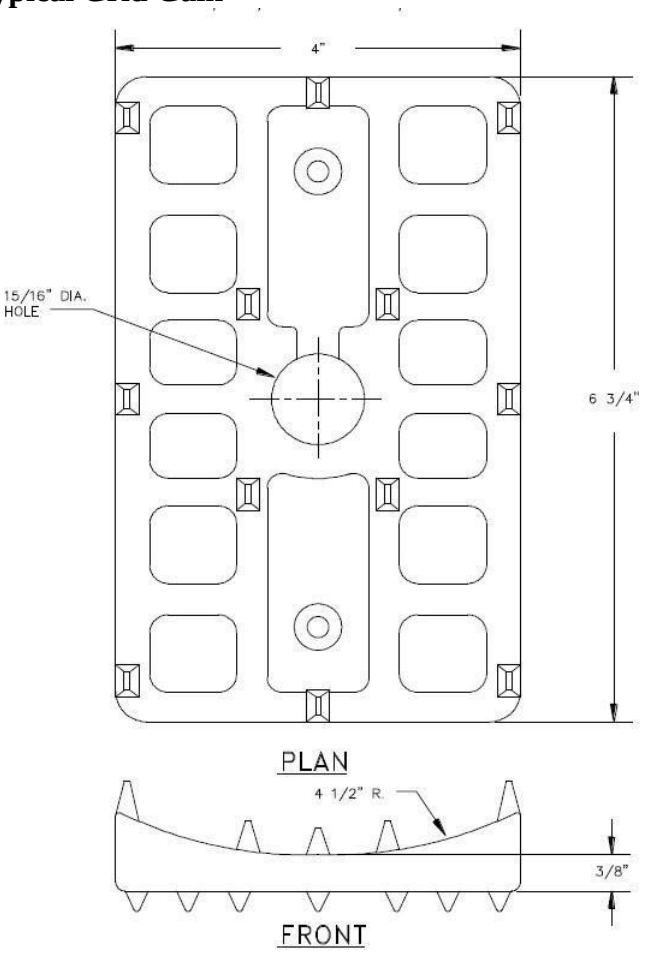
Material: Steel

Coating: Dip Galvanized

Thickness: 10mm.

Circle Diameter: 7/8 in.

Typical Grid Gain



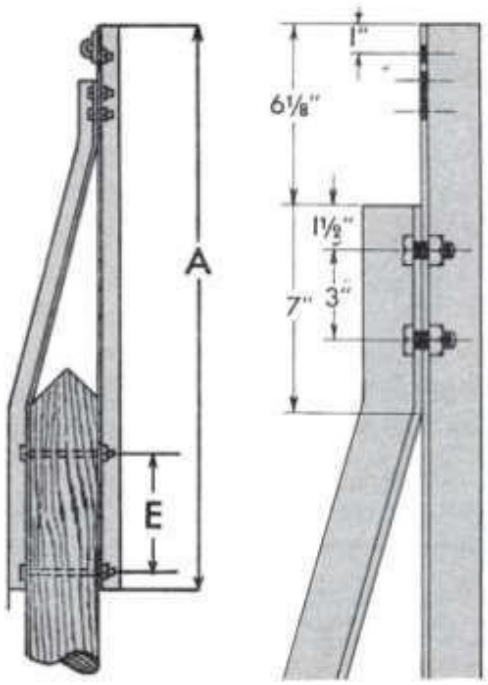
General

Coating: Galvanized
Applicable Standards: ASTM A153, ASTM B695

Dimensions

Thickness:

Ground wire bayonet, Corner



Application

Ground wire bayonets are used for supporting overhead ground wires on our Transmission (69kV) Network.

Dimensions:

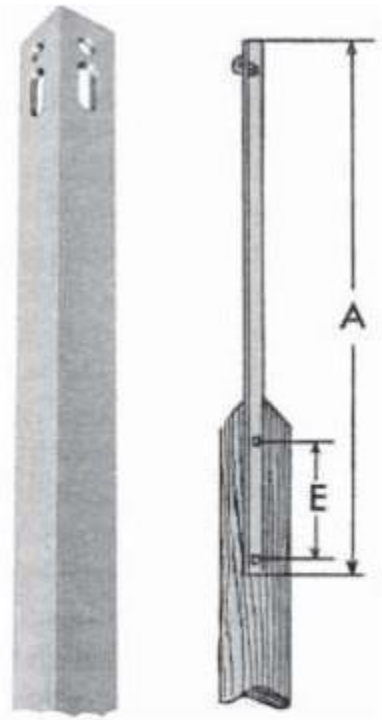
"A" – 170mm, "E" – 40mm
Angle Size – 50 x 50 x 6mm

Material

Steel hot dip galvanized

- Corner bayonets consist of two angle sections and two 13mm bolts for fastening them together.
- One angle is offset to fit 200mm diameter poles; however, the legs shall be spread apartor pushed together to fit other diameters.
- The mounting bolts in the bent legs shall be slotted to allow for any pole boring inaccuracy.

Ground wire bayonet, straight



Application

Ground wire bayonets are used for supporting overhead ground wires on our Transmission (69kV) Network.

Dimensions

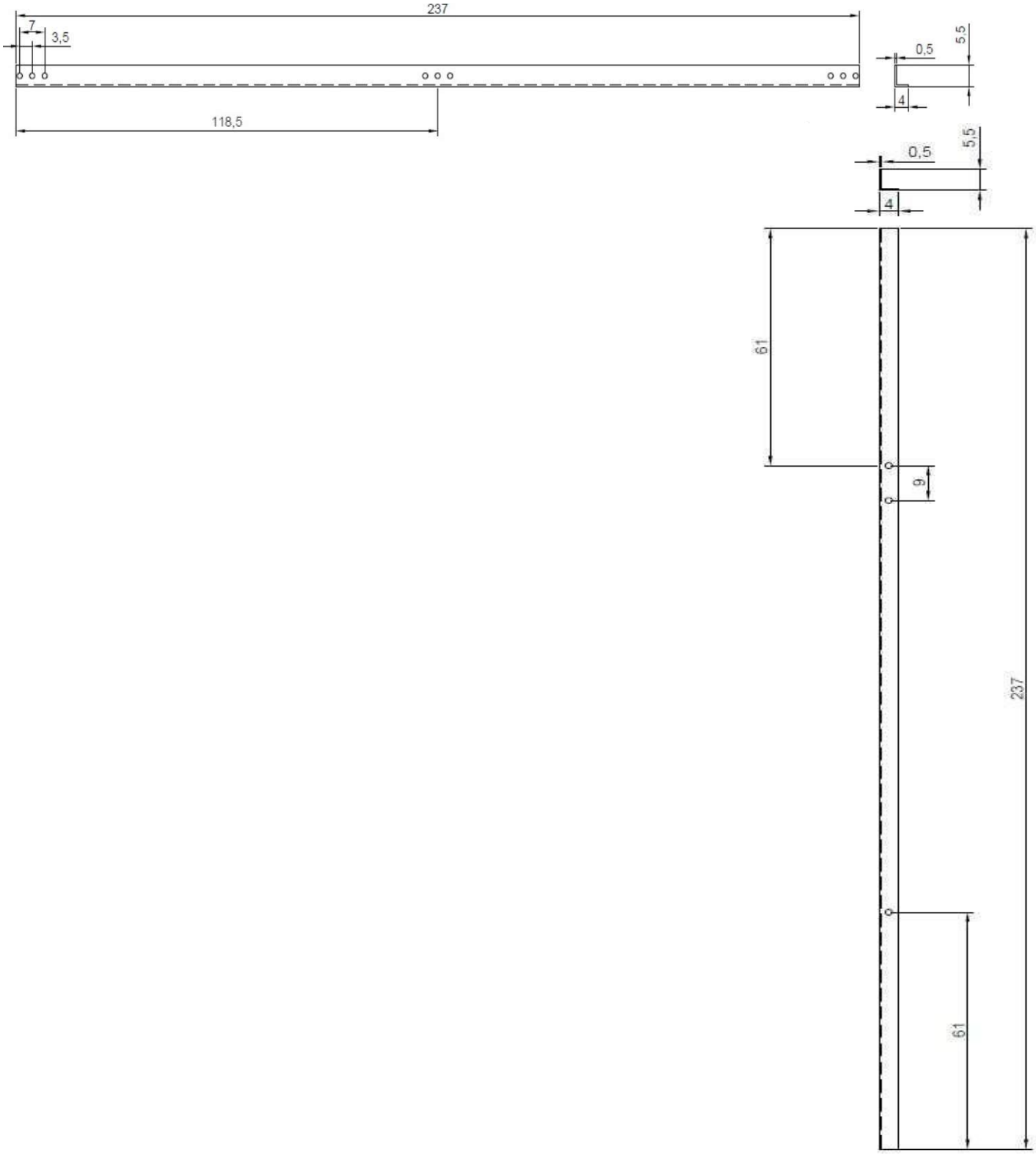
"A" – 1200mm, "E" – 300mm
Angle Size – 60 x 60 x 6mm

Material

Steel hot dip galvanized

- Straight type bayonet consists of one angle with clamp holes punched in both legs to permit mounting the bayonet to either the face or the side of the pole.
- Straight bayonets shall have a 11mm diameter hole at the bottom for a ground lug if required

Galvanized steel arm



5.0 Guarantee

Vendor shall guarantee all line hardware materials against defects arising out of faulty design, workmanship, or defective material for a period of one (1) year from the date of installation or two (2) years from the date of delivery, unless and otherwise specified in tender documents.

6.0 Drawings

The bidder shall furnish catalogues, literature, operation, and detailed dimensional drawings of complete bid for ease of evaluation. **Additionally, if a bidder has similar features or dimension like that mention within this specification, he/she is required to mention all literature, detail dimensional drawing and materials composition**. This option will allow the evaluators to ascertain its capabilities and comment on its operation.

7.0 Quality Assurance

The manufacturer shall be certified in accordance with ISO 9001. The supplier must provide a copy of a valid certificate along with his quote. Relevant manuals shall be presented upon request.

Technical Specification for Insulators

1.0 Glossary

GPL *Guyana Power and Light Incorporated*

2.0 Scope

This specification sets out the technical requirements for Insulators to be used on distribution(rated 15kV) and transmission (rated 110kV) network, by GPL.

3.0 Environmental Conditions

3.1 The insulators to be supplied against this specification shall be satisfactory suitable for s continuous operation under the followingtropical coastal conditions.

3.1.1 Maximum altitude above mean sea level less than 1,000m;

3.1.2 Maximum ambient air temperature 40^0C;

3.1.3 Maximum daily average ambient air temperature 30^0C;

3.1.4 Minimum ambient temperature15^0C; and

3.1.5 Maximum relative humidity 100%.

4.0 The insulators shall be designed and protected for use in exposed, heavily polluted, andsalty, corrosive and humid tropical coastal atmospheric conditions.

5.0 Intentionally Blank

6.0 Submission

6.1 Drawings showing the critical dimensions of the insulators offered shall be submitted with thetender

6.2 Type Test copies for all types of insulators shall be submitted with the tender, and shallinclude, the results of the following tests:

a. Dry flashover test
b. Wet flashover test
c. Impulse frequency test
d. Temperature cycle test
e. Mechanical strength test
f. Electro-mechanical test (Suspension insulators only)
g. High Voltage Test (Pin insulators)

h. Proof Load Test

i. Corrosion Test

6.3 The bidder shall furnish catalogues, literature, operation, and detailed dimensional drawings of complete bid for ease of evaluation**. Additionally, if a bidder has similar features or dimension as that mention within this specification, he/she is required to mention all literature, detail dimensional drawing and materials composition**. This option will allow the technical evaluators to ascertain its capabilities and comment on its operation.

6.4 Manufacturer recommended insulator washing procedures, shall be submitted with thetender.

7.0 Quality Assurance

The manufacturer shall be certified in accordance with ISO 9001. The supplier must provide acopy of a valid certificate along with his quote. Relevant manuals shall be presented upon request.

8.0 Markings

Markings shall be provided, in English, on the insulator in accordance with ANSI/IEEE Standards, showing at minimum the following information:

a. Manufacturer's name or trade mark

b. Rated voltage;

c. Insulator Material

9 Guarantee

Vendor shall guarantee all insulators against defects arising out of faulty design, workmanship, or defective material for a period of one (1) year from the date of installation or two (2)years from the date of delivery, unless and otherwise specified in tender documents.

- Partial Discharge Voltage Test
- Accelerated ageing test
- Power frequency voltage versus time characteristics
- Short Circuit Test/Mode of Failure Test

10.0 Routine Tests

The manufacturer shall carry out the following routine tests on each single arrester in accordancewith IEC 60099-4/ 2004-05 Standard.

- AC Reference Voltage Test (final arrester)
- Partial Discharge Test (final arrester including hardware/accessories)
- Residual Voltage Test (final arrester or metal-oxide resistors)

The manufacturer shall provide a routine test report including all relevant details with respect to thetest limits. On request, the manufacturer shall also provide a routine test protocol including all measuring results. ***Sample tests are not acceptable.***

11.0 Acceptance Tests

The acceptance tests shall be carried out as per IEC: 60099-4/ 2004-05 standard.

- Power frequency reference voltage test
- Lightning impulse residual voltage test
- Internal partial discharge test
- Visual examination & Dimensional verification

12.0 Marking

Each arrester shall be provided with a nameplate, bearing the following information, as a minimum,in English language:

- Arrester Type
- IEC standard
- Continuous Operating Voltage Uc
- Rate Voltage Ur
- Nominal Discharge Current
- Rated Short Circuit Current
- Manufacturers name or trademark
- Month & Year of manufacture
- Date of supply with period of guarantee

13.0 Drawings

The tenderer shall furnish catalogues, literature, and detailed dimensional drawings of completearrester with disconnect or showing clearances, polymeric housing details & nameplate details.

14.0 Quality Assurance

The manufacturer shall be certified in accordance with ISO 9001. The supplier has to provide a copy of a valid certificate along with his quote. Relevant manuals shall be presented upon request.

15.0 Packing and Shipment

Arresters shall be securely packed, complete with all accessories, in strong non-returnable boxes,in such a manner as to prevent damage during shipment.

Technical Specifications for Conductors

Galvanised Guy-Wire

1.0 Glossary

AWG	*American wire gauge*
GPL	*Guyana Power and Light Incorporated*
Kcmil	*One thousand circular mil, where 1 kcmil = 050667mm^2*
Lay ratio	*Ratio of the aerial length of a complete turn of the helix formed by an individual wire in a stranded conductor to the external diameter of the helix*

2.0 Scope

This specification covers galvanized guy-wire used by GPL Inc.

3.0 Standards

Guy-wire must meet or exceed all applicable requirements of the latest editions of the followingstandards:

- ASTM A855: Standard Specification for Zinc 5% Aluminum Mischmetal Alloy-CoatedSteel Wire Strand.

4.0 Environmental Conditions

4.1 The guy wire to be supplied against this specification shall be suitable for satisfactorycontinuous operation under the following tropical coastal conditions.

a. Maximum ambient temperature 50 ^{0}C
b. Minimum ambient temperature 15 ^{0}C
c. Relative Humidity 100%
d. Maximum Annual Rainfall 1010mm
e. Maximum altitude above mean sea level 1000m

4.2 The conductor shall be designed and protected for use in exposed, heavily polluted and salty,corrosive and humid tropical coastal atmospheric conditions.

5.0 Wire Sizes

5.1 The respective sizes (diameter) for guy-wire utilized by GPL Inc., are as shown below.

a. 5/16 inch
b. 7/16 inch

a.2 A tolerance of +1% of the nominal diameter of aluminum wires shall be permitted

5.3 No negative tolerance shall be permitted on the nominal diameter aluminum wire used in themanufacture of galvanize guy wire.

6.0 Properties of Wires

The proceeding table outlines the required properties of each guy-wire, utilized by GPL Inc.

Strand Diameter (inches)	Wire Per Strand	Approx. overall dia. (inches)	Approx. weight/1000ft	Minimum Breaking Strength (lbs.)	Min. weight of Coating CLASS A	Min. weight of Coating CLASS B	Min. weight of Coating CLASS C
5/16	7	0.104	205	6000	0.80	1.6	2.4
7/16	7	0.145	399	18000	0.90	1.8	2.7

7.0 Construction

7.1 The wires used in the construction of a stranded conductor shall before stranding satisfy all therelevant requirements of this standard. The lay ratio of the different layers shall be within the limit shown in the table below:

No. of Wires in Conductors	7-wire layer	
	Min.	Max.
7	12	16

7.2 The lay direction shall be left hand lay.

8.0 Commissioning

8.1 The wire shall be smooth and free from all imperfections such as spills, splits, slag inclusion,dia. marks scratches, fittings, blow holes, projections, looseness, overlapping of strands, chipping of aluminum layers etc. and all such other defects which may hamper the mechanical and electrical properties of the conductor. Special care should be taken to keep awaydirt, grit etc. during stranding.

8.2 There shall be no joint in any wire of a stranded conductor containing seven wires, exceptthose made in the base rod or wire before final drawing.

8.3 Certified test reports of Routine/Acceptance tests, are required for all conductors supplied toGuyana Power and Light Inc., and shall be supplied upon delivery, and shall include:

a. Galvanising Test (Uniformity of Galvanising and mass of coating)
b. Tensile strength
c. Measurement of overall diameter

9.0 Marking

The following information shall be marked on each package in indelible ink:

a. Manufacturer's name
b. Country of Origin
c. Trademark, if any
d. Drum identification number
e. Size of guy-wire
f. Length of guy-wire
g. Gross mass of the package
h. Net mass of guy-wire
i. Position of the guy-wire end
j. Consignee name and address

10.0 Shipping and Storage

The conductors shall be wound in reels or drums conforming to the latest versions of ASTM or IEEEstandards and shipped in an upright position.

Bare Overhead AAAC Conductors

1.0 Glossary

AAAC	*All Aluminum Alloy Conductor*
AWG	*American wire gauge*
Bare	*Uninsulated conductor*
GPL	*Guyana Power and Light Incorporated*
Kcmil	*One thousand circular mil, where 1 kcmil = 050667mm^2*

2.0 Scope

This specification provides details for All Aluminum Alloy Conductor (AAAC) Bare Overhead conductor, for the use on overhead lines operated by Guyana Power and Light Incorporated.

3.0 Standards

Bare conductor must meet or exceed all applicable requirements of the latest editions of the followingstandards:

- ASTM B-398: Standard Specification for Aluminum Alloy 6201-T81 and 6201-T83 Wire forElectrical Purposes
- ASTM B-399: Standard Specification for Concentric-Lay-Stranded Aluminum-Alloy 6201-T81 Conductors
- NEMA WC-26: Binational Wire and Cable Packaging Standards
- BS EN 50183: Conductors for Overhead Lines Aluminum-magnesium-silicon alloy wires.

4.0 Environmental Conditions

4.1 The conductor(s) to be supplied against this specification shall be suitable for satisfactory continuous operation under the following tropical coastal conditions.

a.	Maximum ambient temperature	50 ^{0}C
b.	Minimum ambient temperature	15 ^{0}C
c.	Relative Humidity	100%
d.	Maximum Annual Rainfall	1010mm
e.	Maximum altitude above mean sea level	1000m

4.2 The conductor shall be designed and protected for use in exposed, heavily polluted and salty, corrosive and humid tropical coastal atmospheric conditions.

5.0 Conductor Sizes

5.1 The conductor size for the bare overhead AAAC conductor being used by GPL is 394.5 kcmil, with a code name Canton.

5.2 A tolerance of +1% of the nominal diameter of aluminum wires shall be permitted

5.3 No negative tolerance shall be permitted on the nominal diameter aluminum wire used in the manufacture of AAA conductor.

6.0 Properties of Wires

The proceeding table outlines the required properties of each bare AAAC conductor, utilized by Guyana Power and Light Inc.

Size (AWG or kcmil)	**Stranding**	**Approx. Indiv. Dia**	**Approx. overall dia. (inch)**	**Approx. mass (lbs./1000')**	**Calculated resistance at 20^0C (ohm/1000')**	**Rated Strength (lbs.)**	**Current rating (Amps)**
394.5	19	0.1441	0.721	367.9	0.061	13300	532

7.0 Construction

7.1 For conductors containing more than seven wires, joints in individual wires are permitted in any layer except the outermost layer (in addition to those made in the brass rod or wire before final drawing) but no two such joints shall be less than 15 m apart in the complete stranded conductor.

7.2 Any joint shall be made by resistance or cold pressure butt welding. They are not required to fulfil the mechanical requirement of unjointed wires.

7.3 Joints made by resistance butt welding shall, after welding, be annealed over a distance of at least 200 m on each side of the joint.

7.4 In all constructions, the successive layers shall have opposite directions of lay, the outer most layer being right-handed. The wires in each layer shall be evenly and closely stranded.

8.0 Commissioning

8.1 Certified test reports of Routine/Acceptance tests, are required for all conductors supplied to Guyana Power and Light Inc., and shall be supplied upon delivery, and shall include:

a. Conductor Resistance Test
b. Measurement of lay ratio /direction of lay
c. Wrapping Test
d. Tensile strength
e. Measurement of overall diameter
f. Measurement of individual wires

8.2 Conductors shall be supplied on non-returnable wooden reel/drums. All reels shall be designed to NEMA WC-26 standard or equivalent and are to be constructed to withstand the rigors of overseas shipping.

8.3 For wooden drums, preventative treatment, of a quality and amount which is not harmful to theconductor, shall be applied to the entire drum.

8.4 The wire shall be smooth and free from all imperfections such as spills, splits, slag (silicon dioxide), marks scratches, fittings, blow holes, projections, looseness, overlapping of strands, chipping of aluminum layers etc. and all such other defects which may hamper the mechanical and electrical properties of the conductor. Special care should be taken to keep away dirt, grit etc. during stranding.

9.0 Marking

The following information shall be marked on each package in indelible ink:

a. Manufacturer's name
b. Country of Origin
c. Trademark, if any
d. Drum identification number
e. Code name and size of conductor
f. Length of conductors
g. Gross mass of the package
h. Net mass of conductor
i. Position of the conductor end
j. Consignee name and address

10.0 Storage and Shipping

10.1 Conductor reels/drums should be stored and shipped upright, **NOT** on their side.

10.2 Both cable ends should be sealed to prevent the entrance of moisture, on each reel unit.

10.3 10.4 For shipment, each unit shall be securely packaged and wrapped to avoid damage and for safe handling.

11.0 Technical Data Schedule

Conductors: Bare Overhead Aluminum Conductors			
Bidder:			
Item No:			
Code Name:			
#	Description	Unit	Vendor Proposed Values
	Standard		
1	Standard(s) to which conductor is manufactured		
	Conductor Size		
2	Number and diameter or Aluminum Strands	No./ mm	
3	Diameter of steel strands	No. / mm	
4	Total cross sectional area of conductor	mm2	
5	Overall diameter of bare conductor	mm	
	Properties of Wire		
6	Ultimate breaking load of conductor	kg	
7	Rated Tensile Strength	kg	
8	Equivalent modulus of elasticity	kg/mm2	
9	Maximum stress	kg/mm2	
10	Equivalent coefficient of linear expansion per degrees Celsius		
11	Current Rating	Amps	
12	Maximum continuous current carrying capacity of conductor at ambient 50 degrees Celsius	Amps	
13	Conductor Temperature for condition at item 12	degrees Celsius	
14	Short time overload current capacity of conductor at ambient 50oC		
	1hour duration	Amps	
	3 hour duration	Amps	
15	Resistance of conductor per km at 75 degrees Celsius	Ω/km	
16	Maximum DC resistance per kM at 20oC	Ω/km	

17	Maximum AC resistance per km at 80oC	Ω/km	
18	Reactance per KM	Ω/km	
19	Weight of conductor per km		
	Construction		
20	Lay ratio for Aluminium Conductor		
	Min		
	Max		
21	Lay ratio for Steel Conductor		
	Min		
	Max		
	Test Report Checklist		
22	Conductor Resistance Test included	yes/no	
23	Measurement of lay ratio/direction of lay included	yes/no	
24	Wrapping Test included	yes/no	
25	Tensile strength included	yes/no	
26	Measurement of overall diameter included	yes/no	
27	Measurement of individual wires included		
	Packaging and Shipping		
28	Drum Type		
29	Length of conductor	meter	
30	Dimensions of Drum		
31	Gross weight	kg	
32	Net weight	kg	
33	Marking as per specification		